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Content List of 50th IEEE Conference on Decision and Control and European Control Conference

Technical Program for Monday December 12, 2011

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Chair: Chong, Edwin K. P.	Colorado State Univ.
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Ljung, Lennart	Linkoping Univ.
MoA01	Orange
Management and Control of Customer Side of the Meter Resources and Load (Invited Session)	
Chair: Caramanis, Michael C.	Boston Univ.
Co-Chair: Stoustrup, Jakob	Aalborg Univ.
Organizer: Caramanis, Michael C.	Boston Univ.
Organizer: Baillieul, John	Boston Univ.
Organizer: Stoustrup, Jakob	Aalborg Univ.
Organizer: Annaswamy, Anuradha	Massachusetts Inst. of Tech.
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Giannakis, Georgios B.	Univ. of Minnesota
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Turitsyn, Konstantin	Massachusetts Inst. of Tech.
Backhaus, Scott	Los Alamos National Lab.
Ananyev, Maxim	New Ec. School
Chertkov, Michael	Los Alamos National Lab.
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Kalsi, Karanjit	Pacific Northwest National Lab.
Chassin, Forrest	Pacific Northwest National Lab.
Chassin, David	Pacific Northwest National Lab.
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Li, Binbin	Boston Univ.
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Kizilkale, Arman C.	McGill Univ.
Mannor, Shie	Tech.
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Chair: Ding, Zhengtao	The Univ. of Manchester
Co-Chair: Lemos, Joao M.	Inesc-id
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Martins da Silva, Margarida
Mendonça, Teresa
Wigren, Torbjorn

Uppsala Univ.
Fac. de Ciências da Univ. do Porto
Uppsala Univ.

10:20-10:40

MoA02.2

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Yihun, Yimesker
Anugolu, Madhavi
Creelman, Jim
Urfer, Alex
Naidu, D. Subbaram
Schoen, Marco

Idaho State Univ.
Idaho State Univ.
Idaho State Univ.
Idaho State Univ.
Idaho State Univ.
Idaho State Univ.
Idaho State Univ.
Idaho State Univ.
Idaho State Univ.

10:40-11:00

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Kumar, Gautam
Aggarwal, Vikram
Thakor, Nitish
Schieber, Marc H.
Kothare, Mayuresh V.

Lehigh Univ.
Johns Hopkins Univ.
Johns Hopkins Univ.
Univ. of Rochester Medical Center
Quanser

11:00-11:20

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Kovács, Levente
Szalay, Peter
Benyó, Balázs
Chase, J. Geoffrey

Budapest Univ. of Tech. and Ec.
Budapest Univ. of Tech. and Ec.
Budapest Univ. of Tech. and Ec.
Univ. of Canterbury

11:20-11:40

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Pinheiro, Joao
Lemos, Joao M.
Vinga, Susana

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Inesc-id
INESC-ID

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Ding, Zhengtao
Ton That, Long

The Univ. of Manchester
The Univ. of Manchester

MoA03

Columbia

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Chair: Spurgeon, Sarah K.
Co-Chair: Srivastava, Vaibhav

Univ. of Kent
Univ. of California Santa Barbara

10:00-10:20

MoA03.1

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Han, Xiaoran
Fridman, Emilia
Spurgeon, Sarah K.

Univ. of Kent
Tel-Aviv Univ.
Univ. of Kent

10:20-10:40

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Srivastava, Vaibhav
Bullo, Francesco

Univ. of California Santa Barbara
Univ. California at Santa Barbara

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Zouari, Talel Pekpe, Komi Midzodzi Cocquempot, Vincent Ksouri, Moufida	Univ. des Sciences Tech. de Lille I, LAGISFRE 330 Univ. de Lille 1 Lille 1 Univ. Ec. Nationale des Ingénieurs de Tunis, ACS.
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Chair: Jiang, Zhong-Ping Co-Chair: Lewis, Frank L. Organizer: Jiang, Zhong-Ping Organizer: Lewis, Frank L.	Pol. Inst. NYU Univ. of Texas at Arlington Pol. Inst. NYU Univ. of Texas at Arlington
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Jiang, Yu Jiang, Zhong-Ping	Pol. Inst. of New York Univ. Pol. Inst. NYU
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Ferrari, Silvia Anderson, Michael S. Fierro, Rafael Lu, Wenjie	Duke Univ. Univ. of New Mexico Univ. of New Mexico Duke Univ.
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Vamvoudakis, Kyriakos Lewis, Frank L.	Univ. of Texas at Arlington Univ. of Texas at Arlington
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Meyn, Sean	Univ. of Illinois

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Chair: Materassi, Donatello		Univ. of Minnesota
Co-Chair: Coleman, Todd		Univ. of Illinois
Organizer: Materassi, Donatello		Univ. of Minnesota
Organizer: Coleman, Todd		Univ. of Illinois
Organizer: Giarrè, Laura		Univ. Di Palermo
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Burke, James V.		Univ. of Washington
Chiuso, Alessandro		Univ. di Padova
Pillonetto, Gianluigi		Univ. of Padova
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Materassi, Donatello		Univ. of Minnesota
Salapaka, Murti V.		Univ. of Minnesota, Minneapolis
Giarrè, Laura		Univ. Di Palermo
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Quinn, Christopher		Univ. of Illinois at Urbana Champaign
Kiyavash, Negar		Univ. of Illinois, Urbana-Champaign
Coleman, Todd		Univ. of California, San Diego
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Molazem Sanandaji, Borhan		Colorado School of Mines
Vincent, Tyrone L.		Colorado School of Mines
Wakin, Michael		Colorado School of Mines
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Goyal, Siddharth		Univ. of Florida
Liao, Chenda		Univ. of Florida
Barooah, Prabir		Univ. of Florida
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Tan, Vincent		Univ. of Wisconsin-Madison
Willsky, Alan S.		MIT
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Co-Chair: Canudas de Wit, Carlos		CNRS, GIPSA-Lab.
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Farhadi, Alireza		Univ. of Melbourne
Canudas de Wit, Carlos		CNRS, GIPSA-Lab.
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Yu, Han	Univ. of Notre Dame
Antsaklis, Panos J.	Univ. of Notre Dame
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Antsaklis, Panos J.	Univ. of Notre Dame
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Teixeira, André	KTH - Royal Inst. of Tech.
Sandberg, Henrik	KTH Royal Inst. of Tech.
Papachristodoulou, Antonis	Univ. of Oxford
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Tavassoli, Babak	K.N. Toosi Univ. of Tech.
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Ye, Hao	Tsinghua Univ.
MoA07	Escambia
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Co-Chair: Hovakimyan, Naira	Univ. of Illinois, Urbana-Champaign
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Bauso, Dario	Univ. di Palermo
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Khargonekar, Pramod P.	Univ. of Florida
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Fung, Carol	Univ. of Waterloo
Boutaba, Raouf	Univ. of Waterloo
Basar, Tamer	Univ. of Illinois, Urbana-Champaign
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Ganesh, Ayalvadi	Univ. of Bristol
D., Manjunath	IIT Bombay, India
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Bogdan, Paul	Carnegie Mellon Univ.
Marculescu, Radu	Carnegie Mellon Univ.
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Bhattacharya, Sourabh	Univ. of Illinois, Urbana-Champaign
Basar, Tamer	Univ. of Illinois, Urbana-Champaign

MoA08		Flagler
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Chair: Pereira / FEUP, Fernando Lobo		Porto Univ.
Co-Chair: Sanchez, Edgar N.		CINVESTAV
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Xu, Yunjun		Univ. of Central Florida
Li, Ni		Univ. of Central Florida
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Banavar, Ravi N.		Indian Inst. of Tech.
Chang, Dong Eui		Univ. of Waterloo
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Kanazawa, Masao		Tokyo Inst. of Tech.
Sekiguchi, Kazuma		Tokyo Inst. of Tech.
Sampei, Mitsuji		Tokyo Inst. of Tech.
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Sanchez, Edgar N.		CINVESTAV
Loukianov, Alexander G.		CINVESTAV IPN GDI
Navarro Lopez, Eva Maria		Univ. of Manchester
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Co-Chair: Wang, Yuan		Florida Atlantic Univ.
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Majumdar, Rupak		UCLA
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Masi, Alfio		Univ. di Siena
Valmorbida, Giórgio		Univ. degli Studi di Roma "Tor Vergata"
Zaccarian, Luca		Univ. di Roma, Tor Vergata
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Wang, Yuan	Florida Atlantic Univ.
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Astolfi, Alessandro	Imperial Coll. & Univ. of Rome
Praly, Laurent	MINES ParisTech
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Casagrande, Daniele	Univ. of Udine
Astolfi, Alessandro	Imperial Coll. & Univ. of Rome
Ortega, Romeo	LSS-SUPELEC
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Chair: Hoagg, Jesse B.	Univ. of Kentucky
Co-Chair: Tesi, Pietro	Univ. of Florence
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van der Schaar, Mihaela	Univ. of California Los Angeles
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Astolfi, Alessandro	Imperial Coll. & Univ. of Rome
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Tan, Xiaobo	Michigan State Univ.
Khalil, Hassan K.	Michigan State Univ.
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Demetriou, Michael A.	Worcester Pol. Inst.
Nestinger, Stephen	Worcester Pol. Inst.
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Battistelli, Giorgio	Univ. of Florence
Mosca, Edoardo	Univ. of Florence
Tesi, Pietro	Univ. of Florence
MoA11	Indian River
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Chair: Ricker, S. Laurie	Mount Allison Univ.
Co-Chair: Giua, Alessandro	Univ. di Cagliari
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Sadid, Md. Waselul Haque	Concordia Univ.

Ricker, S. Laurie Hashtrudi Zad, Shahin	Mount Allison Univ. Concordia Univ.
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Giua, Alessandro	Univ. di Cagliari
Mahulea, Cristian	Univ. of Zaragoza
Seatzu, Carla	Univ. of Cagliari
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Hadjicostis, Christoforos	Univ. of Cyprus
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S. Farahani, Samira	Delft Univ. of Tech.
van den Boom, Ton J. J.	Delft Univ. of Tech.
De Schutter, Bart	Delft Univ. of Tech.
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Aguilar, Cesar O	Naval Postgraduate School
Krener, Arthur J	Naval Postgraduate School
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Piedrafitra, Ramón	Univ. of Zaragoza
Villarroel, Jose Luis	Univ. of Zaragoza
MoA12	Lake
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Chair: Baglietto, Marco	Univ. of Genova
Co-Chair: Daafouz, Jamal	CRAN, UMR CNRS - Nancy Univ.
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Cavichioli Gonzaga, Carlos Alberto	CRAN - ENSEM - Nancy Univ.
Jungers, Marc	CNRS - Nancy Univ. ENSEM
Daafouz, Jamal	CRAN, UMR CNRS - Nancy Univ.
Castelan, Eugenio B.	Univ. Federal de Santa Catarina
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Liberzon, Daniel	Univ. of Illinois, Urbana-Champaign
Trenn, Stephan	Univ. of Würzburg
Wirth, Fabian R.	Univ. Würzburg
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El Hachemi, Fouad	CRAN CNRS Nancy Univ.
Sigalotti, Mario	INRIA Nancy - Grand Est
Daafouz, Jamal	CRAN, UMR CNRS - Nancy Univ.
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Baglietto, Marco	Univ. of Genova
Battistelli, Giorgio	Univ. of Florence
Tesi, Pietro	Univ. of Genoa
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Zhu, Guangwei		Purdue Univ.
Shen, Jinglai		Univ. of Maryland Baltimore County
Hu, Jianghai		Purdue Univ.
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Tanwani, Aneel		Univ. of Illinois at Urbana-Champaign
Liberzon, Daniel		Univ. of Illinois, Urbana-Champaign
MoA13		Manatee
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Chair: Karcnias, Nicos		City Univ.
Co-Chair: Schmid, Robert		The Univ. of Melbourne
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Darbha, Swaroop		Texas A & M Univ.
Bhattacharyya, Shankar P.		Texas A & M Univ.
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Patra, Sourav		Univ. of Manchester
Lanzon, Alexander		Univ. of Manchester
Petersen, Ian		Univ. of New South Wales at the Australian Defence Force Ac
10:40-11:00		MoA13.3
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Karcnias, Nicos		City Univ.
Halikias, George		City Univ.
11:20-11:40		MoA13.5
<i>The Role of Nonminimum Phase Zeros in the Transient Response of Multivariable Systems</i> , pp. 471-475.		
Schmid, Robert		The Univ. of Melbourne
Pandey, Amit		Univ. of Auckland, New Zealand
11:40-12:00		MoA13.6
<i>Data-Driven IMC for Non-Minimum Phase Systems - Laguerre Expansion Approach</i> , pp. 476-481.		
Nguyen, Hien Thi		Kanazawa Univ.
Kaneko, Osamu		Kanazawa Univ.
Yamamoto, Shigeru		Kanazawa Univ.
MoA14		Sarasota
Predictive Control for Linear Systems I (Regular Session)		
Chair: Findeisen, Rolf		OVG Univ. Magdeburg
Co-Chair: Alessandri, Angelo		Univ. of Genoa
10:00-10:20		MoA14.1
<i>Input-To-State Stabilization of Low-Complexity Model Predictive Controllers for Linear Systems</i> , pp. 482-488.		
Schildbach, Georg		ETH Zurich
Zeilinger, Melanie, N		ETH Zurich
Morari, Manfred		ETH Zurich
Jones, Colin Neil		EPFL, Switzerland

10:20-10:40	MoA14.2
<i>Integer Tree-Based Search and Mixed-Integer Optimal Control of Distribution Chains</i> , pp. 489-494.	
Alessandri, Angelo	Univ. of Genoa
Gaggero, Mauro	National Res. Council of Italy
Tonelli, Flavio	Univ. of Genoa
10:40-11:00	MoA14.3
<i>Improved Feed-Forward Command Governor Strategies for Discrete-Time Time-Invariant Linear Systems</i> , pp. 495-500.	
Casavola, Alessandro	Univ. Della Calabria
Garone, Emanuele	Univ. Libre de Bruxelles
Tedesco, Francesco	Univ. della Calabria
11:00-11:20	MoA14.4
<i>Fast Predictive Control of Linear Systems Combining Nesterov's Gradient Method and the Method of Multipliers</i> , pp. 501-506.	
Koegel, Markus	OVG Univ. Magdeburg
Findeisen, Rolf	OVG Univ. Magdeburg
11:20-11:40	MoA14.5
<i>Solving Constrained LQR Problems by Eliminating the Inputs from the QP</i> , pp. 507-512.	
Mancuso, Giulio	Scuola Superiore Sant'Anna
Kerrigan, Eric C.	Imperial Coll. London
11:40-12:00	MoA14.6
<i>Learning a Feasible and Stabilizing Explicit Model Predictive Control Law by Robust Optimization</i> , pp. 513-519.	
Domahidi, Alexander	ETH Zurich
Zeilinger, Melanie, N	ETH Zurich
Morari, Manfred	ETH Zurich
Jones, Colin Neil	EPFL, Switzerland
MoA15	Union
Formal Methods in Control: Theory I (Invited Session)	
Chair: Mazo Jr., Manuel	INCAS3 / Univ. of Groningen
Co-Chair: Julius, Agung	Rensselaer Pol. Inst.
Organizer: Mazo Jr., Manuel	INCAS3 / Univ. of Groningen
Organizer: Julius, Agung	Rensselaer Pol. Inst.
Organizer: Ozay, Necmiye	California Inst. of Tech.
10:00-10:20	MoA15.1
<i>Safety Controller Synthesis for Switched Systems Using Multi-Scale Symbolic Models (I)</i> , pp. 520-525.	
Camara, Javier	Univ. of Coimbra
Girard, Antoine	Univ. Joseph Fourier
Goessler, Gregor	INRIA
10:20-10:40	MoA15.2
<i>On Infinite-Horizon Probabilistic Properties and Stochastic Bisimulation Functions (I)</i> , pp. 526-531.	
Tkachev, Ilya	Delft Univ. of Tech. The Netherlands
Abate, Alessandro	TU Delft
10:40-11:00	MoA15.3
<i>MDP Optimal Control under Temporal Logic Constraints (I)</i> , pp. 532-538.	
Ding, Xu Chu	Boston Univ.
Smith, Stephen L.	Univ. of Waterloo
Belta, Calin	Boston Univ.
Rus, Daniela	MIT
11:00-11:20	MoA15.4
<i>Optimal Design of a Class of Hybrid Systems with Uncertain Parameters (I)</i> , pp. 539-544.	
Mathew, George	United Tech. Res. Centre, Inc., Berkeley, CA
Pinto, Alessandro	United Tech. Res. Center, Inc
11:20-11:40	MoA15.5
<i>Safety Control of Piece-Wise Continuous Order Preserving Systems (I)</i> , pp. 545-551.	

Ghaemi, Reza Del Vecchio, Domitilla	MIT Massachusetts Institute of Tech.
11:40-12:00	MoA15.6
<i>Alternating Approximately Bisimilar Symbolic Models for Nonlinear Control Systems Affected by Disturbances (I)</i> , pp. 552-557.	
Borri, Alessandro	Univ. of L'Aquila
Pola, Giordano	Univ. of L'Aquila
Di Benedetto, M. Domenica	Univ. of L'Aquila
MoA16	Palm Beach
Mission Planning and Autonomous Navigation (Invited Session)	
Chair: Rathinam, Sivakumar	Texas A & M Univ.
Co-Chair: Girard, Anouck	Univ. of Michigan, Ann Arbor
Organizer: Rathinam, Sivakumar	Texas A & M Univ.
10:00-10:20	MoA16.1
<i>Vision-Based Local-Level Frame Mapping and Planning in Spherical Coordinates for Miniature Air Vehicles (I)</i> , pp. 558-563.	
Yu, Huili	Brigham Young Univ.
Beard, Randy	Brigham Young Univ.
10:20-10:40	MoA16.2
<i>Multi-Agent Path Planning for an Unknown Number of Targets Over Dynamic Space Partitions (I)</i> , pp. 564-569.	
Wood, Jared	Univ. of California, Berkeley
Hedrick, Karl	Univ. of California at Berkeley
10:40-11:00	MoA16.3
<i>Communication-Constrained Distributed Task Assignment (I)</i> , pp. 570-577.	
Jackson, Justin	Univ. of Michigan
Faied, Mariam	Fayoum Univ.
Kabamba, Pierre T.	Univ. of Michigan
Girard, Anouck	Univ. of Michigan, Ann Arbor
11:00-11:20	MoA16.4
<i>Mission Planning in Unstructured Environments: A Reinforcement Learning Approach (I)</i> , pp. 578-583.	
Basso, Brandon	UC Berkeley
Durrant-Whyte, Hugh	Univ. of Sydney
Hedrick, Karl	Univ. of California at Berkeley
11:20-11:40	MoA16.5
<i>An Asymptotically Optimal Algorithm for Pickup and Delivery Problems (I)</i> , pp. 584-590.	
Treleven, Kyle	Massachusetts Inst. of Tech.
Pavone, Marco	California Inst. of Tech.
Frazzoli, Emilio	Massachusetts Inst. of Tech.
11:40-12:00	MoA16.6
<i>Formation Control with Collision Avoidance (I)</i> , pp. 591-596.	
Bencatel, Ricardo	Univ. of Porto - School of Engineering
Faied, Mariam	Fayoum Univ.
Sousa, Joao	Univ. Porto - Faculdade Engenharia
Girard, Anouck	Univ. of Michigan, Ann Arbor
MoA17	Alachua
Distributed Parameter Systems I (Invited Session)	
Chair: Demetriou, Michael A.	Worcester Pol. Inst.
Co-Chair: McEneaney, William	Univ. of California, San Diego
Organizer: Demetriou, Michael A.	Worcester Pol. Inst.
10:00-10:20	MoA17.1
<i>Adaptive Consensus Filters for Collocated Infinite Dimensional Systems (I)</i> , pp. 597-602.	
Demetriou, Michael A.	Worcester Pol. Inst.

10:20-10:40	MoA17.2
<i>A Linear Multi-Agent Systems Approach to Diffusively Coupled Piecewise Affine Systems: Delay Robustness (I)</i> , pp. 603-608.	
Kashima, Kenji	Tokyo Inst. of Tech.
Papachristodoulou, Antonis	Univ. of Oxford
Allgower, Frank	Univ. of Stuttgart
10:40-11:00	MoA17.3
<i>Semidiscrete Approximation Schemes for LQR Control of Equations in Thermoelasticity (I)</i> , pp. 609-614.	
Fabiano, Richard H.	Univ. of North Carolina at Greensboro
11:00-11:20	MoA17.4
<i>A Max-Plus Based Fundamental Solution for a Class of Infinite Dimensional Riccati Equations (I)</i> , pp. 615-620.	
Dower, Peter M.	The Univ. of Melbourne
McEaney, William	Univ. of California, San Diego
11:20-11:40	MoA17.5
<i>Compact Sets in the Graph Topology and Applications to Approximation of System Design (I)</i> , pp. 621-626.	
Yamamoto, Yutaka	Kyoto Univ.
Vidyasagar, Mathukumalli	The Univ. of Texas at Dallas
11:40-12:00	MoA17.6
<i>Convergence of H-Infinity-Optimal Actuator Location (I)</i> , pp. 627-632.	
Kasinathan, Dhanaraja	Univ. of Waterloo
Morris, Kirsten	Univ. of Waterloo
MoA18	Baker
Robust Control I (Regular Session)	
Chair: Lesecq, Suzanne	CEA
Co-Chair: Poulsen, Niels Kjølstad	Tech. Univ. of Denmark
10:00-10:20	MoA18.1
<i>Cascade Control of the Moto-Compressor of a PEM Fuel Cell Via Second Order Sliding Mode</i> , pp. 633-638.	
Matraji, Imad	UTBM
Laghrouche, Salah	UTBM
Wack, Maxime	UTBM
10:20-10:40	MoA18.2
<i>Robustness Preserving Anti-Windup for SISO Systems</i> , pp. 639-644.	
Morales, Rafael Mauricio	Univ. of Leicester
Heath, William Paul	Univ. of Manchester
Li, Guang	Univ. of Exeter
10:40-11:00	MoA18.3
<i>A Mu-Synthesis Approach to Robust Control of a Wind Turbine</i> , pp. 645-650.	
Mirzaei, Mahmood	Tech. Univ. of Denmark
Niemann, Henrik	Tech. Univ. of Denmark
Poulsen, Niels Kjølstad	Tech. Univ. of Denmark
11:00-11:20	MoA18.4
<i>Control Techniques for High-Speed Dynamic Mode Imaging in Atomic Force Microscopes</i> , pp. 651-656.	
Mohan, Gayathri	Univ. of Illinois at Urbana Champaign
Lee, Chibum	Univ. of Illinois, Urbana-Champaign
Salapaka, Srinivasa	Univ. of Illinois
11:20-11:40	MoA18.5
<i>Optimal and Robust Saturated Control for a Clock Generator</i> , pp. 657-662.	
Albea, Carolina	CEA LETI-MINATEC
Lesecq, Suzanne	CEA
Puschini, Diego	CEA-Leti
11:40-12:00	MoA18.6
<i>Low-Order Control Design for Chatter Suppression in High-Speed Milling</i> , pp. 663-668.	

van Dijk, Niels
 Van De Wouw, Nathan
 Nijmeijer, Hendrik

Philips Innovation Services
 Eindhoven Univ. of Tech.
 Eindhoven Univ. of Tech.

MoA19		Bay
Robotics I (Regular Session)		
Chair: Choi, Youngjin		Hanyang Univ.
Co-Chair: Gregg, Robert D.		Northwestern Univ.
10:00-10:20		MoA19.1
<i>Controlled Reduction of a Five-Link 3D Biped with Unactuated Yaw</i> , pp. 669-674.		
Gregg, Robert D.		Northwestern Univ.
10:20-10:40		MoA19.2
<i>A Gait Generation Method for the Compass-Type Biped Robot on Slopes Via Discrete Mechanics</i> , pp. 675-681.		
Kai, Tatsuya		Kyushu Univ.
Shintani, Takeshi		Kyocera Corp.
10:40-11:00		MoA19.3
<i>Compass Gait Revisited: A Human Data Perspective with Extensions to Three Dimensions</i> , pp. 682-689.		
Sinnet, Ryan		Texas A&M Univ.
Powell, Matthew		Texas A&M Univ.
Jiang, Shu		Texas A&M Univ.
Ames, Aaron		Texas A&M Univ.
11:00-11:20		MoA19.4
<i>Exploiting Elastic Energy Storage for Cyclic Manipulation: Modeling, Stability, and Observations for Dribbling</i> , pp. 690-697.		
Haddadin, Sami		German Aerospace Center
Krieger, Kai		German Aerospace Center
Albu-Schaeffer, Alin		German Aerospace Center (DLR)
11:20-11:40		MoA19.5
<i>New Robotic Motion Generation Using Digital Convolution with Physical System Limitation</i> , pp. 698-703.		
Lee, Geon		Hanyang Univ. South Korea
Yi, Byung-Ju		Hanyang Univ.
Kim, Doik		Korea Inst. of Science and Tech. (KIST)
Choi, Youngjin		Hanyang Univ.
11:40-12:00		MoA19.6
<i>Least Squares Temporal Difference Actor-Critic Methods with Applications to Robot Motion Control</i> , pp. 704-709.		
Moazzez Estanjini, Reza		Boston Univ.
Ding, Xu Chu		Boston Univ.
Lahijanian, Morteza		Boston Univ.
Wang, Jing		Boston Univ.
Belta, Calin		Boston Univ.
Paschalidis, Ioannis		Boston Univ.
MoA20		Broward
Stochastic Systems I (Regular Session)		
Chair: Vidyasagar, Mathukumalli		The Univ. of Texas at Dallas
Co-Chair: Fagiano, Lorenzo		Pol. di Torino/Univ. California at Santa Barbara
10:00-10:20		MoA20.1
<i>A Metric between Probability Distributions on Finite Sets of Different Cardinalities</i> , pp. 710-715.		
Vidyasagar, Mathukumalli		The Univ. of Texas at Dallas
10:20-10:40		MoA20.2
<i>Optimal Order Reduction of Probability Distributions by Maximizing Mutual Information</i> , pp. 716-721.		
Vidyasagar, Mathukumalli		The Univ. of Texas at Dallas
10:40-11:00		MoA20.3

Asymptotic Bias of Stochastic Gradient Search, pp. 722-727.

Tadic, Vladislav
Doucet, Arnaud

Univ. of Bristol
Univ. of British Columbia

11:00-11:20

MoA20.4

On the Guaranteed Accuracy of Polynomial Chaos Expansions, pp. 728-733.

Fagiano, Lorenzo
Khammash, Mustafa H.
Novara, Carlo

Pol. di Torino/Univ. California at Santa Barbara
Univ. of California at Santa Barbara
Pol. di Torino

11:20-11:40

MoA20.5

On Feedback Design and Risk Allocation in Chance Constrained Control, pp. 734-739.

Vitus, Michael P.
Tomlin, Claire J.

Stanford Univ.
UC Berkeley

11:40-12:00

MoA20.6

Stabilizing Composite Control for Systems Modeled by Singularly Perturbed Ito Differential Equations with Two Small Time Constants, pp. 740-745.

Dragan, Vasile
Mukaidani, Hiroaki

Romanian Acad.
Hiroshima Univ.

MoA21

Brevard

Agents and Autonomous Systems I (Regular Session)

Chair: Leonard, Naomi Ehrich
Co-Chair: Sakurama, Kazunori

Princeton Univ.
Kyoto Univ.

10:00-10:20

MoA21.1

Stabilization of Rigid Formations with Direction-Only Constraints, pp. 746-752.

Bishop, Adrian
Shames, Iman
Anderson, Brian D.O.

Royal Inst. of Tech. (KTH)
The Royal Inst. of Tech.
Australian National Univ.

10:20-10:40

MoA21.2

Nonuniform Coverage Control on the Line, pp. 753-758.

Leonard, Naomi Ehrich
Olshevsky, Alexander

Princeton Univ.
Princeton Univ.

10:40-11:00

MoA21.3

Controllability of Diffusively-Coupled Multi-Agent Systems with General and Distance Regular Coupling Topologies, pp. 759-764.

Zhang, Shuo
Camlibel, Kanat
Cao, Ming

Univ. of Groningen
Univ. of Groningen
Univ. of Groningen

11:00-11:20

MoA21.4

Formation Control with Velocity Assignment for Second-Order Multi-Agent Systems with Heterogeneous Time-Delays, pp. 765-770.

Sakurama, Kazunori
Nakano, Kazushi

Kyoto Univ.
The Univ. of Electro-Communications

11:20-11:40

MoA21.5

Distributed Containment Control of Linear Multi-Agent Systems with Multiple Leaders and Reduced-Order Controllers, pp. 771-776.

Li, Zhongkui
Ren, Wei
Liu, Xiangdong
Xie, Lihua

Beijing Inst. of Tech.
Utah State Univ.
Beijing Inst. of Tech.
Nanyang Tech. Univ.

11:40-12:00

MoA21.6

Synchronizing Clocks in Distributed Networks, pp. 777-782.

Xia, Weiguo
Cao, Ming

Univ. of Groningen
Univ. of Groningen

MoA22	Bradford
System Identification I (Regular Session)	
Chair: Hjalmarsson, Håkan	Royal Inst. of Tech.
Co-Chair: Tóth, Roland	Delft Univ. of Tech.
10:00-10:20	MoA22.1
<i>Compressive System Identification in the Linear Time-Invariant Framework</i> , pp. 783-790.	
Tóth, Roland	Delft Univ. of Tech.
Molazem Sanandaji, Borhan	Colorado School of Mines
Poolla, Kameshwar	Univ. of California at Berkeley
Vincent, Tyrone L.	Colorado School of Mines
10:20-10:40	MoA22.2
<i>Compressive System Identification of LTI and LTV ARX Models</i> , pp. 791-798.	
Molazem Sanandaji, Borhan	Colorado School of Mines
Vincent, Tyrone L.	Colorado School of Mines
Wakin, Michael	Colorado School of Mines
Tóth, Roland	Delft Univ. of Tech.
Poolla, Kameshwar	Univ. of California at Berkeley
10:40-11:00	MoA22.3
<i>Informative Data and Identifiability in LPV-ARX Prediction-Error Identification</i> , pp. 799-804.	
Dankers, Arne	Delft Univ. of Tech.
Tóth, Roland	Delft Univ. of Tech.
Heuberger, Peter S.C.	Delft Univ. of Tech.
Bombois, Xavier	Delft Univ. of Tech.
Van den Hof, Paul M.J.	Delft Univ. of Tech.
11:00-11:20	MoA22.4
<i>On Optimal Input Design in System Identification for Model Predictive Control</i> , pp. 805-810.	
Larsson, Christian A.	KTH Royal Inst. of Tech.
Annergren, Mariette Jenny Erika	The Royal Inst. of Tech. Stockholm
Hjalmarsson, Håkan	Royal Inst. of Tech.
11:20-11:40	MoA22.5
<i>Input Design Using Cylindrical Algebraic Decomposition</i> , pp. 811-817.	
Hjalmarsson, Håkan	Royal Inst. of Tech.
Egebrand, Freja	Royal Inst. of Tech. KTH
11:40-12:00	MoA22.6
<i>Identification of a Flexible Robot Manipulator Using a Linear Parameter-Varying Descriptor State-Space Structure</i> , pp. 818-823.	
Mercère, Guillaume	Univ. of Poitiers
Lovera, Marco	Pol. di Milano
Laroche, Edouard	Strasbourg Univ.
MoSP1	Bonnet Creek Ballroom III & VI
Decentralized Activation and Decision-Making in Networks of Biosensors (Semiplenary Session)	
Chair: Balakrishnan, Venkataramanan	Purdue Univ.
13:30-14:20	MoSP1.1
<i>Decentralized Activation and Decision-Making in Networks of Biosensors*</i> .	
Krishnamurthy, Vikram	Univ. of British Columbia
MoSP2	Bonnet Creek Ballroom IX & XII
Taming Dr. Frankenstein: Contract-Based Design for Cyberphysical Systems (Semiplenary Session)	
Chair: Stoustrup, Jakob	Aalborg Univ.
13:30-14:20	MoSP2.1
<i>Taming Dr. Frankenstein: Contract-Based Design for Cyberphysical Systems*</i> .	

MoB01		Orange
Energy Systems I (Regular Session)		
Chair: Hoagg, Jesse B.		Univ. of Kentucky
Co-Chair: Roozbehani, Mardavij		Massachusetts Inst. of Tech.
14:30-14:50		MoB01.1
<i>Retrospective Cost Adaptive Control for a Ground Tethered Energy System</i> , pp. 824-829.		
Isaacs, Matthew		Univ. of Kentucky
Hoagg, Jesse B.		Univ. of Kentucky
Hussein, Islam		Worcester Pol. Inst.
Olinger, David		Worcester Pol. Inst.
14:50-15:10		MoB01.2
<i>Explicit Coordination for MPC-Based Distributed Control with Application to Hydro-Power Valleys</i> , pp. 830-835.		
Zarate Florez, Jennifer		INPG/ EDF R&D
Martinez Molina, John Jairo		GIPSA-Lab. GRENOBLE-INP
Besancon, Gildas		GIPSA-Lab. Grenoble INP
Faille, Damien		Electricité de France
15:10-15:30		MoB01.3
<i>Clean High-Energy Density Renewable Power Generation Systems with Soft-Switching Sliding Mode Control Laws</i> , pp. 836-841.		
Lyshevski, Sergey		Rochester Inst. of Tech.
Smith, Trevor		Harris RF Communications
15:30-15:50		MoB01.4
<i>Optimal Utilization of Storage and the Induced Price Elasticity of Demand in the Presence of Ramp Constraints</i> , pp. 842-847.		
Faghih, Ali		MIT
Roozbehani, Mardavij		Massachusetts Inst. of Tech.
Dahleh, Munther A.		Massachusetts Inst. of Tech.
15:50-16:10		MoB01.5
<i>Flexible and Cost Efficient Power Consumption Using Economic MPC - a Supermarket Refrigeration Benchmark (I)</i> , pp. 848-854.		
Hovgaard, Tobias Gybel		Danfoss A/S
Larsen, Lars Finn Sloth		Danfoss A/S
Jørgensen, John Bagterp		Tech. Univ. of Denmark
MoB02		Dixie
Biomedical Systems II (Regular Session)		
Chair: Naidu, D. Subbaram		Idaho State Univ.
Co-Chair: Soltesz, Kristian		Lund Univ.
14:30-14:50		MoB02.1
<i>Individualized PID Control of Depth of Anesthesia Based on Patient Model Identification During the Induction Phase of Anesthesia</i> , pp. 855-860.		
Soltesz, Kristian		Lund Univ.
Hahn, Jin-Oh		Univ. of Alberta
Dumont, Guy A.		Univ. of British Columbia
Ansermino, John Mark		Univ. of British Columbia
14:50-15:10		MoB02.2
<i>Implementation of Semg-Based Real-Time Embedded Adaptive Finger Force Control for a Prosthetic Hand</i> , pp. 861-866.		
Potluri, Chandrasekhar		Idaho State Univ.
Anugolu, Madhavi		Idaho State Univ.
Yihun, Yimesker		Idaho State Univ.
Kumar, Parmod		Idaho State Univ.
Chiu, Steve		Idaho State Univ.
Schoen, Marco		Idaho State Univ.

Naidu, D. Subbaram	Idaho State Univ.
15:10-15:30	MoB02.3
<i>An Improved Strategy for NeuroMuscular Blockade Control with Parameter Uncertainty</i> , pp. 867-872.	
Almeida, Juliana	Faculdade de Ciências da Univ. do Porto
Mendonça, Teresa	Fac. de Ciências da Univ. do Porto
Rocha, Paula	Univ. of Oporto
15:30-15:50	MoB02.4
<i>Bounded Control of an Actuated Lower Limb Orthosis</i> , pp. 873-878.	
Rifai, Hala	Univ. Paris-Est, Créteil (UPEC)
Hassani, Walid	Univ. Paris-Est, Créteil (UPEC)
Mohammed, Samer	Univ. of Paris Est Créteil (UPEC)
Amirat, Yacine	Univ. of Paris Est Créteil (UPEC)
15:50-16:10	MoB02.5
<i>Complex Dynamic Phenomena in a Low-Order Model of Non-Basal Testosterone Regulation</i> , pp. 879-884.	
Zhusubaliyev, Zhanybai	South West State Univ. (Kursk State Tech. Univ.)
Churilov, Alexander	St.Petersburg State Marine Tech. Univ.
Medvedev, Alexander V.	Uppsala Univ.

MoB03	Columbia
Fault Detection II (Regular Session)	
Chair: Glover, Keith	Univ. of Cambridge
Co-Chair: Campbell, Stephen L	North Carolina State Univ.
14:30-14:50	MoB03.1
<i>An Approach to Data-Driven Design of Feedback Control Systems with Embedded Residual Generation</i> , pp. 885-890.	
Ding, Steven X.	Univ. of Duisburg-Essen
Wang, Yulei	Univ. of Duisburg-Essen
Yang, Ying	Peking Univ.
14:50-15:10	MoB03.2
<i>On Solving Non-Standard H-/H2/H-Infinity Fault Detection Problems</i> , pp. 891-896.	
Glover, Keith	Univ. of Cambridge
Varga, Andras	German Aerospace Center (DLR)
15:10-15:30	MoB03.3
<i>A Distributed Fault Detection Methodology for a Class of Large-Scale Uncertain Input-Output Discrete-Time Nonlinear Systems</i> , pp. 897-902.	
Boem, Francesca	Univ. of Trieste, Trieste, Italy
Ferrari, Riccardo M.G.	Danieli Automation S.p.A.
Parisini, Thomas	Imperial Coll. & Univ. of Trieste
Polycarpou, Marios M.	Univ. of Cyprus
15:30-15:50	MoB03.4
<i>An Optimal Solution to an H-/Hinf Fault Detection Problem</i> , pp. 903-908.	
Zhang, Ze	Imperial Coll. London
Jaimoukha, Imad M.	Imperial Coll. London
15:50-16:10	MoB03.5
<i>Direct Optimization Determination of Auxiliary Test Signal for Linear Problems with Model Uncertainty</i> , pp. 909-914.	
Andjelkovic, Ivan	NCSU
Campbell, Stephen L	North Carolina State Univ.

MoB04	Nassau
Electrical Machine Control I (Regular Session)	
Chair: Chung, Chung Choo	Hanyang Univ.
Co-Chair: Stumper, Jean-François	Tech. Univ. München
14:30-14:50	MoB04.1
<i>Microstepping with Nonlinear Torque Modulation for Position Tracking Control in Permanent Magnet Stepper Motors</i> , pp.	

915-921.	Kim, Wonhee Shin, Donghoon Chung, Chung Choo	Hanyang Hanyang Univ. Seoul, Korea Hanyang Univ.
14:50-15:10		MoB04.2
<i>A Nonlinear Estimator for Dynamical and Robust Sensorless Control of Permanent Magnet Synchronous Machines</i> , pp. 922-927.		
	Stumper, Jean-François Paulus, Dirk Kennel, Ralph	Tech. Univ. München Tech. Univ. München Tech. Univ. München
15:10-15:30		MoB04.3
<i>Interconnection and Composition of Dirac Structures in Lagrange-Dirac Systems</i> , pp. 928-933.		
	Jacobs, Henry Yoshimura, Hiroaki	Caltech Waseda Univ.
15:30-15:50		MoB04.4
<i>Adaptive Extended Kalman Filter for Robust Sensorless Control of PMSM Drives</i> , pp. 934-939.		
	Ciabattini, Lucio Corradini, Maria Letizia Grisostomi, Massimo Ippoliti, Gianluca Longhi, Sauro Orlando, Giuseppe	Univ. Pol. delle Marche Univ. di Camerino Univ. Pol. delle marche Univ. Pol. delle Marche Univ. Pol. delle Marche Univ. Pol. delle Marche
15:50-16:10		MoB04.5
<i>Disturbance Rejection in Repetitive-Control Systems Based on Equivalent-Input-Disturbance Approach</i> , pp. 940-945.		
	Wu, Min Xu, Baogang Cao, Weihua She, Jinhua	Central South Univ. Central south Univ. School of informatinscienceandengineeri Central South Univ. Tokyo Univ. of Tech.
MoB05		Taylor
Mechatronics I (Regular Session)		
	Chair: Mizuno, Takeshi Co-Chair: Mercorelli, Paolo	Saitama Univ. Ostfalia Univ. of Applied Sciences
14:30-14:50		MoB05.1
<i>A Switching Observer for Sensorless Control of an Electromagnetic Valve Actuator for Camless Internal Combustion Engines</i> , pp. 946-951.		
	Mercorelli, Paolo	Ostfalia Univ. of Applied Sciences
14:50-15:10		MoB05.2
<i>Analysis of Friction-Induced Oscillation in Negative Stiffness Control System</i> , pp. 952-957.		
	Shahadat, Mhia Zaglul Mizuno, Takeshi Ishino, Yuji Takasaki, Masaya	Saitama Univ. Saitama Univ. Saitama Univ. Saitama Univ.
15:10-15:30		MoB05.3
<i>Adaptive Approximation-Based Control of Hysteretic Unconventional Actuators</i> , pp. 958-963.		
	Riccardi, Leonardo Naso, David Turchiano, Biagio Janocha, Hartmut	Pol. di Bari - Bari, Italy Pol. di Bari Pol. di bari Saarland Univ.
15:30-15:50		MoB05.4
<i>Inferential Motion Control: Identification and Robust Control with Unmeasured Performance Variables</i> , pp. 964-969.		
	Oomen, Tom Grassens, Erik Hendriks, Ferdinand	Eindhoven Univ. of Tech. Eindhoven Univ. of Tech. Eindhoven Univ. of Tech.

van Herpen, Robbert Bosgra, Okko H.	Eindhoven Univ. of Tech. Delft Univ. of Tech.
15:50-16:10	MoB05.5
<i>Valve's Dynamic Damping Characteristics Measurement and Identification</i> , pp. 970-975.	
Lai, Ru	Beijing Inst. of Tech.
Liu, Xiangdong	Beijing Inst. of Tech.
Wu, Guoqiang	Beijing Inst. of Tech.
MoB06	Jackson
Networked Control Systems II (Regular Session)	
Chair: Leonard, Naomi Ehrich	Princeton Univ.
Co-Chair: Egerstedt, Magnus	Georgia Inst. of Tech.
14:30-14:50	MoB06.1
<i>Distribution of Agents in Heterogeneous Multiagent Systems</i> , pp. 976-981.	
Abbas, Waseem	Georgia Inst. of Tech.
Egerstedt, Magnus	Georgia Inst. of Tech.
14:50-15:10	MoB06.2
<i>Improved Consensus Algorithms Using Memory Effects</i> , pp. 982-987.	
Rodrigues De Campos, Gabriel	Gipsa-Lab. (UMR 5216 CNRS)
Seuret, Alexandre	CNRS
15:10-15:30	MoB06.3
<i>On Decentralized Connectivity Maintenance for Mobile Robotic Systems</i> , pp. 988-993.	
Sabattini, Lorenzo	Univ. of Modena and Reggio Emilia
Chopra, Nikhil	Univ. of Maryland, Coll. Park
Secchi, Cristian	Univ. of Modena & Reggio Emilia
15:30-15:50	MoB06.4
<i>Scaling the Size of a Multiagent Formation Via Distributed Feedback</i> , pp. 994-999.	
Coogan, Samuel	Univ. of California, Berkeley
Arcak, Murat	Univ. of California, Berkeley
Egerstedt, Magnus	Georgia Inst. of Tech.
15:50-16:10	MoB06.5
<i>Rearranging Trees for Robust Consensus</i> , pp. 1000-1005.	
Young, George Forrest	Princeton Univ.
Scardovi, Luca	Tech. Univ. München
Leonard, Naomi Ehrich	Princeton Univ.
MoB07	Escambia
Game Theory II (Regular Session)	
Chair: Meyn, Sean	Univ. of Illinois
Co-Chair: Huang, Minyi	Carleton Univ.
14:30-14:50	MoB07.1
<i>Mean Field Difference Games: McKean-Vlasov Dynamics</i> , pp. 1006-1011.	
Tembine, Hamidou	SUPELEC
Huang, Minyi	Carleton Univ.
14:50-15:10	MoB07.2
<i>Mean Field LQG Games with a Major Player: Continuum Parameters for Minor Players</i> , pp. 1012-1017.	
Nguyen, Son	Carleton Univ.
Huang, Minyi	Carleton Univ.
15:10-15:30	MoB07.3
<i>Learning Equilibria in Constrained Nash-Cournot Games with Misspecified Demand Functions</i> , pp. 1018-1023.	
Jiang, Hao	UIUC
Shanbhag, Uday V.	Univ. of Illinois, Urbana-Champaign

Meyn, Sean	Univ. of Illinois
15:30-15:50	MoB07.4
<i>Optimal Relay UAV Guidance—A New Differential Game</i> , pp. 1024-1029.	
Choi, Youngdong	Air Force Inst. of Tech.
Pachter, Meir	AFIT/ENG
Jacques, David	Air Force Inst. of Tech.
15:50-16:10	MoB07.5
<i>Asymptotic Optimal Tracking Control for an Uncertain Nonlinear Euler-Lagrange System: A RISE-Based Closed-Loop Stackelberg Game Approach</i> , pp. 1030-1035.	
Hiramatsu, Takashi	Univ. of Florida
Johnson, Marcus	Univ. of florida
Fitz-Coy, Norman	Univ. of Florida
Dixon, Warren E.	Univ. of Florida
MoB08	Flagler
Optimal Control II (Regular Session)	
Chair: Alanis, Alma Y.	Univ. de Guadalajara
Co-Chair: McEneaney, William	Univ. of California, San Diego
14:30-14:50	MoB08.1
<i>Lower Bounds on the Performance of Analog to Digital Converters</i> , pp. 1036-1041.	
Osqui, Mitra	Massachusetts Inst. of Tech.
Megretski, Alexandre	Massachusetts Inst. of Tech.
Roosbehani, Mardavij	Massachusetts Inst. of Tech.
14:50-15:10	MoB08.2
<i>Convex Relaxations for Nonconvex Optimal Control Problems</i> , pp. 1042-1047.	
Scott, Joseph	Massachusetts Inst. of Tech.
Barton, Paul	MIT
15:10-15:30	MoB08.3
<i>Inverse Optimal Trajectory Tracking for Discrete Time Nonlinear Positive Systems</i> , pp. 1048-1053.	
Leon, Blanca S.	CINVESTAV Unidad Guadalajara
Alanis, Alma Y.	Univ. de Guadalajara
Sanchez, Edgar N.	CINVESTAV
Ornelas-Tellez, Fernando	Cinvestav
Ruiz-Velazquez, Eduardo	Univ. de Guadalajara
15:30-15:50	MoB08.4
<i>Curse of Dimensionality Reduction in Max-Plus Based Approximation Methods: Theoretical Estimates and Improved Pruning Algorithms</i> , pp. 1054-1061.	
Gaubert, Stephane	INRIA and Ec. Pol.
McEneaney, William	Univ. of California, San Diego
Qu, Zheng	Ec. Pol.
15:50-16:10	MoB08.5
<i>A Cone-Copositive Approach for the Stability of Piecewise Linear Differential Inclusions</i> , pp. 1062-1067.	
Iervolino, Raffaele	Univ. Degli Studi Di Napoli Federico Ii
Vasca, Francesco	Univ. of Sannio
Iannelli, Luigi	Univ. of Sannio in Benevento
MoB09	Gilchrist
Nonlinear Systems I (Regular Session)	
Chair: De Persis, Claudio	Univ. of Groningen
Co-Chair: Tall, Issa Amadou	Southern Illinois Univ. Carbondale
14:30-14:50	MoB09.1
<i>Characterization of Accessibility for a Class of Nonlinear Time-Delay Systems</i> , pp. 1068-1073.	
Li, Shunjie	Nanjing Univ. of Information Science & Tech.

Moog, Claude Califano, Claudia	CNRS Univ. di Roma
14:50-15:10	MoB09.2
<i>Feedback Stabilisation of Locally Controllable Systems</i> , pp. 1074-1079.	
Isaiah, Pantelis	Queen's Univ.
15:10-15:30	MoB09.3
<i>Canonical Forms for Nonlinear Discrete Time Control Systems</i> , pp. 1080-1085.	
Tall, Issa Amadou	Southern Illinois Univ. Carbondale
15:30-15:50	MoB09.4
<i>On the Passivity Approach to Quantized Coordination Problems</i> , pp. 1086-1091.	
De Persis, Claudio	Univ. of Groningen
15:50-16:10	MoB09.5
<i>Nonlinear Superposition Formulas: Some Physically Motivated Examples</i> , pp. 1092-1097.	
Menini, Laura Tornambe, Antonio	Univ. di Roma 'Tor Vergata' Univ. Di Roma Tor Vergata
MoB10	Hamilton
Adaptive Control I (Regular Session)	
Chair: Calise, Anthony J. Co-Chair: Tao, Gang	Georgia Inst. of Tech. Univ. of Virginia
14:30-14:50	MoB10.1
<i>Frequency-Domain Stability Analysis of Retrospective-Cost Adaptive Control for Systems with Unknown Nonminimum-Phase Zeros</i> , pp. 1098-1103.	
D'Amato, Anthony Sumer, Dogan Bernstein, Dennis S.	Univ. of Michigan Univ. of Michigan - Ann Arbor Univ. of Michigan
14:50-15:10	MoB10.2
<i>Derivative-Free Decentralized Adaptive Control of Large-Scale Interconnected Uncertain Systems</i> , pp. 1104-1109.	
Yucelen, Tansel Yang, Bong-Jun Calise, Anthony J.	Georgia Inst. of Tech. Optimal Synthesis Inc. Georgia Inst. of Tech.
15:10-15:30	MoB10.3
<i>Decentralized Adaptive Controller for Synchronization of Dynamical Networks with Delays and Bounded Disturbances</i> , pp. 1110-1115.	
Fradkov, Alexander Grigoriev, Grigoriy Selivanov, Anton	Inst. for Problems of Mech. Eng. Saint-Petersburg State Univ. St. Petersburg State Univ.
15:30-15:50	MoB10.4
<i>Adaptive Receding Horizon Control for a Class of Nonlinear Differential Difference Systems</i> , pp. 1116-1121.	
Lu, Mu-Chiao	Ontario Power Generation
15:50-16:10	MoB10.5
<i>A Feedback-Based Sensor Uncertainty Detection Scheme</i> , pp. 1122-1127.	
Guo, Jiaxing Tao, Gang	Univ. of Virginia Univ. of Virginia
MoB11	Indian River
Discrete Event Systems II (Regular Session)	
Chair: Giua, Alessandro Co-Chair: Su, Rong	Univ. di Cagliari Nanyang Tech. Univ.
14:30-14:50	MoB11.1
<i>Consensus-Based Decentralized Supervision of Petri Nets</i> , pp. 1128-1135.	
Gasparri, Andrea Giua, Alessandro	Univ. of "Roma Tre" Univ. di Cagliari

Di Paola, Donato	National Res. Council (CNR)
Ulivi, Giovanni	Univ. di Roma Tre
Naso, David	Pol. di Bari
14:50-15:10	MoB11.2
<i>A Super-Eigenvector Approach to Control Constrained Max-Plus Linear Systems</i> , pp. 1136-1141.	
Maia, Carlos Andrey	Univ. Federal de Minas Gerais
Hardouin, Laurent	Univ. of Angers
Santos-Mendes, Rafael	State Univ. of Campinas
Loiseau, Jean Jacques	CNRS
15:10-15:30	MoB11.3
<i>Deadlock-Avoidance Control of Multithreaded Software: An Efficient Siphon-Based Algorithm for Gadara Petri Nets</i> , pp. 1142-1148.	
Liao, Hongwei	Univ. of Michigan, Ann Arbor
Stanley, Jason	Univ. of Michigan
Wang, Yin	Hewlett-Packard
Lafortune, Stephane	Univ. of Michigan
Reveliotis, Spyros A.	Georgia Inst. of Tech.
Mahlke, Scott	Univ. of Michigan, Ann Arbor
15:30-15:50	MoB11.4
<i>Towards Geometric Control of Max-Plus Linear Systems with Applications to Manufacturing Systems</i> , pp. 1149-1154.	
Hardouin, Laurent	Univ. of Angers
Lhommeau, Mehdi	Univ. d'Angers
Shang, Ying	Southern Illinois Univ. Edwardsville
15:50-16:10	MoB11.5
<i>Maximally Permissive Distributed Supervisory Control of Nondeterministic Discrete-Event Systems</i> , pp. 1155-1160.	
Su, Rong	Nanyang Tech. Univ.
van Schuppen, Jan H.	CWI
Rooda, J.E.	Eindhoven Univ. of Tech.
MoB12	Lake
Switched Systems II (Regular Session)	
Chair: Voulgaris, Petros G.	Univ. of Illinois, Urbana-Champaign
Co-Chair: Oliveira, Vilma A.	Univ. de Sao Paulo
14:30-14:50	MoB12.1
<i>On the Computation of L_∞ Gains of Switched Systems</i> , pp. 1161-1165.	
Voulgaris, Petros G.	Univ. of Illinois, Urbana-Champaign
14:50-15:10	MoB12.2
<i>Characterization and Computation of Robust Invariant Sets for Switching Systems under Dwell-Time Consideration</i> , pp. 1166-1171.	
Dehghan, Masood	National Univ. of Singapore
Ong, Chong-Jin	National Univ. of Singapore
Chen, Peter C. Y.	National Univ. of Singapore
15:10-15:30	MoB12.3
<i>Structural Stability of Equilibrium Sets for a Class of Discontinuous Vector Fields</i> , pp. 1172-1177.	
Biamond, J. J. Benjamin	Eindhoven Univ. of Tech.
Van De Wouw, Nathan	Eindhoven Univ. of Tech.
Nijmeijer, Hendrik	Eindhoven Univ. of Tech.
15:30-15:50	MoB12.4
<i>An Extension of the Invariance Principle for Switched Nonlinear Systems</i> , pp. 1178-1182.	
Valentino, Michele Cristina	USP - Univ. de São Paulo
Oliveira, Vilma A.	Univ. de Sao Paulo
Alberto, Luis Fernando Costa	Univ. of Sao Paulo
Sant'Anna, Douglas Azevedo	USP- Univ. of São Paulo

15:50-16:10	MoB12.5
<i>Stabilizing Switching Rule Design for Affine Switched Systems</i> , pp. 1183-1188.	
Trofino, Alexandre	Federal Univ. of Santa Catarina
Scharlau, Cesar Cataldo	Univ. Federal de Santa Catarina (UFSC)
Dezuo, Tiago J.M.	UFSC/CTC/DAS 88040-900 Florianopolis, Brazil
de Oliveira, Mauricio C.	Univ. of California, San Diego

MoB13	Manatee
Linear Systems II (Regular Session)	

Chair: Ohta, Yoshito	Kyoto Univ.
Co-Chair: Bonilla, Moises E.	CINVESTAV-IPN

14:30-14:50	MoB13.1
<i>A One-Step Procedure for Frequency Response Estimation Based on Switch-Mode Transfer Function Analyzer</i> , pp. 1189-1194.	
De Keyser, Robin M.C.	Univ. of Gent
Ionescu, Clara	Ghent Univ.
Festila, Clement	Tech. Univ.

14:50-15:10	MoB13.2
<i>A Geometric Perspective on H2-Optimal Rejection by Measurement Feedback in Strictly Proper Systems: The Continuous-Time Case</i> , pp. 1195-1200.	
Marro, Giovanni	Univ. of Bologna
Zattoni, Elena	Univ. of Bologna

15:10-15:30	MoB13.3
<i>System Transformation of Unstable Systems Induced by a Shift-Invariant Subspace</i> , pp. 1201-1206.	
Ohta, Yoshito	Kyoto Univ.

15:30-15:50	MoB13.4
<i>More about Almost Controllability Subspaces</i> , pp. 1207-1212.	
Bonilla, Moises E.	CINVESTAV-IPN
Mendez Delgadillo, Hugo	CINVESTAV-IPN
Malabre, Michel	CNRS

15:50-16:10	MoB13.5
<i>Strong Structural Controllability of Linear Systems Revisited</i> , pp. 1213-1218.	
Svaricek, Ferdinand	Univ. of German Armed Forces Munich
Jarczyk, Jan Christian	Univ. der Bundeswehr München
Alt, Benedikt	Department of Aeronautical Engineering

MoB14	Sarasota
Predictive Control for Linear Systems II (Regular Session)	

Chair: Kerrigan, Eric C.	Imperial Coll. London
Co-Chair: Heemels, Maurice	Eindhoven Univ. of Tech.

14:30-14:50	MoB14.1
<i>Constrained Spectrum Control Using MPC</i> , pp. 1219-1226.	
Gondhalekar, Ravi	Osaka Univ.
Jones, Colin Neil	EPFL, Switzerland
Besselmann, Thomas	ABB Switzerland Ltd.
Hours, Jean-Hubert	ABB Corp. Res.
Mercangoz, Mehmet	ABB Corp. Res.

14:50-15:10	MoB14.2
<i>Synthesis of Low-Complexity Stabilizing Piecewise Affine Controllers: A Control-Lyapunov Function Approach</i> , pp. 1227-1232.	
Lu, Liang	Northeastern Univ.
Heemels, Maurice	Eindhoven Univ. of Tech.
Bemporad, Alberto	IMT Inst. for Advanced Studies Lucca

15:10-15:30	MoB14.3
<i>Performance Analysis of Asynchronous Model Predictive Control Laws</i> , pp. 1233-1238.	

Gondhalekar, Ravi	Osaka Univ.
15:30-15:50	MoB14.4
<i>Parallel Move Blocking Model Predictive Control</i> , pp. 1239-1244.	
Longo, Stefano	Imperial Coll. London
Kerrigan, Eric C.	Imperial Coll. London
Ling, Keck-Voon	Nanyang Tech. Univ.
Constantinides, George A.	Imperial Coll. London
15:50-16:10	MoB14.5
<i>Strongly Feasible Stochastic Model Predictive Control</i> , pp. 1245-1251.	
Korda, Milan	Czech Tech. Univ. in Prague
Gondhalekar, Ravi	Osaka Univ.
Cigler, Jiri	Czech Tech. Univ. in Prague
Oldewurtel, Frauke	ETH Zurich
MoB15	Union
Time Varying Systems I (Regular Session)	
Chair: Do Val, Joao B.R.	UNICAMP - FEEC
Co-Chair: Chen, Tongwen	Univ. of Alberta
14:30-14:50	MoB15.1
<i>Observer-Based Pole Placement for Non-Lexico-Graphiacally-Fixed Linear Time-Varying Systems</i> , pp. 1252-1257.	
Mutoh, Yasuhiko	Sophia Univ.
Kimura, Naoto	Sophia Univ.
14:50-15:10	MoB15.2
<i>Singularly Perturbed Implicit Control Law for Linear Time Varying SISO Systems. Part II: State Observation</i> , pp. 1258-1263.	
Puga, S. A.	Acad. de Sistemas, UPIITA, Inst. Pol. Nacional
Bonilla, Moises E.	CINVESTAV-IPN
Malabre, Michel	CNRS
15:10-15:30	MoB15.3
<i>Stationary Policies for the Second Moment Stability in a Class of Stochastic Systems</i> , pp. 1264-1268.	
Vargas, Alessandro N.	Univ. Tec. Federal do Parana, UTFPR
Do Val, Joao B.R.	UNICAMP - FEEC
15:30-15:50	MoB15.4
<i>Robust H-Infinity Filtering for Nonuniformly Sampled Systems</i> , pp. 1269-1273.	
Mustafa, Ghulam	Univ. of Alberta
Chen, Tongwen	Univ. of Alberta
Fujioka, Hisaya	Kyoto Univ.
15:50-16:10	MoB15.5
<i>Two-Degree-Of-Freedom LPV Control for a Through-The-Road Hybrid Electric Vehicle Via Torque Vectoring</i> , pp. 1274-1279.	
Liu, Qin	Hamburg Univ. of Tech.
Kaiser, Gerd	Intedis
Boonto, Sudchai	King Mongkut's Unniversity of Tech. Thonburi
Werner, Herbert	Hamburg Univ. of Tech.
Holzmann, Frederic	Intedis
Chretien, Benoît	Intedis
Korte, Matthias	Intedis GmbH
MoB16	Palm Beach
Cooperative Control and Autonomous Systems I (Regular Session)	
Chair: Banavar, Ravi N.	Indian Inst. of Tech.
Co-Chair: Saberi, Ali	Washington State Univ.
14:30-14:50	MoB16.1
<i>Optimal Topology Design for Dynamic Networks</i> , pp. 1280-1285.	
Dai, Ran	Univ. of Washinton

Mesbahi, Mehran	Univ. of Washington
14:50-15:10	MoB16.2
<i>Output Consensus for Networks of Non-Identical Introspective Agents</i> , pp. 1286-1292.	
Yang, Tao	Washington State Univ.
Saberi, Ali	Washington State Univ.
Stoorvogel, Anton A.	Univ. of Twente
Grip, Håvard Fjær	Washington State Univ.
15:10-15:30	MoB16.3
<i>A Formation Flying Algorithm for Autonomous Underwater Vehicles</i> , pp. 1293-1298.	
Kempker, Pia L.	Vrije Univ. Amsterdam
Ran, André C.M.	Vrije Univ.
van Schuppen, Jan H.	CWI
15:30-15:50	MoB16.4
<i>A Result on Implicit Consensus with Application to Emissions Control</i> , pp. 1299-1304.	
Knorn, Florian	National Univ. of Ireland, Maynooth
Corless, Martin J.	Purdue Univ.
Shorten, Robert	Nat. Univ. of Ireland
15:50-16:10	MoB16.5
<i>Rendezvous in Space with Minimal Sensing and Coarse Actuation</i> , pp. 1305-1310.	
Sahoo, Soumya Ranjan	Indian Inst. of Tech. Bombay
Banavar, Ravi N.	Indian Inst. of Tech.
Sinha, Arpita	Indian Inst. of Tech. Bombay
MoB17	Alachua
Distributed Parameter Systems II (Regular Session)	
Chair: Vissers, Jochem	Eindhoven Univ. of Tech.
Co-Chair: Orlov, Yury	CICESE
14:30-14:50	MoB17.1
<i>Well Posedness of the Model of an Extruder in Infinite Dimension</i> , pp. 1311-1316.	
Diagne, Mamadou	LAGEP, Univ. of Lyon
Dos Santos Martins, Valérie Sylvie	LAGEP
Couenne, Françoise	Univ. of Lyon, UMR CNRS 5007
Maschke, Bernhard	Univ. Claude Bernard of Lyon
14:50-15:10	MoB17.2
<i>Optimal L2-Gain Estimator Design for Distributed Parameter Systems</i> , pp. 1317-1322.	
Vissers, Jochem	Eindhoven Univ. of Tech.
Weiland, Siep	Eindhoven Univ. of Tech.
15:10-15:30	MoB17.3
<i>Boundary Second-Order Sliding-Mode Control of an Uncertain Heat Process with Spatially Varying Diffusivity</i> , pp. 1323-1328.	
Orlov, Yury	CICESE
Pisano, Alessandro	Univ. of Cagliari
Usai, Elio	Univ. degli Studi di Cagliari
15:30-15:50	MoB17.4
<i>Local Exponential H2 Stabilization of a 2 X 2 Quasilinear Hyperbolic System Using Backstepping</i> , pp. 1329-1334.	
Vazquez, Rafael	Univ. de Sevilla
Coron, Jean-michel	Univ. Pierre et Marie Curie
Krstic, Miroslav	Univ. of California, San Diego
Bastin, Georges	Univ. Catholique de Louvain
15:50-16:10	MoB17.5
<i>Controllability and Observability of Multi Partial Differential Equation Systems with Coupled Boundary Conditions</i> , pp. 1335-1340.	
Suzuki, Masayasu	Japan Science and Tech. Agency
Imura, Jun-ichi	Tokyo Inst. of Tech.

MoB18	Baker
Robust Control II (Regular Session)	
Chair: Eslami, Mansour	Univ. of Illinois at Chicago
Co-Chair: Hagiwara, Tomomichi	Kyoto Univ.
14:30-14:50	MoB18.1
<i>CONSTRUCTING STABLE PATH in PARAMETER VARIATION SPACE</i> , pp. 1341-1346.	
Eslami, Mansour	Univ. of Illinois at Chicago
14:50-15:10	MoB18.2
<i>Robust Gain-Scheduled Estimation: A Convex Solution</i> , pp. 1347-1352.	
Veenman, Joost	Univ. of Stuttgart
Scherer, Carsten W.	Univ. of Stuttgart
15:10-15:30	MoB18.3
<i>On the Geometric Aspects of the Invariant Ellipsoid Method: Application to the Robust Control Design</i> , pp. 1353-1358.	
Azhmyakov, Vadim	CINVESTAV
15:30-15:50	MoB18.4
<i>Infinite Matrix Representations of Robust Stability Conditions for Discrete-Time Systems</i> , pp. 1359-1366.	
Hosoe, Yohei	Kyoto Univ.
Hagiwara, Tomomichi	Kyoto Univ.
15:50-16:10	MoB18.5
<i>Periodic FIR Controller Synthesis for Discrete-Time Uncertain Linear Systems</i> , pp. 1367-1372.	
Tregouet, Jean-Francois	LAAS-CNRS
Arzelier, Denis	LAAS-CNRS
Peaucelle, Dimitri	LAAS-CNRS, Univ. de Toulouse
Ebihara, Yoshio	Kyoto Univ.
Pittet, Christelle	CNES
Falcoz, Alexandre	IMS
MoB19	Bay
Robotics II (Regular Session)	
Chair: Farrell, Jay	Univ. of California Riverside
Co-Chair: Khorasani, Khashayar	Concordia Univ.
14:30-14:50	MoB19.1
<i>Distributed Control of Multiple Wheeled Mobile Robots</i> , pp. 1373-1378.	
Dong, Wenjie	The Univ. of Texas - Pan American
Ben Ghalia, Mounir	The Univ. of Texas - Pan American
Farrell, Jay	Univ. of California Riverside
14:50-15:10	MoB19.2
<i>Distributed H-Infinity Optimal Control of Networked Uncertain Nonlinear Euler-Lagrange Systems with Switching Communication Network Topologies</i> , pp. 1379-1386.	
Mehrabian, Ali Reza	Concordia Univ.
Tafazoli, Siamak	Concordia Univ.
Khorasani, Khashayar	Concordia Univ.
15:10-15:30	MoB19.3
<i>A Dual Model-Free Control of Non-Minimum Phase Systems for Generation of Stable Limit Cycles</i> , pp. 1387-1392.	
Andary, Sebastien	LIRMM - Univ. Montpellier 2
Chemori, Ahmed	CNRS
15:30-15:50	MoB19.4
<i>New Method for Global Identification of the Joint Drive Gains of Robots Using a Known Inertial Payload</i> , pp. 1393-1398.	
Gautier, Maxime	Univ. of Nantes
Briot, Sebastien	IRCCyN, Inst. de recherches en communications et cybernetique

15:50-16:10	MoB19.5
<i>Increasing Efficiency of Optimization-Based Path Planning for Robotic Manipulators</i> , pp. 1399-1404.	
Ding, Hao	Univ. of Kassel
Reissig, Gunther	Univ. of the Federal Armed Forces Munich
Stursberg, Olaf	Univ. of Kassel

MoB20	Broward
Stochastic Systems II (Regular Session)	
Chair: Fujimoto, Kenji	Nagoya Univ.
Co-Chair: Wang, Hong	The Univ. of Manchester

14:30-14:50	MoB20.1
<i>Multiobjective Meta-Heuristic Product Scheduling for Multi-Machine Manufacturing Systems</i> , pp. 1405-1410.	
Ghasemi Afshar, Puya	The Univ. of Manchester
Wang, Hong	The Univ. of Manchester

14:50-15:10	MoB20.2
<i>A Stochastic Reachability Framework for Autonomous Surveillance with Pan-Tilt-Zoom Cameras</i> , pp. 1411-1416.	
Kariotoglou, Nikolaos	Automatic Control Lab. Swiss Federal Inst. of Tech.
Raimondo, Davide Martino	Univ. degli Studi di Pavia
Summers, Sean	ETH Zurich
Lygeros, John	ETH Zurich

15:10-15:30	MoB20.3
<i>Optimal Management of a Two Dam System Via Stochastic Control: Parallel Computing Approach</i> , pp. 1417-1423.	
Miller, Boris	Monash Univ.
McInnes, Daniel James	Monash Univ.

15:30-15:50	MoB20.4
<i>Optimal Control of Linear Systems with Stochastic Parameters for Variance Suppression</i> , pp. 1424-1429.	
Fujimoto, Kenji	Nagoya Univ.
Ota, Yuhei	Nagoya Univ.
Nakayama, Makishi	Kobe Steel Ltd.

15:50-16:10	MoB20.5
<i>Control Performance Improvements Due to Fluctuations in Dynamics of Stochastic Control Systems</i> , pp. 1430-1436.	
Ushida, Shun	Osaka Inst. of Tech.

MoB21	Brevard
Agents and Autonomous Systems II (Regular Session)	
Chair: Aghdam, Amir G.	Concordia Univ.
Co-Chair: Hara, Shinji	The Univ. of Tokyo

14:30-14:50	MoB21.1
<i>Aggregation and Rendezvous in an Unbounded Domain without a Shared Coordinate System</i> , pp. 1437-1442.	
Rogers, Bruce	Duke Univ.
Fricke, Gregory	Duke Univ.
Garg, Devendra P.	Duke Univ.

14:50-15:10	MoB21.2
<i>Structural Controllability of Multi-Agent Systems Subject to Simultaneous Failure of Links and Agents</i> , pp. 1443-1448.	
Rahimian, Mohammad Amin	Sharif Univ. of Tech.
Aghdam, Amir G.	Concordia Univ.

15:10-15:30	MoB21.3
<i>Hierarchical Network Synthesis for Output Consensus by Eigenvector-Based Interlayer Connections</i> , pp. 1449-1454.	
Fujimori, Naotsuna	The Univ. of Tokyo
Liu, Lu	The Univ. of Nottingham
Hara, Shinji	The Univ. of Tokyo
Tsubakino, Daisuke	Hokkaido Univ.

15:30-15:50	MoB21.4
<i>Leaderless Consensus Control of Dynamical Agents under Directed Interaction Topology</i> , pp. 1455-1460.	
Qin, Jiahu	Australian National Univ. Australia
Yu, CHANGBIN (Brad)	The Australian National Univ.
Gao, Huijun	Harbin Inst. of Tech.
Wang, Xiangke	The Australian National Univ.
15:50-16:10	MoB21.5
<i>Advection on Graphs</i> , pp. 1461-1466.	
Chapman, Airlie	Univ. of Washington
Mesbahi, Mehran	Univ. of Washington
MoB22	Bradford
System Identification II (Regular Session)	
Chair: Ljung, Lennart	Linköping Univ.
Co-Chair: Ramos, Jose A.	Nova Southeastern Univ.
14:30-14:50	MoB22.1
<i>A Convex Approach to Subspace Clustering</i> , pp. 1467-1472.	
Ohlsson, Henrik	Linköping Univ.
Ljung, Lennart	Linköping Univ.
14:50-15:10	MoB22.2
<i>Identification of Linear Systems Using Output Measurements with Only Two Possible Values</i> , pp. 1473-1478.	
Depraetere, Bruno	Katholieke Univ. Leuven
Pinte, Gregory	Flanders' Mechatronics Tech. Centre
Swevers, Jan	K. U. Leuven
15:10-15:30	MoB22.3
<i>A New Metric for Multivariate Spectral Estimation Leading to Lowest Complexity Spectra</i> , pp. 1479-1484.	
Ferrante, Augusto	Univ. di Padova
Masiero, Chiara	Univ. of Padova
Pavon, Michele	Univ. di Padova
15:30-15:50	MoB22.4
<i>A Note on Generalized Factor Analysis Models</i> , pp. 1485-1490.	
Bottegal, Giulio	Univ. OF PADOVA
Picci, Giorgio	Univ. di Padova
15:50-16:10	MoB22.5
<i>Subspace System Identification of Separable-In-Denominator 2-D Stochastic Systems</i> , pp. 1491-1496.	
Ramos, Jose A.	Nova Southeastern Univ.
Lopes dos Santos, P.	Univ. do Porto
MoC01	Orange
Energy Systems II (Regular Session)	
Chair: Cassandras, Christos G.	Boston Univ.
Co-Chair: Bemporad, Alberto	Univ. of Trento
16:30-16:50	MoC01.1
<i>Optimal Control of Multi-Battery Energy-Aware Systems</i> , pp. 1497-1502.	
Wang, Tao	Boston Univ.
Cassandras, Christos G.	Boston Univ.
16:50-17:10	MoC01.2
<i>Maximum Power Point Tracking for Photovoltaic Systems Using Adaptive Extremum Seeking Control</i> , pp. 1503-1508.	
Li, Xiao	Univ. of Wisconsin Milwaukee
Li, Yaoyu	Univ. of Wisconsin-Milwaukee
Seem, John E.	Johnson Controls Inc.
Lei, Peng	Univ. of Wisconsin-Milwaukee

17:10-17:30	MoC01.3
<i>A Multi-Stage Stochastic Optimization Approach to Optimal Bidding on Energy Markets</i> , pp. 1509-1514.	
Puglia, Laura	Univ. degli Studi di Trento
Bernardini, Daniele	Univ. of Trento
Bemporad, Alberto	IMT Inst. for Advanced Studies Lucca

17:30-17:50	MoC01.4
<i>Robust Economic MPC for a Power Management Scenario with Uncertainties</i> , pp. 1515-1520.	
Hovgaard, Tobias Gybel	Danfoss A/S
Larsen, Lars Finn Sloth	Danfoss A/S
Jørgensen, John Bagterp	Tech. Univ. of Denmark

17:50-18:10	MoC01.5
<i>Optimal Contract for Wind Power in Day-Ahead Electricity Markets</i> , pp. 1521-1527.	
Cai, Desmond W. H.	California Inst. of Tech.
Adlakha, Sachin	California Inst. of Tech.
Chandy, K. Mani	California Inst. of Tech.

MoC02	Dixie
Behavioural Systems (Regular Session)	

Chair: Rocha, Paula	Univ. of Oporto
Co-Chair: Roozbehani, Mardavij	Massachusetts Inst. of Tech.

16:30-16:50	MoC02.1
<i>Impulsive Solutions, Inadmissible Initial Conditions and Pole/zero Structure at Infinity</i> , pp. 1528-1533.	
Belur, Madhu N.	Indian Inst. of Tech. Bombay
Praagman, Cornelis	Univ. of Groningen

16:50-17:10	MoC02.2
<i>On the Stability of Switched Behavioral Systems</i> , pp. 1534-1538.	
Rocha, Paula	Univ. of Oporto
Willems, Jan C.	K.U. Leuven
Rapisarda, Paolo	Univ. of Southampton
Napp, Diego	Univ. of Valladolid

17:10-17:30	MoC02.3
<i>The Intertemporal Utility of Demand and Price-Elasticity of Consumption in Power Grids with Shiftable Loads</i> , pp. 1539-1544.	
Roozbehani, Mardavij	Massachusetts Inst. of Tech.
Faghih, Ali	MIT
Ohannessian, Mesrob	Massachusetts Inst. of Tech.
Dahleh, Munther A.	Massachusetts Inst. of Tech.

17:30-17:50	MoC02.4
<i>State Space Representation of SISO Periodic Behaviors</i> , pp. 1545-1550.	
Aleixo, José Carlos	Univ. of Beira Interior
Rocha, Paula	Univ. of Oporto
Willems, Jan C.	K.U. Leuven

17:50-18:10	MoC02.5
<i>Open Stochastic Systems</i> , pp. 1551-1556.	
Willems, Jan C.	K.U. Leuven

MoC03	Columbia
Fault Detection III (Regular Session)	

Chair: Jagannathan, Sarangapani	Missouri Univ. of Science & Tech.
Co-Chair: Hamelin, Frederic	Univ. Henri Poincare, Nancy 1

16:30-16:50	MoC03.1
<i>A Robust Algebraic Approach to Fault Diagnosis of Uncertain Linear Systems</i> , pp. 1557-1562.	
Moussa Ali, Abdouramane	CRAN - CNRS - Nancy Univ.

Join, Cedric	Univ. Henri Poincare, Nancy 1
Hamelin, Frederic	Univ. Henri Poincare, Nancy 1
16:50-17:10	MoC03.2
<i>Quantitative Stochastic Fault Diagnosability Analysis</i> , pp. 1563-1569.	
Eriksson, Daniel	Linköping Univ.
Krysander, Mattias	Linköping U.
Frisk, Erik	Linköping Univ.
17:10-17:30	MoC03.3
<i>A Unified Model-Based Fault Diagnosis Scheme for Nonlinear Discrete-Time Systems with Additive and Multiplicative Faults</i> , pp. 1570-1575.	
Ferdowsi, Hasan	Missouri Univ. of Science and Tech.
Jagannathan, Sarangapani	Missouri Univ. of Science & Tech.
17:30-17:50	MoC03.4
<i>Sensor Fault Diagnosis for Bilinear Systems Using Data-Based Residuals</i> , pp. 1576-1582.	
Hakem, Assia	Lille 1 Univ.
Pekpe, Komi Midzodzi	Univ. de Lille 1
Cocquempot, Vincent	Lille 1 Univ.
17:50-18:10	MoC03.5
<i>Modified Pseudo-Inverse Method with Generalized Linear Quadratic Regulator for Fault Tolerant Model Matching with Prescribed Stability Degree</i> , pp. 1583-1588.	
Ciubotaru, Bogdan D.	Pol. Univ. of Bucharest
Staroswiecki, Marcel	Univ. des Sciences et Tech. de Lille
Christov, Nicolai	Univ. des Sciences et Tech. de Lille
MoC04	Nassau
Electrical Machine Control II (Regular Session)	
Chair: Zanasi, Roberto	Univ. of Modena and Reggio Emilia
Co-Chair: Wu, Wei	Lexmark International
16:30-16:50	MoC04.1
<i>Multi-Phase Vectorial Control of Synchronous Motors with Currents and Voltages Saturations</i> , pp. 1589-1595.	
Fei, Marco	Univ. of Modena and Reggio Emilia
Zanasi, Roberto	Univ. of Modena and Reggio Emilia
16:50-17:10	MoC04.2
<i>Two Loop Based Dynamical Feedback Stabilization Control of a Diesel Engine with EGR & VGT</i> , pp. 1596-1601.	
Wang, Haoping	Univ. de Picardie Jules Verne
Bosche, Jerome	Univ. of Amiens
Tian, Yang	LAGIS-UMR CNRS 8146, Ec. centrale de Lille
El Hajjaji, Ahmed	Univ. de Picardie-Jules Verne
17:10-17:30	MoC04.3
<i>Tracking Control of Direct-Drive Servos</i> , pp. 1602-1607.	
Lyshevski, Sergey	Rochester Inst. of Tech.
Smith, Trevor	Harris RF Communications
17:30-17:50	MoC04.4
<i>On Hysteresis and Air Gap Disturbance in Current and Voltage Mode Feed-Forward Control of Variable Reluctance Actuators</i> , pp. 1608-1613.	
Katalenic, Andelko	Eindhoven Univ. of Tech.
van Lierop, C.M.M.	Eindhoven Univ. of Tech.
van den Bosch, P. P. J.	Eindhoven Univ. of Tech.
17:50-18:10	MoC04.5
<i>Disturbance Compensation for DC Motor Mechanism Low Speed Regulation : A Feedforward and Feedback Implementation</i> , pp. 1614-1619.	
Wu, Wei	Lexmark International

MoC05	Taylor
Mechatronics II (Regular Session)	
Chair: Lin, Zongli	Univ. of Virginia
Co-Chair: Blanke, Mogens	Tech. Univ. of Denmark
16:30-16:50	MoC05.1
<i>Fault Diagnosis for Nonlinear Hydraulic-Mechanical Drilling Pipe Handling System</i> , pp. 1620-1626.	
Choux, Martin	Univ. of Agder
Blanke, Mogens	Tech. Univ. of Denmark
16:50-17:10	MoC05.2
<i>Design and Implementation of a Surge Controller for an AMB Supported Compressor in the Presence of Piping Acoustics</i> , pp. 1627-1632.	
Yoon, Se Young (Pablo)	Univ. of Virginia
Lin, Zongli	Univ. of Virginia
Allaire, Paul	Univ. of Virginia
17:10-17:30	MoC05.3
<i>Control of a Multi-Axis Platform for Metrological Purposes Using Differential Flatness</i> , pp. 1633-1638.	
Rodriguez-Fortun, Jose M.	Inst. Tecnologico de Aragon
Orus, Javier	Inst. Tecnologico de Aragon
Alfonso, Jesus	Inst. Tecnologico de Aragon
Rotella, Frederic	ENIT
Castellanos, Jose A.	Univ. of Zaragoza
17:30-17:50	MoC05.4
<i>Observer Based Output Feedback Control of Thrust Magnetic Bearings</i> , pp. 1639-1643.	
Okur, Beytullah	Yildiz Tech. Univ.
Zergeroglu, Erkan	Gebze Inst. of Tech.
Tatlicioglu, Enver	Izmir Inst. of Tech.
Sivrioglu, Selim	Gebze Inst. of Tech.
Basaran, Sinan	Gebze Inst. of Tech.
17:50-18:10	MoC05.5
<i>Robust Repetitive Controller Design and Its Application on the Track-Following Control System in Optical Disk Drives</i> , pp. 1644-1649.	
Doh, Tae-Yong	Hanbat National Univ.
Ryoo, Jung Rae	Korea Adv. Inst. of Sci. & Tech.
MoC06	Jackson
Networked Control Systems III (Regular Session)	
Chair: Di Benedetto, M. Domenica	Univ. of L'Aquila
Co-Chair: Lemmon, Michael	Univ. of Notre Dame
16:30-16:50	MoC06.1
<i>Model-Based Event-Triggered Control with Time-Varying Network Delays</i> , pp. 1650-1655.	
Garcia, Eloy	Univ. of Notre Dame
Antsaklis, Panos J.	Univ. of Notre Dame
16:50-17:10	MoC06.2
<i>Performance and Average Sampling Period of Sub-Optimal Triggering Event in Event Triggered State Estimation</i> , pp. 1656-1661.	
Li, Lichun	U. of Notre Dame
Lemmon, Michael	Univ. of Notre Dame
17:10-17:30	MoC06.3
<i>Qualitative Analysis of a One-Step Finite-Horizon Boundary for Event-Driven Controllers</i> , pp. 1662-1667.	
Velasco, Manel	Tech. Univ. of Catalonia
Marti, Pau	Tech. Univ. of Catalonia
Yepez, Jose	Tech. Univ. of Catalonia
Ruiz, Francisco J.	Tech. Univ. of Catalonia
Fuertes, Josep M.	Tech. Univ. of Catalonia

Bini, Enrico	Scuola Superiore Sant'Anna
17:30-17:50	MoC06.4
<i>Delay System Method to Design of Event-Triggered Control of Networked Control Systems</i> , pp. 1668-1673.	
Yue, Dong	Huazhong Univ. of Science and Tech.
Tian, Engang	Nanjing Normal Univ.
Han, Qing-Long	Central Queensland Univ.
17:50-18:10	MoC06.5
<i>Digital Self Triggered Robust Control of Nonlinear Systems</i> , pp. 1674-1679.	
Di Benedetto, M. Domenica	Univ. of L'Aquila
Di Gennaro, Stefano	Univ. of L'Aquila
D'Innocenzo, Alessandro	Univ. of L'Aquila
MoC07	Escambia
Model Validation (Regular Session)	
Chair: Silvestre, Carlos	Inst. Superior Tecnico
Co-Chair: Medvedev, Alexander V.	Uppsala Univ.
16:30-16:50	MoC07.1
<i>Model Selection in Stochastic Chemical Reaction Networks Using Flow Cytometry Data</i> , pp. 1680-1685.	
Lillacci, Gabriele	Univ. of California at Santa Barbara
Khammash, Mustafa H.	Univ. of California at Santa Barbara
16:50-17:10	MoC07.2
<i>Model Refinement for the Active Control of Thermoacoustic Instability</i> , pp. 1686-1691.	
Yuan, Xiaochuan	Univ. of Cambridge
Glover, Keith	Univ. of Cambridge
17:10-17:30	MoC07.3
<i>Model Validation: A Probabilistic Formulation</i> , pp. 1692-1697.	
Halder, Abhishek	Texas A&M Univ.
Bhattacharya, Raktim	Texas A&M
17:30-17:50	MoC07.4
<i>Dynamic Smooth Pursuit Gain Estimation from Eye Tracking Data</i> , pp. 1698-1703.	
Jansson, Daniel	Uppsala Univ.
Medvedev, Alexander V.	Uppsala Univ.
17:50-18:10	MoC07.5
<i>Model Falsification Using SVOs for a Class of Discrete-Time Dynamic Systems: A Coprime Factorization Approach</i> , pp. 1704-1709.	
Rosa, Paulo Andre Nobre	Inst. Superior Tecnico, Lisbon
Silvestre, Carlos	Inst. Superior Tecnico
Athans, Michael	Inst. Superior Tecnico
MoC08	Flagler
Optimal Control III (Regular Session)	
Chair: Parisini, Thomas	Imperial Coll. London & Univ. of Trieste
Co-Chair: Hui, Qing	Texas Tech. Univ.
16:30-16:50	MoC08.1
<i>Robust Minimum-Time Constrained Control of Nonlinear Discrete-Time Systems: New Results</i> , pp. 1710-1715.	
Pin, Gilberto	Danieli Automation S.p.A. (Italy)
Parisini, Thomas	Imperial Coll. & Univ. of Trieste
16:50-17:10	MoC08.2
<i>Approximate Finite-Horizon Optimal Control without PDE's</i> , pp. 1716-1721.	
Sassano, Mario	Imperial Coll. London
Astolfi, Alessandro	Imperial Coll. & Univ. of Rome
17:10-17:30	MoC08.3

On Generalized Policy Iteration for Continuous-Time Linear Systems, pp. 1722-1728.

Lee, Jae Young	Yonsei Univ.
Chun, Tae Yoon	Yonsei Univ.
Park, Jin Bae	Yonsei Univ.
Choi, Yoon Ho	Kyonggi Univ.

17:30-17:50 MoC08.4

A Constrained Optimal Control Approach to Smoothing Splines, pp. 1729-1734.

Shen, Jinglai	Univ. of Maryland Baltimore County
Wang, Xiao	Purdue Univ.

17:50-18:10 MoC08.5

Optimal Coordinated Resource Allocation in Ad Hoc Network Systems: A Sequential Two-Stage Approach, pp. 1735-1740.

Hui, Qing	Texas Tech. Univ.
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MoC09 Gilchrist

Nonlinear Systems II (Regular Session)

Chair: Efimov, Denis	Inst. for Problems of Mechanical Eng.
Co-Chair: Alexandridis, Antonis	Univ. of Patras

16:30-16:50 MoC09.1

On Norm-Controllability of Nonlinear Systems, pp. 1741-1746.

Muller, Matthias Albrecht	Univ. of Stuttgart
Liberzon, Daniel	Univ. of Illinois, Urbana-Champaign
Allgower, Frank	Univ. of Stuttgart

16:50-17:10 MoC09.2

Oscillating System Design Applying Universal Formula for Control, pp. 1747-1752.

Efimov, Denis	Inst. for Problems of Mechanical Eng.
Perruquetti, Wilfrid	Ec. Centrale de Lille

17:10-17:30 MoC09.3

Stability and Convergence Analysis for a Class of Nonlinear Passive Systems, pp. 1753-1758.

Konstantopoulos, George	Univ. of Patras
Alexandridis, Antonis	Univ. of Patras

17:30-17:50 MoC09.4

Bounded Control Based on Saturation Functions of Nonlinear Under-Actuated Mechanical Systems : The Cart-Pendulum System Case, pp. 1759-1764.

Aguilar-Ibanez, Carlos	Cent. de Investigacion en Comput.
Martinez-Garcia, Juan Carlos	CINVESTAV-IPN
Soria, Alberto	CINVESTAV

17:50-18:10 MoC09.5

Control of Nonlinear Bilateral Teleoperation Systems Subject to Disturbances, pp. 1765-1770.

Mohammadi, Alireza	Univ. of Toronto
Tavakoli, Mahdi	Univ. of Alberta
Marquez, Horacio J.	Univ. of Alberta

MoC10 Hamilton

Adaptive Control II (Regular Session)

Chair: Nazin, Alexander V.	Inst. of Control Sciences RAS
Co-Chair: Chen, Xinkai	Shibaura Inst. of Tech.

16:30-16:50 MoC10.1

Bandit Problems in Networks: Asymptotically Efficient Distributed Allocation Rules, pp. 1771-1778.

Kar, Soumya	Princeton Univ.
Poor, H. Vincent	Princeton Univ.
Cui, Shuguang	Texas A&M Univ.

16:50-17:10 MoC10.2

The Mirror Descent Control Algorithm for Weakly Regular Homogeneous Finite Markov Chains with Unknown Mean Losses

(I), pp. 1779-1783.	
Nazin, Alexander V.	Inst. of Control Sciences RAS
Miller, Boris	Monash Univ.
17:10-17:30	MoC10.3
<i>Multivariable State Feedback for Output Tracking MRAC for Piecewise Linear Systems</i> , pp. 1784-1789.	
Sang, Qian	Univ. of Virginia
Tao, Gang	Univ. of Virginia
17:30-17:50	MoC10.4
<i>Adaptive Control for Continuous-Time Systems in the Presence of Actuator and Sensor Hysteresis</i> , pp. 1790-1795.	
Chen, Xinkai	Shibaura Inst. of Tech.
Feng, Ying	Concordia Univ.
Su, Chun-Yi	Concordia Univ.
17:50-18:10	MoC10.5
<i>A Reproducing Kernel Hilbert Space Approach for the Online Update of Radial Bases in Neuro-Adaptive Control</i> , pp. 1796-1802.	
Kingravi, Hassan	Georgia Inst. of Tech.
Chowdhary, Girish	Georgia Inst. of Tech.
Vela, Patricio A.	Georgia Inst. of Tech.
Johnson, Eric N.	Georgia Inst. of Tech.
MoC11	Indian River
Discrete Event Systems III (Regular Session)	
Chair: Lopes, Gabriel	Delft Univ. of Tech.
Co-Chair: van Schuppen, Jan H.	CWI
16:30-16:50	MoC11.1
<i>Synthesis of Communicating Controllers for Distributed Systems</i> , pp. 1803-1810.	
Kalyon, Gabriel	Univ. Libre de Bruxelles (ULB)
Le Gall, Tristan	CEA LIST
Marchand, Herve	IRISA/INRIA Rennes
Massart, Thierry	Univ. Libre de Bruxelles
16:50-17:10	MoC11.2
<i>Supervisory Control of Concurrent Discrete-Event Systems</i> , pp. 1811-1816.	
Su, Rong	Nanyang Tech. Univ.
17:10-17:30	MoC11.3
<i>Hierarchical Control with Partial Observations: Sufficient Conditions</i> , pp. 1817-1822.	
Boutin, Olivier	CWI
Komenda, Jan	Czech Acad. of Sciences
Masopust, Tomas	Czech Acad. of Sciences
Schmidt, Klaus	Cankaya Univ.
van Schuppen, Jan H.	CWI
17:30-17:50	MoC11.4
<i>On the Eigenstructure of a Class of Max-Plus Linear Systems</i> , pp. 1823-1828.	
Lopes, Gabriel	Delft Univ. of Tech.
Kersbergen, Bart	Delft Univ. of Tech.
van den Boom, Ton J. J.	Delft Univ. of Tech.
De Schutter, Bart	Delft Univ. of Tech.
Babuska, R.	Delft Univ. of Tech.
17:50-18:10	MoC11.5
<i>Data Demand Dynamics and Profit Maximization in Communications Markets</i> , pp. 1829-1833.	
Ren, Shaolei	Univ. of California, Los Angeles
van der Schaar, Mihaela	Univ. of California Los Angeles

Switched Systems III (Regular Session)

Chair: Blanchini, Franco	Univ. degli Studi di Udine
Co-Chair: Petreczky, Mihaly	Maastricht Univ.
16:30-16:50	MoC12.1
<i>Is Stabilization of Switched Positive Linear Systems Equivalent to the Existence of an Hurwitz Convex Combination of the System Matrices?</i> , pp. 1834-1839.	
Blanchini, Franco	Univ. degli Studi di Udine
Colaneri, Patrizio	Pol. di Milano
Valcher, Maria Elena	Univ. di Padova
16:50-17:10	MoC12.2
<i>On the Notion of Persistence of Excitation for Linear Switched Systems</i> , pp. 1840-1847.	
Petreczky, Mihaly	Maastricht Univ.
Bako, Laurent	Ec. des Mines de Douai
17:10-17:30	MoC12.3
<i>H_∞ Control of Discrete-Time Switched It^o Stochastic Systems Via Dynamic Output Feedback</i> , pp. 1848-1853.	
Wu, Ligang	Harbin Inst. of Tech.
Ho, Daniel W. C.	City Univ. of Hong Kong
17:30-17:50	MoC12.4
<i>Active Mode and Switching Time Estimation for Switched Linear Systems</i> , pp. 1854-1859.	
Mincarelli, Diego	INRIA
Floquet, Thierry	CNRS
Belkoura, Lotfi	Univ. Des Sciences Et Tech. De Lille
17:50-18:10	MoC12.5
<i>An Overview on Averaging for Pulse-Modulated Switched Systems</i> , pp. 1860-1865.	
Pedicini, Carmen	Univ. of Sannio
Vasca, Francesco	Univ. of Sannio
Iannelli, Luigi	Univ. of Sannio in Benevento
Jonsson, Ulf T.	Royal Inst. of Tech. (KTH)

MoC13**Linear Systems III (Regular Session)**

Manatee

Chair: Zelazo, Daniel	Univ. Stuttgart
Co-Chair: Korogui, Rubens H.	UNESP Sorocaba
16:30-16:50	MoC13.1
<i>Hoo Control Design for Time-Delay Linear Systems: A Rational Transfer Function Based Approach</i> , pp. 1866-1871.	
Korogui, Rubens H.	UNESP Sorocaba
Fioravanti, Andre R.	UNICAMP
Geromel, Jose C.	UNICAMP
16:50-17:10	MoC13.2
<i>Stabilization of Abstract Delay Systems on Banach Lattices Using Nonnegative Semigroups</i> , pp. 1872-1877.	
Hashimoto, Tomoaki	Osaka Univ.
17:10-17:30	MoC13.3
<i>Stability and Stabilization of 2D Continuous State-Delayed Systems</i> , pp. 1878-1883.	
Ghamgui, Mariem	ENSIP-LAI
Yeganefar, Nima	Laii
Bachelier, Olivier	Univ. of Poitiers
Mehdi, Driss	ESIP-LAI
Mercère, Guillaume	Univ. of Poitiers
17:30-17:50	MoC13.4
<i>H Infinity Robust Design of PID Controllers for Arbitrary-Order LTI Systems with Time Delay</i> , pp. 1884-1889.	
Ou, Linlin	Zhejiang Univ. of Tech.
Zhou, Peidong	Zhejiang Univ. of Tech.
Zhang, Weidong	Shanghai Jiaotong Univ.

Yu, Li	Zhejiang Univ. of Tech.
17:50-18:10	MoC13.5
<i>On the Zeros of Consensus Networks</i> , pp. 1890-1895.	
Briegel, Benjamin	Univ. Stuttgart
Zelazo, Daniel	Univ. Stuttgart
Bürger, Mathias	Univ. of Stuttgart
Allgower, Frank	Univ. of Stuttgart
MoC14	Sarasota
Predictive Control for Linear Systems III (Regular Session)	
Chair: Calafiore, Giuseppe	Pol. di Torino
Co-Chair: Jørgensen, John Bagterp	Tech. Univ. of Denmark
16:30-16:50	MoC14.1
<i>Finite Horizon MPC for Systems in Innovation Form</i> , pp. 1896-1903.	
Jørgensen, John Bagterp	Tech. Univ. of Denmark
Huusom, Jakob Kjøbsted	Tech. Univ. of Denmark
Rawlings, James B.	Univ. of Wisconsin-Madison
16:50-17:10	MoC14.2
<i>Interpolation in Output-Feedback Tube-Based Robust MPC</i> , pp. 1904-1909.	
Balandat, Maximilian	Univ. of California, Berkeley
17:10-17:30	MoC14.3
<i>Robust Model Predictive Control Via Random Convex Programming</i> , pp. 1910-1915.	
Calafiore, Giuseppe	Pol. di Torino
Fagiano, Lorenzo	Pol. di Torino/Univ. California at Santa Barbara
17:30-17:50	MoC14.4
<i>A Memory-Efficient Representation of Explicit MPC Solutions</i> , pp. 1916-1921.	
Szucs, Alexander	STU
Kvasnica, Michal	Slovak Univ. of Tech. in Bratislava
Fikar, Miroslav	Slovak Univ. of Tech. in Bratislava
17:50-18:10	MoC14.5
<i>Improving Industrial MPC Performance with Data-Driven Disturbance Modeling</i> , pp. 1922-1927.	
Sun, Zhijie	Univ. of Southern California
Zhao, Yu	Univ. of Southern California
Qin, S. Joe	Univ. of Southern California
MoC15	Union
Time Varying Systems II (Regular Session)	
Chair: Sato, Masayuki	Japan Aerospace Exploration Agency
Co-Chair: Szabo, Zoltan	Hungarian Acad. of Sciences
16:30-16:50	MoC15.1
<i>Input-Output Finite-Time Stabilization of LTV Systems Via Dynamic Output Feedback</i> , pp. 1928-1932.	
Amato, Francesco	Univ. Magna Graecia di Catanzaro
Carannante, Giuseppe	Univ. degli Studi di Napoli Federico II
De Tommasi, Gianmaria	Univ. degli Studi di Napoli "Federico II"
Pironti, Alfredo	Univ. degli Studi di Napoli Federico II
16:50-17:10	MoC15.2
<i>Necessary and Sufficient Conditions for Input-Output Finite-Time Stability of Linear Time-Varying Systems</i> , pp. 1933-1937.	
Amato, Francesco	Univ. Magna Graecia di Catanzaro
Carannante, Giuseppe	Univ. degli Studi di Napoli Federico II
De Tommasi, Gianmaria	Univ. degli Studi di Napoli "Federico II"
Pironti, Alfredo	Univ. degli Studi di Napoli Federico II
17:10-17:30	MoC15.3

Discrete-Time Gain-Scheduled Output-Feedback Controllers Exploiting Inexact Scheduling Parameters Via Parameter-Dependent Lyapunov Functions, pp. 1938-1943.

Sato, Masayuki

Japan Aerospace Exploration Agency

17:30-17:50

MoC15.4

Discrete Inversion Based FDI for Sampled LPV Systems, pp. 1944-1949.

Szabo, Zoltan

Hungarian Acad. of Sciences

Edelmayer, András

Hungarian Acad. of Sciences

Bokor, Jozsef

MTA SZTAKI Hungarian Acad. of Sciences

17:50-18:10

MoC15.5

A Toolbox for the Analysis of Linear Systems with Delays, pp. 1950-1955.

Anritter, Felix

Univ. der Bundeswehr München

Middeke, Johannes

Res. Inst. for Symbolic Computation (RISC)

MoC16

Palm Beach

Cooperative Control and Autonomous Systems II (Regular Session)

Chair: Ishii, Hideaki

Tokyo Inst. of Tech.

Co-Chair: Yu, CHANGBIN (Brad)

The Australian National Univ.

16:30-16:50

MoC16.1

Average Consensus on General Digraphs, pp. 1956-1961.

Cai, Kai

Tokyo Inst. of Tech.

Ishii, Hideaki

Tokyo Inst. of Tech.

16:50-17:10

MoC16.2

Distributed Attitude Synchronization Control, pp. 1962-1967.

Thunberg, Anders, Johan

Royal Inst. of Tech.

Montijano, Eduardo

Univ. of Zaragoza

Hu, Xiaoming

Royal Inst. of Tech.

17:10-17:30

MoC16.3

Request-Based Gossiping, pp. 1968-1973.

Liu, Ji

Yale Univ.

Mou, Shaoshuai

Yale Univ.

Morse, A. Stephen

Yale Univ.

Anderson, Brian D.O.

Australian National Univ.

Yu, CHANGBIN (Brad)

The Australian National Univ.

17:30-17:50

MoC16.4

Contractions for Consensus Processes, pp. 1974-1979.

Liu, Ji

Yale Univ.

Morse, A. Stephen

Yale Univ.

Anderson, Brian D.O.

Australian National Univ.

Yu, CHANGBIN (Brad)

The Australian National Univ.

17:50-18:10

MoC16.5

Voronoi Coverage Control with Time-Driven Communication for Mobile Sensing Networks with Obstacles, pp. 1980-1985.

Teraoka, Saori

Osaka Univ.

Ushio, Toshimitsu

Osaka Univ.

Kanazawa, Takafumi

Osaka Univ.

MoC17

Alachua

Distributed Parameter Systems III (Invited Session)

Chair: Demetriou, Michael A.

Worcester Pol. Inst.

Co-Chair: Schuster, Eugenio

Lehigh Univ.

Organizer: Demetriou, Michael A.

Worcester Pol. Inst.

16:30-16:50

MoC17.1

Lyapunov Based Guidance of a Mobile Sensing Agent for State Estimation of a Gaseous Source in a 3D Spatial Domain (I), pp. 1986-1992.

Demetriou, Michael A.	Worcester Pol. Inst.
Gatsonis, Nikolaos	Worcester Pol. Inst.
Court, Jeffrey	Worcester Pol. Inst.
16:50-17:10	MoC17.2
<i>Backstepping Control of Density and Energy Profiles in a Burning Tokamak Plasma (I)</i> , pp. 1993-1998.	
Boyer, Mark D.	Lehigh Univ.
Schuster, Eugenio	Lehigh Univ.
17:10-17:30	MoC17.3
<i>Root Locus for Infinite-Dimensional Systems (I)</i> , pp. 1999-2003.	
Jacob, Birgit	Univ. of Wuppertal
Morris, Kirsten	Univ. of Waterloo
17:30-17:50	MoC17.4
<i>Predictive Control of PDEs Using Adaptive Reduced Order Modeling (I)</i> , pp. 2004-2009.	
Pitchaiah, Sivakumar	Pennsylvania state Univ.
Armaou, Antonios	The Pennsylvania State Univ.
17:50-18:10	MoC17.5
<i>Observer-Based LPV Control of a Nonlinear PDE</i> , pp. 2010-2015.	
Hashemi, Seyed Mahdi	Hamburg Univ. of Tech.
Werner, Herbert	Hamburg Univ. of Tech.
MoC18	Baker
Robust Control III (Regular Session)	
Chair: Chen, YangQuan	Utah State Univ.
Co-Chair: Liu, Tengfei	The Australian National Univ.
16:30-16:50	MoC18.1
<i>Robust Control under Weakened Real-Time Constraints</i> , pp. 2016-2021.	
Andrianiaina, Patrick Jocelyn	Airbus Operations SAS & Inria Rhône Alpes
Seuret, Alexandre	CNRS
Simon, Daniel	Inria Grenoble Rhône-Alpes
16:50-17:10	MoC18.2
<i>Robust Design of Dead-Time Compensator Controllers for Constrained Non-Linear Systems</i> , pp. 2022-2027.	
Limon, Daniel	Univ. de Sevilla
Pomar, Martín	Departamento de Automação e Sistemas. Univ. Federal de San
Normey-Rico, Julio Elias	Federal Univ. of Santa Catarina
Santos, Tito Luís	Federal Univ. of Santa Catarina
Camacho, Eduardo F.	Univ. of Sevilla
17:10-17:30	MoC18.3
<i>Robust Stability Properties of the Nu-Gap Metric for Time-Varying Systems</i> , pp. 2028-2033.	
Khong, Sei Zhen	Univ. of Melbourne
Cantoni, Michael	Univ. of Melbourne
Jonsson, Ulf T.	Royal Inst. of Tech. (KTH)
17:30-17:50	MoC18.4
<i>Robust Control of Nonlinear Strict-Feedback Systems with Measurement Errors</i> , pp. 2034-2039.	
Liu, Tengfei	The Australian National Univ.
Jiang, Zhong-Ping	Pol. Inst. NYU
Hill, David J.	The Univ. of Sydney
17:50-18:10	MoC18.5
<i>Stabilizing and Robust FOPI Controller Synthesis for First Order Plus Time Delay Systems</i> , pp. 2040-2045.	
Luo, Ying	Utah State Univ.
Chen, YangQuan	Utah State Univ.

MoC19

Bay

Autonomous Systems (Regular Session)

Chair: Lee, Ji-Woong	Pennsylvania State Univ.
Co-Chair: Khorrami, Farshad	Pol. Inst. of NYU
16:30-16:50	MoC19.1
<i>Multi-Robot 3D Coverage of Unknown Terrains</i> , pp. 2046-2051.	
Renzaglia, Alessandro	INRIA Rhone-Alpes
Doitsidis, Lefteris	Tech. Educational Inst. of Crete
Martinelli, Agostino	INRIA
Kosmatopoulos, Elias	Democritus Univ. Thrace & ITI/CERTH
16:50-17:10	MoC19.2
<i>Optimal Synthesis for Finite-Time Consensus under Fixed Graphs</i> , pp. 2052-2057.	
Ghosh, Supratim	The Pennsylvania State Univ.
Lee, Ji-Woong	Pennsylvania State Univ.
17:10-17:30	MoC19.3
<i>Model Predictive Control of Remotely Operated Underwater Vehicles</i> , pp. 2058-2063.	
Fernandez, Gerardo	Univ. Simon Bolivar
Dunia, Ricardo	The Univ. of Texas at Austin
Molero, Alexander	PDVSA INTEVEP
Cappelletto, Jose	Univ. Simon Bolivar
17:30-17:50	MoC19.4
<i>Probabilistic Certification of Pan-Tilt-Zoom Camera Surveillance Systems</i> , pp. 2064-2069.	
Raimondo, Davide Martino	Univ. degli Studi di Pavia
Kariotoglou, Nikolaos	Automatic Control Lab. Swiss Federal Inst. of Tech.
Summers, Sean	ETH Zurich
Lygeros, John	ETH Zurich
17:50-18:10	MoC19.5
<i>A Hierarchical Control and Obstacle Avoidance System for Unmanned Sea Surface Vehicles</i> , pp. 2070-2075.	
Krishnamurthy, Prashanth	FarCo Tech. Inc.
Khorrami, Farshad	Pol. Inst. of NYU

MoC20

Broward

Stochastic Systems III (Regular Session)

Chair: Fradkov, Alexander	Inst. for Problems of Mech. Eng.
Co-Chair: Poznyak, Alexander S.	CINVESTAV-IPN
16:30-16:50	MoC20.1
<i>Continuous-Time Averaged Models of Discrete-Time Stochastic Systems: Survey and Open Problems (I)</i> , pp. 2076-2081.	
Fradkov, Alexander	Inst. for Problems of Mech. Eng.
16:50-17:10	MoC20.2
<i>Averaged Attractive Ellipsoid Technique Applied to Inventory Projection Control with Uncertain Stochastic Demands (I)</i> , pp. 2082-2087.	
Alazki, Hussain	CINVESTAV
Poznyak, Alexander S.	CINVESTAV-IPN
17:10-17:30	MoC20.3
<i>Average Consensus and Gossip Algorithms in Networks with Stochastic Asymmetric Communications</i> , pp. 2088-2093.	
Antunes, Duarte	Inst. Superior Tecnico, Lisbon
Silvestre, Daniel	Inst. Superior Tecnico
Silvestre, Carlos	Inst. Superior Tecnico
17:30-17:50	MoC20.4
<i>Fault Detection and Diagnosis for General Discrete-Time Stochastic Systems Using Output Probability Density Estimation</i> , pp. 2094-2099.	
Skaf, Zakwan	The Univ. of Manchester
Al-Bayati, Ahmad	Univ. of Manchester / Electric and Electronic Engineering Sch
Wang, Hong	The Univ. of Manchester

17:50-18:10	MoC20.5
<i>Iterative Fault Tolerant Control Based on Stochastic Distribution</i> , pp. 2100-2105.	
Skaf, Zakwan	The Univ. of Manchester
Al-Bayati, Ahmad	Univ. of Manchester / Electric and Electronic Engineering Sch
Wang, Hong	The Univ. of Manchester
Wang, Aiping	Anhui Univ.
MoC21	Brevard
Agents and Autonomous Systems III (Regular Session)	
Chair: Jadbabaie, Ali	Univ. of Pennsylvania
Co-Chair: Hadjicostis, Christoforos	Univ. of Cyprus
16:30-16:50	MoC21.1
<i>An Internal-Model Principle for the Synchronisation of Autonomous Agents with Individual Dynamics</i> , pp. 2106-2111.	
Lunze, Jan	Ruhr-Univ. Bochum
16:50-17:10	MoC21.2
<i>Coordinated Networked Estimation Strategies Using Structured Systems Theory</i> , pp. 2112-2117.	
Khan, Usman	Tufts Univ.
Jadbabaie, Ali	Univ. of Pennsylvania
17:10-17:30	MoC21.3
<i>White Noise Disturbance and Topological Heterogeneity Analysis for the Hybrid Consensus Protocol</i> , pp. 2118-2123.	
Zhang, Haopeng	Texas Tech. Univ.
Mullen, Sean	Texas Tech. Univ.
Hui, Qing	Texas Tech. Univ.
17:30-17:50	MoC21.4
<i>Distributed Strategies for Average Consensus in Directed Graphs</i> , pp. 2124-2129.	
Dominguez-Garcia, Alejandro	Univ. of Illinois at Urbana-Champaign
Hadjicostis, Christoforos	Univ. of Cyprus
17:50-18:10	MoC21.5
<i>L2 Gain Stability Analysis of Event-Triggered Agreement Protocols</i> , pp. 2130-2135.	
Dimarogonas, Dimos V.	Royal Inst. of Tech.
MoC22	Bradford
System Identification III (Regular Session)	
Chair: Bernstein, Dennis S.	Univ. of Michigan
Co-Chair: Bokor, Jozsef	MTA SZTAKI Hungarian Acad. of Sciences
16:30-16:50	MoC22.1
<i>Pole Structure Estimation from Laguerre Representations Using Hyperbolic Metrics on the Unit Disc</i> , pp. 2136-2141.	
Soumelidis, Alexandros	Computer and Automation Res. Inst.
Schipp, Ferenc	Eotvos Lorand Univ. of Budapest
Bokor, Jozsef	MTA SZTAKI Hungarian Acad. of Sciences
16:50-17:10	MoC22.2
<i>Retrospective-Cost-Based Model Refinement for System Emulation and Subsystem Identification</i> , pp. 2142-2147.	
Morozov, Alexey	Univ. of Michigan
Ali, Asad	Univ. of Michigan
D'Amato, Anthony	Univ. of Michigan
Ridley, Aaron	Univ. of Michigan
Kukreja, Sunil, L.	NASA Dryden Flight Res. Center
Bernstein, Dennis S.	Univ. of Michigan
17:10-17:30	MoC22.3
<i>User Friendly Box-Jenkins Identification Using Nonparametric Noise Models</i> , pp. 2148-2153.	
Schoukens, Johan	Vrije Univ. Brussels
Rolain, Yves J.	Vrije Univ. Brussels

Vandersteen, Gerd G.
Pintelon, Rik M.

Vrije Univ. Brussels
Vrije Univ. Brussels

17:30-17:50

MoC22.4

Identification of Sensor-Only MIMO Pseudo Transfer Functions, pp. 2154-2159.

Brzezinski, Adam
Kukreja, Sunil, L.
Ni, Jun
Bernstein, Dennis S.

Univ. of Michigan - Ann Arbor
NASA Dryden Flight Res. Center
Univ. of Michigan
Univ. of Michigan

17:50-18:10

MoC22.5

A Least Squares Approach to Direct Frequency Response Estimation, pp. 2160-2165.

Hägg, Per
Hjalmarsson, Håkan
Wahlberg, Bo

KTH Royal Inst. of Tech.
Royal Inst. of Tech.
KTH Royal Inst. of Tech.

Technical Program for Tuesday December 13, 2011

TuPL	Bonnet Creek Ballroom VI & IX
Universal Laws and Architectures (Plenary Session)	
Chair: Polycarpou, Marios M.	Univ. of Cyprus
08:30-09:30	TuPL.1
<i>Universal Laws and Architectures*</i>	
Doyle, John C.	California Inst. of Tech.
TuA01	Orange
Smart Grid Integration of Renewable Energy (Invited Session)	
Chair: Annaswamy, Anuradha	Massachusetts Inst. of Tech.
Co-Chair: Stoustrup, Jakob	Aalborg Univ.
Organizer: Annaswamy, Anuradha	Massachusetts Inst. of Tech.
Organizer: Stoustrup, Jakob	Aalborg Univ.
Organizer: Baillieul, John	Boston Univ.
Organizer: Caramanis, Michael C.	Boston Univ.
10:00-10:20	TuA01.1
<i>Optimal Control of Cascading Power Grid Failures (I)</i> , pp. 2166-2173.	
Bienstock, Daniel	Columbia Univ.
10:20-10:40	TuA01.2
<i>Exact and Efficient Algorithm to Discover Extreme Stochastic Events in Wind Generation Over Transmission Power Grids (I)</i> , pp. 2174-2180.	
Chertkov, Michael	Los Alamos National Lab.
Stepanov, Mikhail	Univ. of Arizona, Tucson
Pan, Feng	Los Alamos National Lab.
Baldick, Ross	Univ. of Texas, Austin
10:40-11:00	TuA01.3
<i>Cascade Mitigation in Energy Hub Networks (I)</i> , pp. 2181-2188.	
Almassalkhi, Mads	Univ. of Michigan
Hiskens, Ian A.	Univ. of Michigan
11:00-11:20	TuA01.4
<i>Wide-Area Damping Control of Large Power Systems Using a Model Reference Approach (I)</i> , pp. 2189-2194.	
Chakraborty, Aranya	North Carolina State Univ.
11:20-11:40	TuA01.5
<i>Cyber-Physical Attacks in Power Networks: Models, Fundamental Limitations and Monitor Design (I)</i> , pp. 2195-2201.	
Pasqualetti, Fabio	Univ. of California, Santa Barbara
Dörfler, Florian	Univ. of California at Santa Barbara
Bullo, Francesco	Univ. California at Santa Barbara
11:40-12:00	TuA01.6
<i>Wholesale Energy Market in a Smart Grid: Dynamic Modeling and Stability (I)</i> , pp. 2202-2207.	
Kiani, Arman	Tech. Univ. of Munich
Annaswamy, Anuradha	Massachusetts Inst. of Tech.
TuA02	Dixie
Identification and Analysis of Biomolecular Networks (Invited Session)	
Chair: Blanchini, Franco	Univ. degli Studi di Udine
Co-Chair: Belta, Calin	Boston Univ.
Organizer: Julius, Agung	Rensselaer Pol. Inst.
Organizer: Belta, Calin	Boston Univ.
10:00-10:20	TuA02.1
<i>Genetic Regulatory Network Identification Using Multivariate Monotone Functions (I)</i> , pp. 2208-2213.	
Cooper, Nicholas	Rensselaer Pol. Inst.

Belta, Calin Julius, Agung	Boston Univ. Rensselaer Pol. Inst.
10:20-10:40	TuA02.2
<i>Multistability and Robustness of the MAPK Pathway (I)</i> , pp. 2214-2219.	
Blanchini, Franco Franco, Elisa	Univ. degli Studi di Udine Univ. of California at Riverside
10:40-11:00	TuA02.3
<i>Retroactivity Attenuation in Signaling Cascades (I)</i> , pp. 2220-2226.	
Ossareh, Hamid R. Del Vecchio, Domitilla	Univ. of Michigan Massachusetts Institute of Tech.
11:00-11:20	TuA02.4
<i>Integration of Large-Scale Metabolic, Signaling, and Gene Regulatory Networks with Application to Infection Responses (I)</i> , pp. 2227-2232.	
Richard, Guilhem Chang, H.J. Cizelj, Igor Belta, Calin Julius, Agung Amar, Salomon	Boston Univ. Imperial Coll. London Boston Univ. Boston Univ. Rensselaer Pol. Inst. Boston Univ.
11:20-11:40	TuA02.5
<i>Input Symmetry Invariance, and Applications to Biological Systems (I)</i> , pp. 2233-2238.	
Shoval, Oren Alon, Uri Sontag, Eduardo D.	Weizmann Inst. of Science Weizmann Inst. of Science Rutgers Univ.
11:40-12:00	TuA02.6
<i>Efficient Stochastic Simulation of Metastable Markov Chains (I)</i> , pp. 2239-2244.	
Miliadis-Argeitis, Andreas Lygeros, John	ETH Zurich ETH Zurich
TuA03	Columbia
Fault Tolerant Systems (Regular Session)	
Chair: Wang, Junmin Co-Chair: Edwards, Christopher	The Ohio State Univ. Univ. of Leicester
10:00-10:20	TuA03.1
<i>A Lane Control Mechanism with Fault Tolerant Control Capabilities</i> , pp. 2245-2250.	
Stoican, Florin Minoiu Enache, Nicoleta Olaru, Sorin	SUPELEC RENAULT SAS Supelec
10:20-10:40	TuA03.2
<i>Fault Estimation and Virtual Sensor FTC Approach for LPV Systems</i> , pp. 2251-2256.	
Montes de Oca, Saúl Rotondo, Damiano Nejjari, Fatiha Puig, Vicenc	Univ. Pol. de Catalunya UPC Univ. Pol. de Catalunya Univ. Pol. de Catalunya
10:40-11:00	TuA03.3
<i>Online Selection of H_∞ Controllers for a Faulty Linear System</i> , pp. 2257-2262.	
Liu, Lijun Shen, Yi Zhu, Chunhui Dowell, Earl H.	Harbin Inst. of Tech. & Duke Univ. Harbin Inst. of Tech. Harbin Inst. of Tech. Duke Univ.
11:00-11:20	TuA03.4
<i>Passive Fault Tolerant Control of a Class of Over-Actuated Nonlinear Systems and Applications to Electric Vehicles</i> , pp. 2263-2268.	

Wang, Rongrong	Ohio State Univ.
Wang, Junmin	The Ohio State Univ.
11:20-11:40	TuA03.5
<i>A Novel Active Fault Tolerant Control Design with Respect to Actuators Reliability</i> , pp. 2269-2274.	
Khelassi, Ahmed	Nancy Univ.
Theilliol, Didier	Nancy Univ.
Weber, Philippe	Nancy Univ.
Sauter, Dominique D.J.	Univ. Henri Poincare, Nancy 1
11:40-12:00	TuA03.6
<i>An Output Integral Sliding Mode FTC Scheme Using Control Allocation</i> , pp. 2275-2280.	
Hamayun, Mirza Tariq	Univ. of Leicester
Alwi, Halim	Univ. of Leicester
Edwards, Christopher	Univ. of Leicester
TuA04	Nassau
Emerging Control Applications (Regular Session)	
Chair: Kerrigan, Eric C.	Imperial Coll. London
Co-Chair: Sbarbaro, Daniel G.	Univ. de Concepcion
10:00-10:20	TuA04.1
<i>A New Force Feedback for Steer-By-Wire Vehicles Via Virtual Vehicle Concept</i> , pp. 2281-2286.	
Mehdizadeh, Emad	Amirkabir Univ. of Tech.
Kabganian, Mansour	Amirkabir Univ. of Tech.
Kazemi, Reza	K. N. Toosi Univ. of Tech.
10:20-10:40	TuA04.2
<i>Pantograph Catenary Control and Observation Using the LMI Approach</i> , pp. 2287-2292.	
Rachid, Ahmed	Univ. de Picardie-Jules Verne
10:40-11:00	TuA04.3
<i>Interactive MRI Segmentation with Controlled Active Vision</i> , pp. 2293-2298.	
Karasev, Peter	Georgia Inst. of Tech.
Kolesov, Ivan	Georgia Inst. of Tech.
Chudy, Karol	Georgia Inst. of Tech.
Tannenbaum, Allen	Georgia Tech.
Muller, Grant	Emory Univ.
Xerogeanes, John	Emory Univ.
11:00-11:20	TuA04.4
<i>Solving a Positive Definite System of Linear Equations Via the Matrix Exponential</i> , pp. 2299-2304.	
Hasan, Ammar	Imperial Coll. London
Kerrigan, Eric C.	Imperial Coll. London
Constantinides, George A.	Imperial Coll. London
11:20-11:40	TuA04.5
<i>About Structure Preserving Feedback of Controlled Contact Systems</i> , pp. 2305-2310.	
Ramirez Estay, Hector M.	Univ. Claude Bernard Lyon 1
Maschke, Bernhard	Univ. Claude Bernard of Lyon
Sbarbaro, Daniel G.	Univ. de Concepcion
11:40-12:00	TuA04.6
<i>Observer Design for Nonlinear Processes with Wiener Structure</i> , pp. 2311-2316.	
Glaría López, Tomás Ángel	Univ. de Concepción
Sbarbaro, Daniel G.	Univ. de Concepcion
TuA05	Taylor
Dynamics Over Complex Networks - I (Invited Session)	
Chair: Yildiz, Mehmet Ercan	MIT
Co-Chair: Ozdaglar, Asuman	MIT

Organizer: Yildiz, Mehmet Ercan	MIT
Organizer: Ozdaglar, Asuman	MIT
10:00-10:20	TuA05.1
<i>On Reduction of Graphs and Markov Chain Models (I)</i> , pp. 2317-2322.	
Xu, Yunwen	Univ. of Illinois at Urbana-Champaign
Salapaka, Srinivasa	Univ. of Illinois
Beck, Carolyn L.	Univ. of Illinois, Urbana-Champaign
10:20-10:40	TuA05.2
<i>System Theory Over Random Consensus Networks: Controllability and Optimality Properties (I)</i> , pp. 2323-2328.	
Nabi Abdolyousefi, Marzieh	Univ. of Washington - DSSL
Mesbahi, Mehran	Univ. of Washington
10:40-11:00	TuA05.3
<i>Diffusion of Innovations in Social Networks (I)</i> , pp. 2329-2334.	
Acemoglu, Daron	MIT
Ozdaglar, Asuman	MIT
Yildiz, Ercan	Accenture Tech. Lab.
11:00-11:20	TuA05.4
<i>Aggregate Observational Distinguishability Is Necessary and Sufficient for Social Learning (I)</i> , pp. 2335-2340.	
Molavi, Pooya	Univ. of Pennsylvania
Jadbabaie, Ali	Univ. of Pennsylvania
11:20-11:40	TuA05.5
<i>On Consensus in a Correlated Model of Network Formation Based on a Polya Urn Process (I)</i> , pp. 2341-2346.	
Fazeli, Arastoo	Univ. of Pennsylvania
Jadbabaie, Ali	Univ. of Pennsylvania
11:40-12:00	TuA05.6
<i>Opinion Fluctuations and Persistent Disagreement in Social Networks (I)</i> , pp. 2347-2352.	
Acemoglu, Daron	MIT
Como, Giacomo	Lund Univ.
Fagnani, Fabio	Pol. Di Torino
Ozdaglar, Asuman	MIT
TuA06	Jackson
Networked Control Systems IV (Regular Session)	
Chair: Dixon, Warren E.	Univ. of Florida
Co-Chair: Pappas, George J.	Univ. of Pennsylvania
10:00-10:20	TuA06.1
<i>Topological Conditions for Wireless Control Networks</i> , pp. 2353-2360.	
Pajic, Miroslav	Univ. of Pennsylvania
Sundaram, Shreyas	Univ. of Waterloo
Pappas, George J.	Univ. of Pennsylvania
Mangharam, Rahul	Univ. of Pennsylvania
10:20-10:40	TuA06.2
<i>Reduced Communication State Estimation for Control of an Unstable Networked Control System</i> , pp. 2361-2368.	
Trimpe, Sebastian	ETH Zurich
D'Andrea, Raffaello	ETH
10:40-11:00	TuA06.3
<i>Ensuring Network Connectivity for Nonholonomic Robots During Rendezvous</i> , pp. 2369-2374.	
Kan, Zhen	Univ. of Florida
Dani, Ashwin	Univ. of Illinois at Urbana-Champaign
Shea, John	Univ. of Florida
Dixon, Warren E.	Univ. of Florida
11:00-11:20	TuA06.4
<i>Information Flow Based Connectivity Maintenance of a Multi-Agent System During Formation Control</i> , pp. 2375-2380.	

Kan, Zhen	Univ. of Florida
Dani, Ashwin	Univ. of Illinois at Urbana-Champaign
Shea, John	Univ. of Florida
Dixon, Warren E.	Univ. of Florida

11:20-11:40 TuA06.5

Robust H-Infinity Output Feedback Control of Discrete-Time Networked Systems with Adaptive Quantizers, pp. 2381-2386.

Rasool, Faiz	Univ. of auckland
Nguang, Sing Kiong	The Univ. of Auckland
Huang, Dan	Shanghai Jiao Tong Univ.

11:40-12:00 TuA06.6

A Two-Port Approach to Networked Feedback Stabilization and Control, Part II: H_∞ Solution, pp. 2387-2392.

Gu, Guoxiang	Louisiana State Univ.
Qiu, Li	Hong Kong Univ. of Sci. & Tech.

TuA07 Escambia

Kalman Filtering I (Regular Session)

Chair: Einicke, Garry A.	CSIRO Australia
Co-Chair: Rohr, Eduardo Rath	Univ. of Newcastle

10:00-10:20 TuA07.1

New Results on Robust State Estimation in Spacecraft Attitude Control, pp. 2393-2398.

Khan, Naeem	Univ. of Leicester
Fekri, Sajjad	Cranfield Univ.
Ahmed, Rihan	Univ. of Leicester
Gu, Dawei	Univ. of Leicester

10:20-10:40 TuA07.2

The Use of Energy Constraints within Filtering and Smoothing, pp. 2399-2403.

Einicke, Garry A.	CSIRO Australia
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10:40-11:00 TuA07.3

H_∞ Kalman Filtering for Rectangular Descriptor Systems with Unknown Inputs, pp. 2404-2409.

Hsieh, Chien-Shu	Ta Hwa Inst. of Tech.
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11:00-11:20 TuA07.4

Gaussian Mixture PHD Filter for Multiple Maneuvering Extended Targets Tracking, pp. 2410-2415.

Li, Wenling	Beihang Univ.
Jia, Yingmin	Beihang Univ.
Du, Junping	Beijing Univ. of Posts and Telecommunications
Yu, Fashan	Henan Pol. Univ.

11:20-11:40 TuA07.5

Kalman Filtering with Intermittent Observations: Bounds on the Error Covariance Distribution, pp. 2416-2421.

Rohr, Eduardo Rath	Univ. of Newcastle
Marelli, Damian	Univ. of Newcastle
Fu, Minyue	Univ. of Newcastle

11:40-12:00 TuA07.6

Kalman Filtering for a Class of Degenerate Systems with Intermittent Observations, pp. 2422-2427.

Rohr, Eduardo Rath	Univ. of Newcastle
Marelli, Damian	Univ. of Newcastle
Fu, Minyue	Univ. of Newcastle

TuA08 Flagler

Learning, Games, Communications and Autonomy (Invited Session)

Chair: Baras, John S.	Univ. of Maryland
Co-Chair: Shamma, Jeff S.	Georgia Inst. of Tech.
Organizer: Baras, John S.	Univ. of Maryland
Organizer: Shamma, Jeff S.	Georgia Inst. of Tech.

10:00-10:20		TuA08.1
<i>Learning in Near-Potential Games (I)</i> , pp. 2428-2433.		
Candogan, Ozan		MIT
Ozdoglar, Asuman		MIT
Parrilo, Pablo A.		Massachusetts Inst. of Tech.
10:20-10:40		TuA08.2
<i>Designing Games for Distributed Optimization (I)</i> , pp. 2434-2440.		
Li, Na		California Inst. of Tech.
Marden, Jason		Univ. of Colorado at Boulder
10:40-11:00		TuA08.3
<i>Game Couplings: Learning Dynamics and Applications (I)</i> , pp. 2441-2446.		
Balcan, Maria Florina		Georgia Inst. of Tech.
Constantin, Florin		Georgia Tech.
Piliouras, Georgios		Georgia Inst. of Tech.
Shamma, Jeff S.		Georgia Inst. of Tech.
11:00-11:20		TuA08.4
<i>Learning Behaviors for Coordination in Networked Systems and a Generalized Consensus Protocol (I)</i> , pp. 2447-2452.		
Hovareshti, Pedram		Univ. of Maryland
Baras, John S.		Univ. of Maryland
11:20-11:40		TuA08.5
<i>Perturbed Learning Automata in Potential Games (I)</i> , pp. 2453-2458.		
Chasparis, Georgios C.		Lund Univ.
Shamma, Jeff S.		Georgia Inst. of Tech.
Rantzer, Anders		Lund Univ.
11:40-12:00		TuA08.6
<i>Necessary and Sufficient Conditions for Stabilizability Subject to Quadratic Invariance (I)</i> , pp. 2459-2466.		
Sabau, Serban		Univ. of Maryland, Coll. Park
Martins, Nuno C.		Univ. of Maryland
TuA09		Gilchrist
Nonlinear Systems III (Regular Session)		
Chair: Xin, Xin		Okayama Prefectural Univ.
Co-Chair: De Persis, Claudio		Sapienza Univ. of Rome
10:00-10:20		TuA09.1
<i>Line-Of-Sight Path-Following Along Regularly Parametrized Curves Solved As a Generic Maneuvering Problem</i> , pp. 2467-2474.		
Skjetne, Roger		Norwegian Univ. of Science and Tech.
Jørgensen, Ulrik		Norwegian Univ. of Science and Tech.
Teel, Andrew R.		Univ. of California at Santa Barbara
10:20-10:40		TuA09.2
<i>Minimum Entropy Approach for Robot Manipulator</i> , pp. 2475-2480.		
Skaf, Zakwan		The Univ. of Manchester
Al-Bayati, Ahmad		Univ. of Manchester / Electric and Electronic Engineering Sch
Wang, Hong		The Univ. of Manchester
10:40-11:00		TuA09.3
<i>Swing-Up Control for a Two-Link Underactuated Robot with a Flexible Elbow Joint: New Results Beyond the Passive Elbow Joint</i> , pp. 2481-2486.		
Xin, Xin		Okayama Prefectural Univ.
11:00-11:20		TuA09.4
<i>A Note on the Deployment of Kinematic Agents by Binary Information</i> , pp. 2487-2492.		
De Persis, Claudio		Univ. of Groningen
Cao, Ming		Univ. of Groningen
Ceragioli, Francesca		Pol. Di Torino
11:20-11:40		TuA09.5

Generalized Incremental Homogeneity, Incremental Observability and Global Observer Design, pp. 2493-2498.

Battilotti, Stefano

Univ. La Sapienza

11:40-12:00

TuA09.6

Approximate Trajectory Tracking Control of a Velocity-Sensorless VTOL Aircraft with Measurement Delays, pp. 2499-2504.

Su, Shanwei

Beijing Univ. of Aeronautics and Astronautics

Lin, Yan

Beijing Univ. of Aeronautics and Astronautics

TuA10

Hamilton

Integrated Vehicle Dynamics and Control I (Invited Session)

Chair: Lu, Jianbo

Ford Motor Company

Co-Chair: Tsiotras, Panagiotis

Georgia Inst. of Tech.

Organizer: Lu, Jianbo

Ford Motor Company

Organizer: Tsiotras, Panagiotis

Georgia Inst. of Tech.

10:00-10:20

TuA10.1

LPV Design of Reconfigurable and Integrated Control for Road Vehicles (I), pp. 2505-2510.

Gaspar, Peter

Computer & Automation Inst. of HAS

Szabo, Zoltan

Hungarian Acad. of Sciences

Bokor, Jozsef

MTA SZTAKI Hungarian Acad. of Sciences

10:20-10:40

TuA10.2

Stability Control of Electric Vehicles with Four Independently Actuated Wheels (I), pp. 2511-2516.

Wang, Rongrong

Ohio State Univ.

Wang, Junmin

The Ohio State Univ.

10:40-11:00

TuA10.3

Integrated Electric Vehicle Control by Differential Parameterization (I), pp. 2517-2522.

Hoedt, Jens

TU Darmstadt

Konigorski, Ulrich

Tech. Univ. Darmstadt

11:00-11:20

TuA10.4

Speed and Acceleration Controllers for a Light Electric Two-Wheeled Vehicle (I), pp. 2523-2528.

Dardanelli, Andrea

Pol. di Milano

Tanelli, Mara

Pol. di Milano

Picasso, Bruno

Pol. di Milano

Savaresi, Sergio M.

Pol. Di Milano

Di Tanna, Onorino

Piaggio & C. S.p.A.

Mario, Santucci

Piaggio & C. S.p.A.

11:20-11:40

TuA10.5

Smart Management of Actuator Saturation in Integrated Vehicle Control (I), pp. 2529-2534.

Bianchi, Domenico

Univ. of L'Aquila

Borri, Alessandro

Univ. of L'Aquila

Di Gennaro, Stefano

Univ. of L'Aquila

Di Benedetto, M. Domenica

Univ. of L'Aquila

Castillo-Toledo, Bernardino

CINVESTAV-GDL, Mexico

11:40-12:00

TuA10.6

A Decentralized Control Technique for Vehicle Chassis Control (I), pp. 2535-2540.

Villegas, Carlos

Wavebob Ltd.

Chow, Yin-Lam

Purdue Univ.

Corless, Martin J.

Purdue Univ.

Shorten, Robert

Nat. Univ. of Ireland

Griggs, Wynita M.

National Univ. of Ireland, Maynooth

TuA11

Indian River

Recent Advances in Event-Triggered Control I (Invited Session)

Chair: Heemels, Maurice

Eindhoven Univ. of Tech.

Co-Chair: Hirche, Sandra

Tech. Univ. München

Organizer: Heemels, W.P.M.H.	Eindhoven Univ. of Tech.
Organizer: Hirche, Sandra	Tech. Univ. München
Organizer: Johansson, Karl H.	Royal Inst. of Tech.
10:00-10:20	TuA11.1
<i>Event-Based Control of Nonlinear Systems: An Input-Output Linearization Approach (I)</i> , pp. 2541-2546.	
Stoecker, Christian	Univ. of Bochum, Germany
Lunze, Jan	Ruhr-Univ. Bochum
10:20-10:40	TuA11.2
<i>Decentralized Event-Triggered Control with Asynchronous Updates (I)</i> , pp. 2547-2552.	
Mazo Jr., Manuel	INCAS3 / Univ. of Groningen
Cao, Ming	Univ. of Groningen
10:40-11:00	TuA11.3
<i>Distributed Event-Based Control for Interconnected Linear Systems (I)</i> , pp. 2553-2558.	
Guinaldo, Maria	UNED
Dimarogonas, Dimos V.	Royal Inst. of Tech.
Johansson, Karl H.	Royal Inst. of Tech.
Sánchez Moreno, José	UNED
Dormido, Sebastián	UNED
11:00-11:20	TuA11.4
<i>A Unifying Lyapunov-Based Framework for the Event-Triggered Control of Nonlinear Systems (I)</i> , pp. 2559-2564.	
Postoyan, Romain	CNRS-CRAN
Anta, Adolfo	Max Planck Inst.
Nesic, Dragan	Univ. of Melbourne
Tabuada, Paulo	Univ. of California at Los Angeles
11:20-11:40	TuA11.5
<i>Event-Triggered and Self-Triggered Stabilization of Distributed Networked Control Systems (I)</i> , pp. 2565-2570.	
Postoyan, Romain	CNRS-CRAN
Tabuada, Paulo	Univ. of California at Los Angeles
Nesic, Dragan	Univ. of Melbourne
Anta, Adolfo	Max Planck Inst.
11:40-12:00	TuA11.6
<i>Periodic Event-Triggered Control Based on State Feedback (I)</i> , pp. 2571-2576.	
Heemels, Maurice	Eindhoven Univ. of Tech.
Donkers, Tijs	Eindhoven Univ. of Tech.
Teel, Andrew R.	Univ. of California at Santa Barbara

TuA12	Lake
Linear Systems Estimation (Regular Session)	
Chair: Carnevale, Daniele	Univ. di Roma
Co-Chair: Hovakimyan, Naira	Univ. of Illinois, Urbana-Champaign
10:00-10:20	TuA12.1
<i>A Hybrid Observer for Frequency Estimation of Saturated Multi-Frequency Signals</i> , pp. 2577-2582.	
Carnevale, Daniele	Univ. di Roma
Astolfi, Alessandro	Imperial Coll. & Univ. of Rome
10:20-10:40	TuA12.2
<i>Finite Frequency Approaches to H-Infinity Filtering for Continuous-Time State-Delayed Systems</i> , pp. 2583-2588.	
Gao, Huijun	Harbin Inst. of Tech.
Li, Xianwei	Harbin Inst. of Tech.
Yu, Xinghuo	RMIT Univ.
10:40-11:00	TuA12.3
<i>Prediction, Filtering and Smoothing Using LSCR: State Estimation Algorithms with Guaranteed Confidence Sets</i> , pp. 2589-2594.	
Weyer, Erik	Univ. of Melbourne

Campi, M. C.	Univ. di Brescia
11:00-11:20	TuA12.4
<i>Online Least-Squares Estimation of Time Varying Systems with Sparse Temporal Evolution and Application to Traffic Estimation</i> , pp. 2595-2601.	
Hofleitner, Aude	UC Berkeley
El Ghaoui, Laurent M.	Univ. of California at Berkeley
Bayen, Alexandre M.	Univ. of California at Berkeley
11:20-11:40	TuA12.5
<i>Design of Experiments for Guaranteed Parameter Estimation in Membership Setting</i> , pp. 2602-2607.	
Borchers, Steffen	Otto-von-Guericke Univ. Magdeburg
Findeisen, Rolf	OVG Univ. Magdeburg
11:40-12:00	TuA12.6
<i>Optimal State Estimation Over Gaussian Channels with Noiseless Feedback</i> , pp. 2608-2613.	
Li, Dapeng	UTRC
Hovakimyan, Naira	Univ. of Illinois, Urbana-Champaign
TuA13	Manatee
Control of Fusion Plasmas in Tokamaks (Invited Session)	
Chair: Schuster, Eugenio	Lehigh Univ.
Co-Chair: De Tommasi, Gianmaria	Univ. degli Studi di Napoli "Federico II"
Organizer: Schuster, Eugenio	Lehigh Univ.
Organizer: Pironti, Alfredo	Univ. degli Studi di Napoli Federico II
10:00-10:20	TuA13.1
<i>Cascade and Multibatch Subspace System Identification for Multivariate Vacuum-Plasma Response Characterisation (I)</i> , pp. 2614-2619.	
Olofsson, Erik	Royal Inst. of Tech.
Rojas, Cristian R.	ACCESS Linnaeus Center, KTH
Hjalmarsson, Håkan	Royal Inst. of Tech.
Brunsell, Per	Royal Inst. of Tech.
Drake, James	Royal Inst. of Tech.
10:20-10:40	TuA13.2
<i>Hierarchical Plasma Shape, Position, and Current Control System for ITER (I)</i> , pp. 2620-2625.	
Mitrishkin, Yuri	Russian Acad. of Sciences
Kartsev, Nikolai	Bauman Moscow State Tech. Univ.
10:40-11:00	TuA13.3
<i>Shape Identification for Distributed Parameter Systems and Temperature Profiles in Tokamaks (I)</i> , pp. 2626-2631.	
Witrant, Emmanuel	Univ. Joseph Fourier
Bremond, Sylvain	CEA Cadarache
11:00-11:20	TuA13.4
<i>Multivariable Multi-Model-Based Magnetic Control System for the Current Ramp-Up Phase in the National Spherical Torus Experiment (NSTX) (I)</i> , pp. 2632-2637.	
Shi, Wenyu	Lehigh Univ.
Barton, Justin	Lehigh Univ.
Alsarheed, Majed	Lehigh Univ.
Schuster, Eugenio	Lehigh Univ.
11:20-11:40	TuA13.5
<i>Sliding Mode Stabilization of the Current Profile in Tokamak Plasmas (I)</i> , pp. 2638-2643.	
Gaye, Oumar	CEA - Cadarache
Moulay, Emmanuel	Univ. de Poitiers
Bremond, Sylvain	CEA Cadarache
Autrique, Laurent	ISTIA - Univ. of Angers
Nouailletas, Rémy	CEA - IRFM
Orlov, Yury	CICESE
11:40-12:00	TuA13.6

Exploitation of Modularity in the JET Tokamak Vertical Stabilization System (I), pp. 2644-2649.

Neto, André	Associação EURATOM/ IST
Albanese, R	Univ. Mediterranea di Reggio Calabria
Ambrosino, Giuseppe	Univ. degli Studi di Napoli
Ariola, Marco	Univ. degli Studi di Napoli Parthenope
Artaserse, Giovanni	ENEA/CREATE Fusion Association
Brotas Carvalho, Bernardo	Associação EURATOM/ IST Inst. de Plasmas e Fusão Nuclear – L
Crisanti, Flavio	ENEA Fusion Association
De Tommasi, Gianmaria	Univ. degli Studi di Napoli "Federico II"
Fernandes, Horácio	Associação EURATOM/ IST Inst. de Plasmas e Fusão Nuclear – L
Lomas, Peter	EURATOM-CCFE Fusion Association, Culham Science Centre
Maviglia, Francesco	ENEA/CREATE Fusion Association
Pironti, Alfredo	Univ. degli Studi di Napoli Federico II
Rimini, Fernanda	EURATOM-CCFE Fusion Association, Culham Science Centre
Sartori, Filippo	Euratom/UKAEA Fusion Association

TuA14		Sarasota
Nonlinear Predictive Control I (Regular Session)		
Chair: Kyriakopoulos, Kostas J.		National Tech. Univ. of Athens
Co-Chair: Falugi, Paola		Imperial Coll. London
10:00-10:20		TuA14.1
<i>Tube MPC Scheme Based on Robust Control Invariant Set with Application to Lipschitz Nonlinear Systems</i> , pp. 2650-2655.		
Yu, Shuyou		Univ. of Stuttgart
Chen, Hong		Jilin Univ. Campus NanLing
Allgower, Frank		Univ. of Stuttgart
10:20-10:40		TuA14.2
<i>Tube-Based Model Predictive Control for Nonlinear Systems with Unstructured Uncertainty</i> , pp. 2656-2661.		
Falugi, Paola		Imperial Coll. London
Mayne, David Q.		Imperial Coll. London
10:40-11:00		TuA14.3
<i>Robust Pointwise Min-Norm Control of Distributed Systems with Fluid Flow</i> , pp. 2662-2667.		
Igreja, José Manuel Cardoso		Inst. Superior de Engenharia de Lisboa
Lemos, Joao M.		Inesc-id
Costa, Sérgio J.		Inst. Superior de Engenharia de Lisboa - IPL
11:00-11:20		TuA14.4
<i>Optimal Invariance Via Receding Horizon Control</i> , pp. 2668-2673.		
Gruene, Lars		Univ. of Bayreuth
11:20-11:40		TuA14.5
<i>Explicit Feasible Initialization for Nonlinear MPC with Guaranteed Stability</i> , pp. 2674-2679.		
Schulze Darup, Moritz		Ruhr-Univ. Bochum
Monnigmann, Martin		Ruhr-Univ. Bochum
11:40-12:00		TuA14.6
<i>Reference Governors for Linear Systems with Nonlinear Constraints</i> , pp. 2680-2686.		
Kalabic, Uros		Univ. of Michigan
Kolmanovsky, Ilya V.		The Univ. of Michigan
Gilbert, Elmer G.		Univ. of Michigan, Ann Arbor

TuA15		Union
Formal Methods in Control: Theory II (Invited Session)		
Chair: Julius, Agung		Rensselaer Pol. Inst.
Co-Chair: Mazo Jr., Manuel		INCAS3 / Univ. of Groningen
Organizer: Julius, Agung		Rensselaer Pol. Inst.
Organizer: Mazo Jr., Manuel		INCAS3 / Univ. of Groningen

Organizer: Ozay, Necmiye	California Inst. of Tech.
10:00-10:20	TuA15.1
<i>Stability of Digitally Interconnected Linear Systems (I)</i> , pp. 2687-2692.	
Johnson, Taylor T	Univ. of Illinois at Urbana-Champaign
Mitra, Sayan	Univ. of Illinois
Langbort, Cedric	Univ. of Illinois, Urbana-Champaign
10:20-10:40	TuA15.2
<i>Compositionally Analyzing a Proportional-Integral Controller Family (I)</i> , pp. 2693-2698.	
Tiwari, Ashish	SRI International
10:40-11:00	TuA15.3
<i>Decentralized Control Using Compositional Analysis Techniques (I)</i> , pp. 2699-2704.	
Kerber, Florian	Univ. of Groningen
van der Schaft, Arjan J.	Univ. of Groningen
11:00-11:20	TuA15.4
<i>Using Parameters in Architectural Views to Support Heterogeneous Design and Verification (I)</i> , pp. 2705-2710.	
Rajhans, Akshay	Carnegie Mellon Univ.
Bhave, Ajinkya	Carnegie Mellon Univ.
Loos, Sarah	Carnegie Mellon Univ.
Krogh, Bruce H.	Carnegie Mellon Univ.
Platzer, Andre	Carnegie Mellon Univ.
Garlan, David	Carnegie Mellon Univ.
11:20-11:40	TuA15.5
<i>A Framework for Optimization of Sensor Activation Using Most Permissive Observers (I)</i> , pp. 2711-2717.	
Dallal, Eric	Univ. of Michigan
Lafortune, Stephane	Univ. of Michigan
11:40-12:00	TuA15.6
<i>Synthesis of Distributed Control and Communication Schemes from Global LTL Specifications (I)</i> , pp. 2718-2723.	
Chen, Yushan	Boston Univ.
Ding, Xu Chu	Boston Univ.
Belta, Calin	Boston Univ.
TuA16	Palm Beach
Cooperative Control I (Regular Session)	
Chair: Beard, Randy	Brigham Young Univ.
Co-Chair: Galloway, Kevin	Univ. of Maryland
10:00-10:20	TuA16.1
<i>Portraits of Cyclic Pursuit</i> , pp. 2724-2731.	
Galloway, Kevin	Univ. of Maryland
Justh, Eric	Naval Res. Lab.
Krishnaprasad, P. S.	Univ. of Maryland
10:20-10:40	TuA16.2
<i>Column Formation Control of Multi-Robot Systems with Input Constraints</i> , pp. 2732-2737.	
Chen, Xiaohan	Beihang Univ. (BUAA), Beijing, China
Jia, Yingmin	Beihang Univ.
Du, Junping	Beijing Univ. of Posts and Telecommunications
Yu, Fashan	Henan Pol. Univ.
10:40-11:00	TuA16.3
<i>Chain-Based Path Planning for Multiple UAVs</i> , pp. 2738-2743.	
Argyle, Matthew	Brigham Young Univ.
Chamberlain, Caleb	Brigham Young Univ.
Beard, Randy	Brigham Young Univ.
11:00-11:20	TuA16.4
<i>Asynchronous Dynamic Multi-Group Formation for Swarm Robots</i> , pp. 2744-2749.	

Haghighi, Reza	Nanyang Tech. Univ.
Cheah, C.C.	Nanyang Tech. Univ.
11:20-11:40	TuA16.5
<i>Multi-Robot Distributed Visual Consensus Using Epipoles</i> , pp. 2750-2755.	
Montijano, Eduardo	Univ. of Zaragoza
Thunberg, Anders, Johan	Royal Inst. of Tech.
Hu, Xiaoming	Royal Inst. of Tech.
Sagues, Carlos	Univ. de Zaragoza
TuA17	Alachua
Distributed Parameter Systems IV (Invited Session)	
Chair: Demetriou, Michael A.	Worcester Pol. Inst.
Co-Chair: Winkin, Joseph J.	Univ. of Namur
Organizer: Demetriou, Michael A.	Worcester Pol. Inst.
10:00-10:20	TuA17.1
<i>Modeling and Control of Aggregate Thin Film Surface Morphology Using Stochastic PDEs and a Patterned Deposition Rate Profile (I)</i> , pp. 2756-2763.	
Zhang, Xinyu	Univ. of California, Los Angeles
Huang, Jianqiao	UCLA
Orkoulas, Gerassimos	UCLA
Christofides, Panagiotis D.	Univ. of California at Los Angeles
10:20-10:40	TuA17.2
<i>Statistical Parameter Estimation and Uncertainty Quantification for Macro Fiber Composite Actuators Operating in Nonlinear and Hysteretic Regimes (I)</i> , pp. 2764-2769.	
Hu, Zhengzheng	NCSU
Smith, Ralph C.	North Carolina State Univ.
Hays, Michael	Florida State Univ.
Oates, William	Florida A&M/Florida State Univ.
10:40-11:00	TuA17.3
<i>Distributed Optimal Control of a Dimethyl Ether (DME) Catalytic Distillation Column (I)</i> , pp. 2770-2775.	
Alizadeh Moghadam, Amir	Univ. of Alberta
Aksikas, Ilyasse	King Abdelaziz Univ.
Dubljevic, Stevan	Univ. of Alberta
Forbes, J. Fraser	Univ. of Alberta
11:00-11:20	TuA17.4
<i>Non-Collocated Feedback Stabilization of a Non-Uniform Euler-Bernoulli Beam with In-Domain Actuation (I)</i> , pp. 2776-2781.	
Schröck, Johannes	Univ. of Tech. Vienna
Meurer, Thomas	Vienna Univ. of Tech.
Kugi, Andreas	Vienna Univ. of Tech.
11:20-11:40	TuA17.5
<i>A PDE Approach to the Derivation of the Brayton-Moser Form for Power-Shaping Control (I)</i> , pp. 2782-2787.	
Favache, Audrey	Univ. catholique de Louvain
Dochain, Denis	Univ. Catholique de Louvain
Winkin, Joseph J.	Univ. of Namur
11:40-12:00	TuA17.6
<i>Nonlinear Controllers for Wing Morphing Trajectories of a Heave Dynamics Model (I)</i> , pp. 2788-2793.	
Chakravarthy, Animesh	Wichita State Univ.
Evans, Katie	Louisiana Tech. Univ.
Evers, Johnny	US Air Force
Kuhn, Lisa	Southeastern Louisiana Univ.
TuA18	Baker
Convex Relaxation Techniques in System Identification (Invited Session)	

Chair: Regruto, Diego	Pol. di Torino
Co-Chair: Dabbene, Fabrizio	IEIIT-CNR, Pol. di Torino
Organizer: Regruto, Diego	Pol. di Torino
Organizer: Dabbene, Fabrizio	IEIIT-CNR, Pol. di Torino
Organizer: Rivera, Daniel E.	Arizona State Univ.
10:00-10:20	TuA18.1
<i>Inverse Polynomial Optimization (I)</i> , pp. 2794-2799.	
Lasserre, Jean B.	LAAS-CNRS and Inst. of Mathematics, Univ. of Toulouse
10:20-10:40	TuA18.2
<i>Identification of PWA Models Via Data Compression Based on L1 Optimization (I)</i> , pp. 2800-2805.	
Maruta, Ichiro	Kyoto Univ.
Sugie, Toshiharu	Kyoto Univ.
10:40-11:00	TuA18.3
<i>Set-Membership Identification of ARX Models with Quantized Measurements (I)</i> , pp. 2806-2811.	
Casini, Marco	Univ. di Siena
Garulli, Andrea	Univ. di Siena
Vicino, Antonio	Univ. di Siena
11:00-11:20	TuA18.4
<i>Convex Relaxations for Robust Identification of Wiener Systems and Applications (I)</i> , pp. 2812-2818.	
Yilmaz, Burak	Northeastern Univ.
Ayazoglu, Mustafa	Northeastern Univ.
Sznaier, Mario	Northeastern Univ.
Lagoa, Constantino M.	Pennsylvania State Univ.
11:20-11:40	TuA18.5
<i>Set-Membership Identification of Hammerstein-Wiener Systems (I)</i> , pp. 2819-2824.	
Cerone, Vito	Pol. di Torino
Piga, Dario	Pol. di Torino
Regruto, Diego	Pol. di Torino
11:40-12:00	TuA18.6
<i>Sparse Estimation Based on a Validation Criterion (I)</i> , pp. 2825-2830.	
Rojas, Cristian R.	ACCESS Linnaeus Center, KTH
Hjalmarsson, Håkan	Royal Inst. of Tech.
TuA19	Bay
Robotics III (Regular Session)	
Chair: Rodríguez-Cortés, Hugo	CINVESTAV-IPN
Co-Chair: Lau, Tak Kit	The Chinese Univ. of Hong Kong
10:00-10:20	TuA19.1
<i>Control of Nonholonomic Systems Using Reference Vector Fields</i> , pp. 2831-2836.	
Panagou, Dimitra	National Tech. Univ. of Athens
Tanner, Herbert	Univ. of Delaware
Kyriakopoulos, Kostas J.	National Tech. Univ. of Athens
10:20-10:40	TuA19.2
<i>Trajectory Planning for Manipulators Based on the Optimal Concatenation of LQ Control Primitives</i> , pp. 2837-2842.	
Steinegger, Michael	Tech. Univ. Muenchen
Passenberg, Benjamin	Tech. Univ. Muenchen
Leibold, Marion	TU Muenchen
Buss, Martin	Tech. Univ. Muenchen
10:40-11:00	TuA19.3
<i>Output Maneuvering Control Scheme for a Car-Like Mobile Robot</i> , pp. 2843-2848.	
Rodríguez-Cortés, Hugo	CINVESTAV-IPN
Velasco-Villa, Martin	CINVESTAV-IPN
11:00-11:20	TuA19.4

<i>Throwing Motion Control of the Pendubot and Instability Analysis of the Zero Dynamics</i> , pp. 2849-2855.		
Shoji, Takuya		Tokyo Inst. of Tech.
Sekiguchi, Kazuma		Tokyo Inst. of Tech.
Sampei, Mitsuji		Tokyo Inst. of Tech.
11:20-11:40		TuA19.5
<i>Prisca: A Policy Search Method for Extreme Trajectory Following</i> , pp. 2856-2862.		
Lau, Tak Kit		The Chinese Univ. of Hong Kong
11:40-12:00		TuA19.6
<i>A Robust Adaptive Fuzzy Sliding Mode Controller for Trajectory Tracking of ROVs</i> , pp. 2863-2870.		
Marzbanrad, Alireza		Shiraz Univ.
Eghtesad, Mohammad		Shiraz Univ.
Kamali, Reza		Shiraz Univ.
TuA20		Broward
Stochastic Systems IV (Regular Session)		
Chair: Barmish, B. Ross		Univ. of Wisconsin
Co-Chair: Costa, Eduardo F.		Inst. de Ciencias Matematicas e de Computacao
10:00-10:20		TuA20.1
<i>An Upper Riemann-Stieltjes Approach to Stochastic Design Problems</i> , pp. 2871-2876.		
Heemels, Maurice		Eindhoven Univ. of Tech.
Bemporad, Alberto		IMT Inst. for Advanced Studies Lucca
10:20-10:40		TuA20.2
<i>Equivalence between Mean Square, Stochastic and Exponential Stability for Singular Jump Linear Systems</i> , pp. 2877-2882.		
Chávez-Fuentes, Jorge R.		Pontificia Univ. Católica del Perú/ Sao Paulo Univ.
Costa, Eduardo F.		Inst. de Ciências Matemáticas e de Computação
Terra, Marco Henrique		Univ. of São Paulo at São Carlos
10:40-11:00		TuA20.3
<i>Tree-Structured Statistical Modeling Via Convex Optimization</i> , pp. 2883-2888.		
Saunderson, James		Massachusetts Inst. of Tech.
Chandrasekaran, Venkat		MIT
Parrilo, Pablo A.		Massachusetts Inst. of Tech.
Willsky, Alan S.		MIT
11:00-11:20		TuA20.4
<i>On Arbitrage Possibilities Via Linear Feedback in an Idealized Brownian Motion Stock Market</i> , pp. 2889-2894.		
Barmish, B. Ross		Univ. of Wisconsin
Primbs, James A.		Stanford Univ.
11:20-11:40		TuA20.5
<i>Stability and Performance Analysis of Dual-Random-Rate Systems Via Markov Jump Linear System Theory</i> , pp. 2895-2900.		
Tejada Ruiz, Arturo		Delft Univ. of Tech.
Chávez-Fuentes, Jorge R.		Pontificia Univ. Católica del Perú/ Sao Paulo Univ.
Vos, Pauline		Delft Center for Systems and Contro, Delft Univ. of Tech.
11:40-12:00		TuA20.6
<i>Systems Theory in an Analytic Setting</i> , pp. 2901-2906.		
Bujorianu, Luminita Manuela		Univ. of Manchester
Bujorianu, Marius Constantin		Univ. of Manchester
Barringer, Howard		Univ. of Manchester
TuA21		Brevard
Agents and Autonomous Systems IV (Regular Session)		
Chair: Cassandras, Christos G.		Boston Univ.
Co-Chair: Jovanovic, Mihailo		Univ. of Minnesota
10:00-10:20		TuA21.1

An Optimal Control Approach for the Persistent Monitoring Problem, pp. 2907-2912.

Cassandras, Christos G. Boston Univ.
Ding, Xu Chu Boston Univ.
Lin, Xuchao BOSTON Univ.

10:20-10:40 TuA21.2

Optimized Graph Topologies for Probabilistic Search, pp. 2913-2919.

Klaus, Christian Naval Postgraduate School
Chung, Timothy H. Naval Postgraduate School

10:40-11:00 TuA21.3

Link Resource Allocation for Maximizing the Rigidity of Multi-Agent Formations, pp. 2920-2925.

Zhu, Guangwei Purdue Univ.
Hu, Jianghai Purdue Univ.

11:00-11:20 TuA21.4

Distributed Convex Optimization with Identical Constraints, pp. 2926-2931.

Nikookhoy, Shahin Univ. of Oklahoma
Lu, Jie Univ. of Oklahoma
Tang, Choon Yik Univ. of Oklahoma

11:20-11:40 TuA21.5

Algorithms for Leader Selection in Large Dynamical Networks: Noise-Corrupted Leaders, pp. 2932-2937.

Lin, Fu Univ. of Minnesota
Fardad, Makan Syracuse Univ.
Jovanovic, Mihailo Univ. of Minnesota

11:40-12:00 TuA21.6

Distributed Mobility and Power Control for Noncooperative Robotic Ad Hoc and Sensor Networks, pp. 2938-2943.

Stankovic, Milos S. KTH Royal Inst. of Tech.
Johansson, Karl H. Royal Inst. of Tech.

TuA22 Bradford

System Identification IV (Regular Session)

Chair: Stankovic, Milos S. Royal Inst. of Tech.
Co-Chair: Sznaier, Mario Northeastern Univ.

10:00-10:20 TuA22.1

Blind Identification of Sparse Dynamic Networks and Applications, pp. 2944-2950.

Ayazoglu, Mustafa Northeastern Univ.
Sznaier, Mario Northeastern Univ.
Ozay, Necmiye California Inst. of Tech.

10:20-10:40 TuA22.2

Decentralized Identification for Errors-In-Variables Systems Based on a Consensus Algorithm, pp. 2951-2956.

Stankovic, Milos S. KTH Royal Inst. of Tech.
Stankovic, Srdjan S. Univ. of Belgrade
Stipanovic, Dusan M. Univ. of Illinois, Urbana-Champaign

10:40-11:00 TuA22.3

Chance Constrained Input Design, pp. 2957-2962.

Rojas, Cristian R. ACCESS Linnaeus Center, KTH
Katselis, Dimitrios ACCESS Linnaeus Center, KTH
Hjalmarsson, Håkan Royal Inst. of Tech.
Hildebrand, Roland Univ. Grenoble 1/CNRS
Bengtsson, Mats KTH

11:00-11:20 TuA22.4

An Efficient Algorithm for Dempster's Completion of Block-Circulant Covariance Matrices, pp. 2963-2968.

Carli, Francesca, P Univ. of Padova
Ferrante, Augusto Univ. di Padova
Pavon, Michele Univ. di Padova

Picci, Giorgio	Univ. di Padova
11:20-11:40	TuA22.5
<i>Closed-Loop Performance Diagnosis Using Prediction Error Identification</i> , pp. 2969-2974.	
Mesbah, Ali	Delft Univ. of Tech.
Bombois, Xavier	Delft Univ. of Tech.
Ludlage, Jobert	Delft Univ. of Tech.
Van den Hof, Paul M.J.	Delft Univ. of Tech.
TuSP1	Bonnet Creek Ballroom III & VI
The Smart Grid: Overview, Issues, and Challenges (Semiplenary Session)	
Chair: Camacho, Eduardo F.	Univ. of Sevilla
13:30-14:20	TuSP1.1
<i>The Smart Grid: Overview, Issues, and Challenges*</i> .	
Amin, Massoud	Univ. of Minnesota
TuSP2	Bonnet Creek Ballroom IX & XII
Approximate Bisimulation: A Bridge between Computer Science and Control Theory (Semiplenary Session)	
Chair: Farrell, Jay	Univ. of California Riverside
13:30-14:20	TuSP2.1
<i>Approximate Bisimulation: A Bridge between Computer Science and Control Theory*</i> .	
Pappas, George J.	Univ. of Pennsylvania
TuB01	Orange
Control of Energy Systems I (Invited Session)	
Chair: Schuster, Eugenio	Lehigh Univ.
Co-Chair: Lee, Kwang Y.	Baylor Univ.
Organizer: Schuster, Eugenio	Lehigh Univ.
Organizer: Lee, Kwang Y.	Baylor Univ.
14:30-14:50	TuB01.1
<i>Real-Time Sliding Mode Control for a Doubly Fed Induction Generator (I)</i> , pp. 2975-2980.	
Ruiz, Riemann	CINVESTAV Unidad Guadalajara
Sanchez, Edgar N.	CINVESTAV
Loukianov, Alexander G.	CINVESTAV IPN GDI
14:50-15:10	TuB01.2
<i>Stable Model Predictive Control Based on TS Fuzzy Model with Application to Boiler-Turbine Coordinated System (I)</i> , pp. 2981-2987.	
Wu, Xiao	Southeast Univ.
Shen, Jiong	Southeast Univ.
Li, Yiguo	Southeast Univ.
Lee, Kwang Y.	Baylor Univ.
15:10-15:30	TuB01.3
<i>An Integrated Multi-Task Control System for Fuel-Cell Power Plants (I)</i> , pp. 2988-2993.	
Yang, Wenli	Western Digital Corp.
Lee, Kwang Y.	Baylor Univ.
15:30-15:50	TuB01.4
<i>h_∞ Current Control Strategy for the Neutral Point of a Three-Phase Inverter (I)</i> , pp. 2994-2999.	
Hornik, Tomas	The Univ. of Liverpool
Zhong, Qing-Chang	Loughborough Univ.
15:50-16:10	TuB01.5
<i>Wind Energy Aggregation: A Coalitional Game Approach (I)</i> , pp. 3000-3007.	
Baeyens, Enrique	Univ. of Valladolid
Bitar, Eilyan	Univ. of California, Berkeley
Khargonekar, Pramod P.	Univ. of Florida

TuB02		Dixie
Biological Systems I (Regular Session)		
Chair: Scoglio, Caterina		Kansas State Univ.
Co-Chair: Ghosh, Bijoy		Texas Tech. Univ.
14:30-14:50		TuB02.1
<i>Epidemic Spread in Human Networks</i> , pp. 3008-3013.		
Darabi Sahneh, Faryad		Kansas State Univ.
Scoglio, Caterina		Kansas State Univ.
14:50-15:10		TuB02.2
<i>Feedback Control Architecture of the R. Sphaeroides Chemotaxis Network</i> , pp. 3014-3019.		
Hamadeh, Abdullah Omar		Univ. of Waterloo
August, Elias		ETH
Roberts, Mark Andrew James		Univ. of Oxford
Maini, Philip		Univ. of Oxford
Armitage, Judith		Univ. of Oxford
Ingalls, Brian P.		Univ. of Waterloo
Papachristodoulou, Antonis		Univ. of Oxford
15:10-15:30		TuB02.3
<i>Biological Circuit Models of Immune Regulatory Response: A Decentralized Control System</i> , pp. 3020-3025.		
Peet, Matthew M.		Illinois Inst. of Tech.
Kim, Peter		Univ. of Utah
Lee, Peter P.		Stanford Univ.
15:30-15:50		TuB02.4
<i>Predicting the Asymptotic Dynamics of Large Biological Networks by Interconnections of Boolean Modules</i> , pp. 3026-3031.		
Chaves, Madalena		INRIA
Tournier, Laurent		INRA
15:50-16:10		TuB02.5
<i>Estimating the Speed and Motion Direction of Targets Using a Model of the Turtle Retina</i> , pp. 3032-3037.		
Ghosh, Bijoy		Texas Tech. Univ.
Ekanayake, Mervyn Parakrama B.		Texas Tech. Univ.
TuB03		Columbia
Fault Detection IV (Regular Session)		
Chair: Yame, Joseph Julien		Univ. Henri Poincaré, Nancy 1
Co-Chair: Seiler, Peter		Univ. of Minnesota
14:30-14:50		TuB03.1
<i>Performance Analysis of LTV Fault Detection Schemes with Additive Faults</i> , pp. 3038-3043.		
Wheeler, Timothy J.		Univ. of California, Berkeley
Seiler, Peter		Univ. of Minnesota
Packard, Andrew K.		Univ. of California at Berkeley
Balas, Gary J.		Univ. of Minnesota
14:50-15:10		TuB03.2
<i>Monitoring and Fault Detection in a Reverse Osmosis Plant Using Principal Component Analysis</i> , pp. 3044-3049.		
Garcia-Alvarez, Diego		Univ. of Valladolid
De La Fuente, Maria Jesus		Univ. De Valladolid
Palacin, Luis G.		Univ. of Valladolid, Spain
15:10-15:30		TuB03.3
<i>Comparison of Various Linear Discriminant Analysis Techniques for Fault Diagnosis of Re-Usable Launch Vehicle</i> , pp. 3050-3055.		
Arthanari, Akilez Krishnamurthy		IIT Bombay
Belur, Madhu N.		Indian Inst. of Tech. Bombay

Chakraborty, Debraj	Indian Inst. of Tech. Bombay
15:30-15:50	TuB03.4
<i>Identification and Fault Diagnosis for LPV Uncertain Systems</i> , pp. 3056-3061.	
Blesa, Joaquim	Univ. Pol. de Catalunya (UPC)
Puig, Vicenc	Univ. Pol. de Catalunya
Saludes, Jordi	Tech. Univ. of Catalonia
15:50-16:10	TuB03.5
<i>Robust Adaptive Estimation of Arbitrary Time-Varying Actuator Faults</i> , pp. 3062-3067.	
Yame, Joseph Julien	Univ. Henri Poincaré, Nancy 1
Menighed, Kamel	Nancy Univ.
Aubrun, Christophe	UHP - Nancy
TuB04	Nassau
Power Electronics (Regular Session)	
Chair: Scruggs, Jeff	Duke Univ.
Co-Chair: Consolini, Luca	Univ. of Parma
14:30-14:50	TuB04.1
<i>Modeling and Stability Analysis of an Active Filter for DC Current Compensation</i> , pp. 3068-3073.	
Buticchi, Giampaolo	Univ. of Parma
Consolini, Luca	Univ. of Parma
Lorenzani, Emilio	Univ. of Modena and Reggio Emilia
14:50-15:10	TuB04.2
<i>Multisampled Hybrid Model Predictive Control Schemes for Pulse-Width Modulated Systems</i> , pp. 3074-3079.	
Fischer, Claudia	ETH Zurich
Mariethoz, Sebastien	ETH Zurich
Morari, Manfred	ETH Zurich
15:10-15:30	TuB04.3
<i>Optimal LQR-Based Multi-Loop Linear Control Strategy for UPS Inverter Applications Using Resonant Controller</i> , pp. 3080-3085.	
Hasanzadeh, Amin	Center for Advanced Power Systems (CAPS)
Edrington, Chris S.	Center for Advanced Power Systems (CAPS)
Maghsoudlou, Benyamin	Sharif Univ. of Tech.
Mokhtari, Hossein	Sharif Univ. of Tech.
15:30-15:50	TuB04.4
<i>Passive Network Design for Stochastic Vibratory Energy Harvesters</i> , pp. 3086-3091.	
Scruggs, Jeff	Univ. of Michigan
Li, Quan	Duke Univ.
15:50-16:10	TuB04.5
<i>Decentralized Loading Coordinations for Large-Population Plug-In Electric Vehicles and a Few Controllable Bulk Loads</i> , pp. 3092-3097.	
Yin, Xiaokun	Beijing Inst. of Tech.
Ma, Zhongjing	Beijing Inst. of Tech.
Dong, Lei	Beijing Inst. of Tech.
TuB05	Taylor
Communication Networks I (Regular Session)	
Chair: Yang, Bo	Shanghai Jiao Tong Univ.
Co-Chair: Paganini, Fernando	Univ. ORT Uruguay
14:30-14:50	TuB05.1
<i>Resource Allocation Game for Wireless Networks with Queue Stability Constraints</i> , pp. 3098-3103.	
Sarikaya, Yunus	Sabancı Univ.
Alpcan, Tansu	The Univ. of Melbourne
Ercetin, Ozgur	Sabancı Univ.

14:50-15:10	TuB05.2
<i>Energy-Aware Opportunistic Channel Access with Decentralized Channel State Information</i> , pp. 3104-3109.	
Yang, Bo	Shanghai Jiao Tong Univ.
Shen, Yanyan	City Univ. of Hong Kong
Guan, Xinping	Shanghai Jiao Tong Univ.
Wang, Wei	Dalian Univ. of Tech.
15:10-15:30	TuB05.3
<i>Secret Information in Communications Networks</i> , pp. 3110-3115.	
Phan, Tran Khoa	UCLA
van der Schaar, Mihaela	Univ. of California Los Angeles
Zame, William	UCLA
15:30-15:50	TuB05.4
<i>Dynamics of Content Propagation in BitTorrent-Like P2P File Exchange Systems</i> , pp. 3116-3121.	
Ferragut, Andres	Univ. ORT, Uruguay
Kozynski, Fabián	Univ. ORT Uruguay
Paganini, Fernando	Univ. ORT Uruguay
15:50-16:10	TuB05.5
<i>An Axiomatic Fluid-Flow Model for Congestion Control Analysis</i> , pp. 3122-3129.	
Briat, Corentin	KTH
Hjalmarsson, Håkan	Royal Inst. of Tech.
Johansson, Karl H.	Royal Inst. of Tech.
Jonsson, Ulf T.	Royal Inst. of Tech. (KTH)
Karlsson, Gunnar	KTH - Royal Inst. of Tech.
Sandberg, Henrik	KTH Royal Inst. of Tech.
Yavuz, Emre A.	Royal Inst. of Tech. (KTH)
TuB06	Jackson
Networked Control Systems V (Regular Session)	
Chair: Gupta, Vijay	Univ. of Notre Dame
Co-Chair: Johansson, Karl H.	Royal Inst. of Tech.
14:30-14:50	TuB06.1
<i>Reducing Packet Loss Bursts in a Wireless Mesh Network for Stochastic Bounds on Estimation Error</i> , pp. 3130-3135.	
Chen, Phoebus	KTH Royal Inst. of Tech.
Ramesh, Chithrupa	Royal Inst. of Tech.
Johansson, Karl H.	Royal Inst. of Tech.
14:50-15:10	TuB06.2
<i>Model-Based Compensation for Multi-Packet Transmission in Networked Control Systems</i> , pp. 3136-3141.	
Zhao, Yun-Bo	Univ. of Glasgow
Kim, Jongrae	Univ. of Glasgow
Yang, Guang-hong	Northeastern Univ.
Liu, Guoping	Univ. of Glamorgan
15:10-15:30	TuB06.3
<i>On Stability across a Gaussian Product Channel</i> , pp. 3142-3147.	
Kumar, Utsav	Univ. of Notre Dame
Gupta, Vijay	Univ. of Notre Dame
Laneman, Nicholas	Univ. of Notre Dame
15:30-15:50	TuB06.4
<i>On LQR Control with Asynchronous Clocks</i> , pp. 3148-3153.	
Singh, Rahul	Univ. of Notre Dame
Gupta, Vijay	Univ. of Notre Dame
15:50-16:10	TuB06.5
<i>Robust Control and Scheduling Codesign for Networked Embedded Control Systems</i> , pp. 3154-3159.	
Al-Areqi, Sanad	Univ. of Kaiserslautern

Görges, Daniel
Liu, Steven

Univ. of Kaiserslautern
Univ. of Kaiserslautern

TuB07		Escambia
Kalman Filtering II (Regular Session)		
Chair: Medvedev, Alexander V.		Uppsala Univ.
Co-Chair: Germani, Alfredo		Univ. dell'Aquila
14:30-14:50		TuB07.1
<i>A New Approach for Planar Tracking in a Nongaussian Setting</i> , pp. 3160-3165.		
Conte, Francesco		Univ. of L'Aquila
Cusimano, Valerio		Univ. Campus Bio-Medico di Roma
Germani, Alfredo		Univ. dell'Aquila
14:50-15:10		TuB07.2
<i>Mixture Random Hypersurface Models for Tracking Multiple Extended Objects</i> , pp. 3166-3171.		
Baum, Marcus		Karlsruhe Inst. of Tech. (KIT)
Noack, Benjamin		Karlsruhe Inst. of Tech.
Hanebeck, Uwe D.		Karlsruhe Inst. of Tech. (KIT)
15:10-15:30		TuB07.3
<i>A New Smallest Sigma Set for the Unscented Transform and Its Applications on SLAM</i> , pp. 3172-3177.		
Menegaz, Henrique Marra		Univ. of Brasília
Ishihara, Joao Yoshiyuki		Univ. of Brasília
Borges, Geovany A.		Univ. de Brasilia
15:30-15:50		TuB07.4
<i>Efficient Parallel Implementation of a Kalman Filter for Single Output Systems on Multicore Computational Platforms</i> , pp. 3178-3183.		
Rosén, Olov		Uppsala Univ.
Medvedev, Alexander V.		Uppsala Univ.
15:50-16:10		TuB07.5
<i>A Near-Real Time Nonlinear State Estimation Approach with Application to Initialization of Navigation Systems</i> , pp. 3184-3191.		
Ramanandan, Arvind		Univ. of California, Riverside
Chen, Anning		Univ. of California, Riverside
Farrell, Jay		Univ. of California Riverside
TuB08		Flagler
Machine Learning I (Regular Session)		
Chair: Wang, Hong		The Univ. of Manchester
Co-Chair: Zheng, Wei Xing		Univ. of Western Sydney
14:30-14:50		TuB08.1
<i>Model Structure Learning: A Support Vector Machine Approach for LPV Linear-Regression Models</i> , pp. 3192-3197.		
Tóth, Roland		Delft Univ. of Tech.
Laurain, Vincent		Univ. of Western Sydney
Zheng, Wei Xing		Univ. of Western Sydney
Poolla, Kameshwar		Univ. of California at Berkeley
14:50-15:10		TuB08.2
<i>Introducing Instrumental Variables in the LS-SVM Based Identification Framework</i> , pp. 3198-3203.		
Laurain, Vincent		Univ. of Western Sydney
Zheng, Wei Xing		Univ. of Western Sydney
Tóth, Roland		Delft Univ. of Tech.
15:10-15:30		TuB08.3
<i>Discrimination of Waist Motions Based on Surface EMG Signals Using Support Vector Machine for Waist Power Assist Suit</i> , pp. 3204-3209.		
Kashiwagi, Kouta		Kogakuin Univ.

Nakakuki, Takashi Ishii, Chiharu	Kogakuin Univ. Hosei Univ.
15:30-15:50	TuB08.4
<i>On the Discardability of Data in Support Vector Classification Problems</i> , pp. 3210-3215.	
Del Favero, Simone	Univ. of Padova
Varagnolo, Damiano	Univ. of Padova
Dinuzzo, Francesco	Max Planck Inst. for Intelligent Systems
Schenato, Luca	Univ. of Padova
Pillonetto, Gianluigi	Univ. of Padova
15:50-16:10	TuB08.5
<i>Gabor Filter and Eigen-Flame Image-Based Burning State Recognition for Sintering Process of Rotary Kiln</i> , pp. 3216-3221.	
Li, Weitao	Northeastern Univ.
Mao, Kezhi	Nanyang Tech. Univ.
Chai, Tianyou	Northeastern Univ.
Zhang, Hong	Univ. of Alberta
Wang, Hong	The Univ. of Manchester
TuB09	Gilchrist
Nonlinear Systems IV (Regular Session)	
Chair: Jayawardhana, Bayu	Univ. of Groningen
Co-Chair: Shi, Yang	Univ. of Victoria
14:30-14:50	TuB09.1
<i>Robust Integral Control of Port-hamiltonian Systems: The Case of Non-passive Outputs with Unmatched Disturbances</i> , pp. 3222-3227.	
Ortega, Romeo	LSS-SUPELEC
Romero Velazquez, Jose Guadalupe	Lab. des Signaux et Systèmes, CNRS-SUPELEC
14:50-15:10	TuB09.2
<i>Nonlinear Control Design Via Relaxed Input</i> , pp. 3228-3233.	
Jayawardhana, Bayu	Univ. of Groningen
15:10-15:30	TuB09.3
<i>Dissipativity of General Duhem Hysteresis Models</i> , pp. 3234-3239.	
Jayawardhana, Bayu	Univ. of Groningen
Ouyang, Ruiyue	Univ. of groningen
Andrieu, Vincent	Univ. de Lyon
15:30-15:50	TuB09.4
<i>Dissipativity Based H_∞ Control for Nonlinear Stochastic Systems with Time-Varying Delays</i> , pp. 3240-3245.	
Li, Huiping	Univ. of Victoria
Shi, Yang	Univ. of Victoria
15:50-16:10	TuB09.5
<i>Asymptotic Tracking Control of Piezoelectric Actuators with Hysteresis</i> , pp. 3246-3251.	
Chen, Zhiyong	The Univ. of Newcastle
Zhang, Haitao	Huazhong (Central China) Univ. of ScienceandTechnology
Ding, Han	Huazhong Univ. of Science and Tech. of China
TuB10	Hamilton
Integrated Vehicle Dynamics and Control II (Invited Session)	
Chair: Lu, Jianbo	Ford Motor Company
Co-Chair: Tsiotras, Panagiotis	Georgia Inst. of Tech.
Organizer: Lu, Jianbo	Ford Motor Company
Organizer: Tsiotras, Panagiotis	Georgia Inst. of Tech.
14:30-14:50	TuB10.1
<i>Robust Vehicle Lateral Stabilization Via Set-Based Methods for Uncertain Piecewise Affine Systems: Experimental Results (I)</i> , pp. 3252-3257.	

Palmieri, Giovanni	Univ. degli Studi del Sannio
Baric, Miroslav	United Tech. Res. Center
Glielmo, Luigi	Univ. of Sannio
Tseng, Eric	Ford Motor Company
Borrelli, Francesco	University of California at Berkeley
14:50-15:10	TuB10.2
<i>FWD Vehicle Drifting Control: The Handbrake-Cornering Technique (I)</i> , pp. 3258-3263.	
Velenis, Efstathios	Brunel Univ.
15:10-15:30	TuB10.3
<i>Vehicle Posture Control through Aggressive Maneuvering for Mitigation of T-Bone Collisions (I)</i> , pp. 3264-3269.	
Chakraborty, Imon	Georgia Inst. of Tech.
Tsiotras, Panagiotis	Georgia Inst. of Tech.
Lu, Jianbo	Ford Motor Company
15:30-15:50	TuB10.4
<i>A Simple Nonlinear Filter for Low-Cost Ground Vehicle Localization System (I)</i> , pp. 3270-3275.	
Bonnabel, Silvere	Mines ParisTech
Deschaud, Jean-Emmanuel	Carnegie Mellon Univ.
Salaün, Erwan	Georgia Inst. of Tech.
15:50-16:10	TuB10.5
<i>Anytime Computation of Time-Optimal Off-Road Vehicle Maneuvers Using the RRT* (I)</i> , pp. 3276-3282.	
Jeon, Jeong hwan	Massachusetts Inst. of Tech.
Karaman, Sertac	Massachusetts Inst. of Tech.
Frazzoli, Emilio	Massachusetts Inst. of Tech.
TuB11	Indian River
Hybrid Systems I (Regular Session)	
Chair: Bujorianu, Luminita Manuela	Univ. of Manchester
Co-Chair: Forni, Fulvio	Univ. di Roma Tor Vergata
14:30-14:50	TuB11.1
<i>Tracking Control in Billiards Using Mirrors without Smoke, Part I: Lyapunov-Based Local Tracking in Polyhedral Regions</i> , pp. 3283-3288.	
Forni, Fulvio	Univ. di Roma Tor Vergata
Teel, Andrew R.	Univ. of California at Santa Barbara
Zaccarian, Luca	Univ. di Roma, Tor Vergata
14:50-15:10	TuB11.2
<i>Tracking Control in Billiards Using Mirrors without Smoke, Part II: Additional Lyapunov-Based Local and Global Results</i> , pp. 3289-3294.	
Forni, Fulvio	Univ. di Roma Tor Vergata
Teel, Andrew R.	Univ. of California at Santa Barbara
Zaccarian, Luca	Univ. di Roma, Tor Vergata
15:10-15:30	TuB11.3
<i>How Good Are the Stochastic Analysis Methods for Stochastic Reachability</i> , pp. 3295-3300.	
Bujorianu, Luminita Manuela	Univ. of Manchester
15:30-15:50	TuB11.4
<i>On the Extension of the Hybrid Minimum Principle to Riemannian Manifolds</i> , pp. 3301-3306.	
Taringoo, Farzin	McGill Univ.
Caines, Peter E.	McGill Univ.
15:50-16:10	TuB11.5
<i>Optimal Control of a Class of Stochastic Hybrid Systems with Probabilistic Constraints</i> , pp. 3307-3312.	
Kobayashi, Koichi	Japan Adv Inst. of Sci & Tech.
Matou, Koichiro	Japan Advanced Inst. of Science and Tech.
Hiraishi, Kunihiro	JAIST

TuB12		Lake
Nonlinear Systems Estimation (Regular Session)		
Chair: Grip, Håvard Fjær		Washington State Univ.
Co-Chair: Alamir, Mazen		CNRS
14:30-14:50		TuB12.1
<i>Improvement of Moving Horizon Estimators Via Direct Virtual Sensor Techniques</i> , pp. 3313-3318.		
Fagiano, Lorenzo		Pol. di Torino/Univ. California at Santa Barbara
Novara, Carlo		Pol. di Torino
14:50-15:10		TuB12.2
<i>A New Observer for Nonlinear Fractional Order Systems</i> , pp. 3319-3324.		
Martinez Martinez, Rafael		CINVESTAV-IPN
Mata, Juan Luis		CINVESTAV-IPN
Martinez-Guerra, Rafael		CINVESTAV-IPN
Leon Vazquez, Jorge A.		CINVESTAV-IPN
Fernandez Anaya, Guillermo		Univ. Iberoamericana
15:10-15:30		TuB12.3
<i>Reducing Computational Load in Moving-Horizon Observers Using Partial Explicit Map Inversion</i> , pp. 3325-3330.		
Omar, Oumayma		Univ. de Grenoble (INPG), Gipsa Lab.
Alamir, Mazen		CNRS
15:30-15:50		TuB12.4
<i>Observers for Cascaded Nonlinear and Linear Systems</i> , pp. 3331-3337.		
Grip, Håvard Fjær		Washington State Univ.
Saberi, Ali		Washington State Univ.
Johansen, Tor Arne		Norwegian Univ. of Science & Tech.
15:50-16:10		TuB12.5
<i>A Novel Online Adaptive Time Delay Identification Technique</i> , pp. 3338-3343.		
Bayrak, Alper		Izmir Inst. of Tech.
Tatlicioglu, Enver		Izmir Inst. of Tech.
TuB13		Manatee
Linear Systems IV (Regular Session)		
Chair: Galeani, Sergio		Univ. Di Roma Tor Vergata
Co-Chair: Silvestre, Carlos		Inst. Superior Tecnico
14:30-14:50		TuB13.1
<i>Signal Invariance and Trajectory Steering Problem for an Autonomous Wheeled Robot</i> , pp. 3344-3349.		
Yakubovich, Vladimir A.		St. Petersburg Univ.
Melnikov, Alexander		Saint Petersburg State Univ. Russia
Proskurnikov, Anton		St.-Petersburg State Univ.
Luchin, Roman		Saint-Petersburg State Univ.
14:50-15:10		TuB13.2
<i>A Robust Regulator Based on a Hybrid Adaptive Observer for Multiple Frequency Estimation</i> , pp. 3350-3355.		
Carnevale, Daniele		Univ. di Roma
Galeani, Sergio		Univ. Di Roma Tor Vergata
Astolfi, Alessandro		Imperial Coll. & Univ. of Rome
15:10-15:30		TuB13.3
<i>On the Distinguishability of Discrete Linear Time-Invariant Dynamic Systems</i> , pp. 3356-3361.		
Rosa, Paulo Andre Nobre		Inst. Superior Tecnico, Lisbon
Silvestre, Carlos		Inst. Superior Tecnico
15:30-15:50		TuB13.4
<i>Automatic Initialization of the Caputo Fractional Derivative</i> , pp. 3362-3368.		
Trigeassou, Jean-claude		Univ. of Bordeaux France
Maamri, Nezha		Ec. supérieure d'ingénieurs de Poitiers
Oustaloup, Alain		Bordeaux I Univ. ENSEIRB

15:50-16:10	TuB13.5
<i>The Roots of Unity and a Direct Method for the Computation of Stable Internal Positive Representations of Linear Systems</i> , pp. 3369-3374.	
Cacace, Filippo	Univ. Campus Biomedico di Roma
Germani, Alfredo	Univ. dell'Aquila
Manes, Costanzo	Univ. dell'Aquila
TuB14	Sarasota
Nonlinear Predictive Control II (Regular Session)	
Chair: Pannocchia, Gabriele	Univ. of Pisa
Co-Chair: Dimarogonas, Dimos V.	Royal Inst. of Tech.
14:30-14:50	TuB14.1
<i>Fast Implementation of Model Predictive Control with Guaranteed Performance</i> , pp. 3375-3380.	
Canale, Massimo	Pol. di Torino
Cerone, Vito	Pol. di Torino
Piga, Dario	Pol. di Torino
Regruto, Diego	Pol. di Torino
14:50-15:10	TuB14.2
<i>A Predictive Control Approach to Trajectory Tracking Problems Via Time-Varying Level Sets of Lyapunov Functions</i> , pp. 3381-3386.	
Faulwasser, Timm	OVG Univ. Magdeburg
Findeisen, Rolf	OVG Univ. Magdeburg
15:10-15:30	TuB14.3
<i>Enforcing Convergence in Nonlinear Economic MPC</i> , pp. 3387-3391.	
Angeli, David	Imperial Coll.
Amrit, Rishi	Univ. of Wisconsin - Madison
Rawlings, James B.	Univ. of Wisconsin-Madison
15:30-15:50	TuB14.4
<i>Novel Event-Triggered Strategies for Model Predictive Controllers</i> , pp. 3392-3397.	
Eqtami, Alina	National Tech. Univ. of Athens
Dimarogonas, Dimos V.	Royal Inst. of Tech.
Kyriakopoulos, Kostas J.	National Tech. Univ. of Athens
15:50-16:10	TuB14.5
<i>Inherently Robust Suboptimal Nonlinear MPC: Theory and Application</i> , pp. 3398-3403.	
Pannocchia, Gabriele	Univ. of Pisa
Rawlings, James B.	Univ. of Wisconsin-Madison
Wright, Stephen Joseph	Univ. of Wisconsin-Madison
TuB15	Union
Linear Parameter-Varying Systems (Regular Session)	
Chair: Fromion, Vincent	INRA
Co-Chair: Do, Anh Lam	Grenoble INP
14:30-14:50	TuB15.1
<i>Reduced-Complexity Controllers for LPV Systems: Towards Incremental Synthesis</i> , pp. 3404-3409.	
de Hillerin, Safta	SUPELEC
Scorletti, Gerard	Ec. Centrale de Lyon
Fromion, Vincent	INRA
14:50-15:10	TuB15.2
<i>Convex Conditions for Model Reduction of Linear Parameter Varying Systems</i> , pp. 3410-3415.	
de Hillerin, Safta	SUPELEC
Scorletti, Gerard	Ec. Centrale de Lyon
Fromion, Vincent	INRA
15:10-15:30	TuB15.3

Control Design for LPV Systems with Input Saturation and State Constraints: An Application to a Semi-Active Suspension, pp. 3416-3421.

Do, Anh Lam	Grenoble INP
Gomes da Silva Jr, Joao Manoel	Univ. Federal do Rio Grande do Sul (UFRGS)
Sename, Olivier	Grenoble Inst. of Tech.
Dugard, Luc	CNRS-Grenoble INP

15:30-15:50 TuB15.4

Output-Feedback Controlled-Invariant Sets for Systems with Linear Parameter-Varying State Transition Matrix, pp. 3422-3427.

Hempel, Andreas Berndt	Swiss Federal Inst. of Tech. Zurich
Kominek, Andreas Bernd	Germanischer Lloyd Industrial Services GmbH
Werner, Herbert	Hamburg Univ. of Tech.

15:50-16:10 TuB15.5

Safe LPV Controller Switching, pp. 3428-3433.

Trangbaek, Klaus	Aalborg Univ.
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TuB16 Palm Beach

Cooperative Control II (Regular Session)

Chair: Ren, Wei	Utah State Univ.
Co-Chair: Angeli, David	Imperial Coll.

14:30-14:50 TuB16.1

Cooperative Distributed Model Predictive Control for Linear Plants Subject to Convex Economic Objectives, pp. 3434-3439.

Lee, Jaehwa	Imperial Coll.
Angeli, David	Imperial Coll.

14:50-15:10 TuB16.2

Partial-State Synchronization of Linear Heterogeneous Multi-Agent Systems, pp. 3440-3445.

Listmann, Kim Daniel	Tech. Univ. Darmstadt
Wahrburg, Arne	Tech. Univ. Darmstadt
Strubel, Jan	Tech. Univ. Darmstadt
Adamy, Jürgen	Tech. Univ. Darmstadt
Konigorski, Ulrich	Tech. Univ. Darmstadt

15:10-15:30 TuB16.3

Formation Control of Multi-Agent Systems with Double Integrator Dynamics Using Delayed Static Output Feedback, pp. 3446-3451.

Deshpande, Paresh Ravindra	Univ. of Leicester
Menon, Prathyush P	Univ. of Exeter
Edwards, Christopher	Univ. of Leicester
Postlethwaite, Ian	Northumbria Univ.

15:30-15:50 TuB16.4

Finite-Time Consensus for Second-Order Multi-Agent Networks with Inherent Nonlinear Dynamics under an Undirected Fixed Graph, pp. 3452-3457.

Cao, Yongcan	Utah State Univ.
Ren, Wei	Univ. of California, Riverside

15:50-16:10 TuB16.5

Asymmetric Control Achieves Size-Independent Stability Margin in 1-D Flocks, pp. 3458-3463.

Hao, He	Univ. of Florida
Barooah, Prabir	Univ. of Florida

TuB17 Alachua

Delay Systems I (Regular Session)

Chair: Michiels, Wim	K.U. Leuven
Co-Chair: Olgac, Nejat	Univ. of Connecticut

14:30-14:50 TuB17.1

Decentralized Feedforward Control of Wind Farms: Prospects and Open Problems, pp. 3464-3469.

Kristalny, Maxim	Lund Univ.
Madjidian, Daria	Lund Univ.
14:50-15:10	TuB17.2
<i>Optimal Second Order Consensus Protocol with Time Delay</i> , pp. 3470-3475.	
Yang, Wen	East China Univ. of Science and Tech.
Wang, Xiaofan	Shanghai JiaoTong Univ.
Shi, Hongbo	East China Univ. of Science and Tech.
15:10-15:30	TuB17.3
<i>Second Order Linear Consensus Protocols with Irregular Topologies and Time Delay</i> , pp. 3476-3481.	
Cepeda-Gomez, Rudy	The Univ. of Connecticut
Olgac, Nejat	Univ. of Connecticut
15:30-15:50	TuB17.4
<i>A Projection Approach for Model Reduction of Large-Scale Time-Delay Systems</i> , pp. 3482-3489.	
Michiels, Wim	K.U. Leuven
Jarlebring, Elias	K.U. Leuven
Meerbergen, Karl	K.U. Leuven
15:50-16:10	TuB17.5
<i>Constrained Control of Positive Discrete-Time Periodic Systems with Delays</i> , pp. 3490-3495.	
Bougatef, Naima	Univ. of Poitiers
Mehdi, Driss	ESIP-LAII
Bachelier, Olivier	Univ. of Poitiers
Chaabane, Mohamed	Univ. of Sfax
Mercère, Guillaume	Univ. of Poitiers
TuB18	Baker
Robust Control IV (Regular Session)	
Chair: Yaz, Edwin	Marquette Univ.
Co-Chair: Shim, Hyungbo	Seoul National Univ.
14:30-14:50	TuB18.1
<i>A Disturbance Rejection-Flatness Based Linear Output Feedback Control Approach for Tracking Tasks on a Chua's Circuit</i> , pp. 3496-3501.	
Sira-Ramirez, Hebertt	CINVESTAV
Luviano-Juárez, Alberto	CINVESTAV - IPN México
Cortés-Romero, John	Univ. Nacional de Colombia
14:50-15:10	TuB18.2
<i>Nonlinear Robust H_∞ Static Output Feedback Controller Design for Parameter Dependent Polynomial Systems: An Iterative Sum of Squares Approach</i> , pp. 3502-3507.	
Krug, Matthias	The Univ. of Auckland
Saat, Shakir	The Univ. of Auckland
Nguang, Sing Kiong	The Univ. of Auckland
15:10-15:30	TuB18.3
<i>Robustness in the Face of Polytopic Initial Conditions Uncertainty and Polytopic System Matrices Uncertainty in Finite-Horizon Linear H_∞-Analysis</i> , pp. 3508-3513.	
Boyarski, Shmuel	IMI
15:30-15:50	TuB18.4
<i>Robust Tracking by Reduced-Order Disturbance Observer: Linear Case</i> , pp. 3514-3519.	
Back, Juhoon	Kwangwoon Univ.
Shim, Hyungbo	Seoul National Univ.
Jo, Nam H.	Soongsil Univ.
Kim, Jung-Su	Seoul National Univ. of Science and Tech.
15:50-16:10	TuB18.5
<i>Mixed Criteria Control Design with Finite-Time Boundedness and H-Infinity Property for a Class of Discrete-Time Nonlinear Systems</i> , pp. 3520-3525.	
EIBsat, Mohammad	Marquette Univ.

TuB19		Bay
Robotics IV (Regular Session)		
Chair: Ghaffarkhah, Alireza		Univ. of New Mexico
Co-Chair: Trumpf, Jochen		The Australian National Univ.
14:30-14:50		TuB19.1
<i>Vision Based Control of Aerial Robotic Vehicles Using the Port Hamiltonian Framework (I)</i> , pp. 3526-3532.		
Mahony, Robert		Australian National Univ.
Stramigioli, Stefano		Univ. of Twente
Trumpf, Jochen		The Australian National Univ.
14:50-15:10		TuB19.2
<i>An Initialization Method for Monocular Visual Localization of Miniature Aerial Robots</i> , pp. 3533-3538.		
Lau, Tak Kit		The Chinese Univ. of Hong Kong
15:10-15:30		TuB19.3
<i>Analysis of a Tunable Impedance Method for Practical Control of Insect-Inspired Flapping-Wing MAVs</i> , pp. 3539-3546.		
Mahjoubi, Hosein		Univ. of California at Santa Barbara
Byl, Katie		Univ. of California at Santa Barbara
15:30-15:50		TuB19.4
<i>A Model Predictive Control Approach to Attitude Stabilization and Trajectory Tracking Control of a 3D Universal Joint Space Robot with an Initial Angular Momentum</i> , pp. 3547-3552.		
Kai, Tatsuya		Kyushu Univ.
15:50-16:10		TuB19.5
<i>A Communication-Aware Framework for Robotic Field Estimation</i> , pp. 3553-3558.		
Ghaffarkhah, Alireza		Univ. of New Mexico
Mostofi, Yasamin		Univ. of New Mexico
TuB20		Broward
Unmanned Aerial Vehicles: Navigation and Human Interaction (Invited Session)		
Chair: Marconi, Lorenzo		Univ. di Bologna
Co-Chair: Naldi, Roberto		Univ. di Bologna
Organizer: Marconi, Lorenzo		Univ. di Bologna
Organizer: Naldi, Roberto		Univ. di Bologna
14:30-14:50		TuB20.1
<i>Distributed Online Leader Selection in the Bilateral Teleoperation of Multiple UAVs (I)</i> , pp. 3559-3565.		
Franchi, Antonio		Max Planck Inst. for Biological Cybernetics
Buelthoff, Heinrich H.		Max Planck Inst. for Biological Cybernetics
Robuffo Giordano, Paolo		Max Planck Inst. for Biological Cybernetics
14:50-15:10		TuB20.2
<i>MAV Indoor Navigation Based on a Closed-Form Solution for Absolute Scale Velocity Estimation Using Optical Flow and Inertial Data (I)</i> , pp. 3566-3571.		
Lippiello, Vincenzo		Univ. di Napoli Federico II
Loianno, Giuseppe		Univ. degli Studi di Napoli Federico II
Siciliano, Bruno		Univ. degli Studi di Napoli Federico II
15:10-15:30		TuB20.3
<i>A Compact Exploration Strategy for Indoor Flight Vehicles (I)</i> , pp. 3572-3577.		
Pravitra, Chintasad		Georgia Inst. of Tech.
Chowdhary, Girish		Georgia Inst. of Tech.
Johnson, Eric N.		Georgia Inst. of Tech.
15:30-15:50		TuB20.4
<i>On 3D Path Following of a Ducted Fan UAV in SO(3) (I)</i> , pp. 3578-3583.		
Cichella, Venanzio		Univ. of Bologna
Naldi, Roberto		Univ. di Bologna

Dobrokhodov, Vladimir	Naval Postgraduate School
Kaminer, Isaac	Naval Postgraduate School
Marconi, Lorenzo	Univ. di Bologna
15:50-16:10	TuB20.5
<i>A Class of Modular Aerial Robots (I)</i> , pp. 3584-3589.	
Naldi, Roberto	Univ. di Bologna
Forte, Francesco	Univ. of Bologna
Marconi, Lorenzo	Univ. di Bologna
TuB21	Brevard
Agents and Autonomous Systems V (Regular Session)	
Chair: Sugie, Toshiharu	Kyoto Univ.
Co-Chair: Mesbahi, Mehran	Univ. of Washington
14:30-14:50	TuB21.1
<i>Broadcast Control of Multi-Agent Systems</i> , pp. 3590-3595.	
Azuma, Shun-ichi	Kyoto Univ.
Yoshimura, Ryota	Kyoto Univ.
Sugie, Toshiharu	Kyoto Univ.
14:50-15:10	TuB21.2
<i>Local Requirements for Optimal Distribution of Heterogeneous Agents</i> , pp. 3596-3601.	
Nogales, Juan M.	Pontificia Univ. Javeriana
Finke, Jorge	Pontificia Univ. Javeriana
15:10-15:30	TuB21.3
<i>Multi-Agent Rigid Formations: A Study of Robustness to the Loss of Multiple Agents</i> , pp. 3602-3607.	
Motevallian, S. Alireza	The Australian National Univ.
Yu, CHANGBIN (Brad)	The Australian National Univ.
Anderson, Brian D.O.	Australian National Univ.
15:30-15:50	TuB21.4
<i>Constrained Consensus Via Logarithmic Barrier Functions</i> , pp. 3608-3613.	
Lee, Unsik	Univ. of Washington
Mesbahi, Mehran	Univ. of Washington
15:50-16:10	TuB21.5
<i>A Submodular Optimization Framework for Leader Selection in Linear Multi-Agent Systems</i> , pp. 3614-3621.	
Clark, Andrew	Univ. of Washington
Poovendran, Radha	Univ. of Washington, Seattle
TuB22	Bradford
Identification and Estimation (Regular Session)	
Chair: Weyer, Erik	Univ. of Melbourne
Co-Chair: Fagiano, Lorenzo	Pol. di Torino/Univ. California at Santa Barbara
14:30-14:50	TuB22.1
<i>A Simple Recursive Algorithm for Learning a Monotone Wiener System</i> , pp. 3622-3627.	
Pelckmans, Kristiaan	Uppsala Univ.
Dai, Liang	Uppsala Univ. Information Tech. SysCon
14:50-15:10	TuB22.2
<i>Adaptive Parameter Identification and State Estimation with Partial State Information and Bounded Disturbances</i> , pp. 3628-3633.	
Mallikarjunan, Srinath	Unmanned Dynamics
Madyastha, Venkatesh	National Aerospace Lab.
15:10-15:30	TuB22.3
<i>System Identification with Binary Observations by Stochastic Approximation and Active Learning</i> , pp. 3634-3639.	
Csáji, Balázs Csanád	The Univ. of Melbourne
Weyer, Erik	Univ. of Melbourne

15:30-15:50 TuB22.4
Sparse Set Membership Identification of Nonlinear Functions and Application to Control of Power Kites for Wind Energy Conversion, pp. 3640-3645.

Novara, Carlo Pol. di Torino
Fagiano, Lorenzo Pol. di Torino/Univ. California at Santa Barbara
Milanese, Mario Pol. di Torino

15:50-16:10 TuB22.5
Frequency Estimation for Periodical Signal with Noise in Finite Time, pp. 3646-3651.

Pyrkin, Anton Saint-Petersburg State Univ. of ITMO
Bobtsov, Alexey Saint-Petersburg State Univ. of ITMO
Efimov, Denis Inst. for Problems of Mechanical Eng.
Zolghadri, Ali Univ. Bordeaux I

TuC01 Orange
Control of Energy Systems II (Invited Session)

Chair: Schuster, Eugenio Lehigh Univ.
Co-Chair: Wang, Jihong Univ. of Warwick
Organizer: Schuster, Eugenio Lehigh Univ.
Organizer: Wang, Jihong Univ. of Warwick

16:30-16:50 TuC01.1
Control-Oriented Modeling of the Electron Cyclotron Current Drive Actuated Hybrid Mode in ITER (I), pp. 3652-3657.

Djordjevic, Snezana Eindhoven Univ. of Tech.
Steinbuch, Maarten Eindhoven Univ. of Tech.
De Baar, Marco FOM
Hogeweij, Gerrit Maarten Dirk FOM Inst. for Plasma Physics Rijnhuizen
Citrin, Jonathan FOM Inst. for Plasma Physics Rijnhuizen

16:50-17:10 TuC01.2
Modeling and Simulation of a Power Conditioning System for the Hybrid Fuel-Cell/Turbine Power Plant (I), pp. 3658-3663.

Guo, Zhitong Baylor Univ.
Lee, Kwang Y. Baylor Univ.

17:10-17:30 TuC01.3
Repetitive Model Predictive Approach to Individual Pitch Control of Wind Turbines (I), pp. 3664-3670.

Friis, Johannes Aalborg Univ.
Nielsen, Ebbe Aalborg Univ.
Bønding, Jesper Aalborg Univ.
Adegas, Fabiano Daher Aalborg Univ.
Stoustrup, Jakob Aalborg Univ.
Odgaard, Peter Fogh KK electronic a/s

17:30-17:50 TuC01.4
Management and Control Strategy Study for a New Hybrid Wind Turbine System (I), pp. 3671-3676.

Sun, Hao Univ. of Birmingham
Luo, Xing Univ. of Warwick
Wang, Jihong Univ. of Warwick

17:50-18:10 TuC01.5
Contribution of Domestic Heating Systems to Smart Grid Control (I), pp. 3677-3681.

Tahersima, Fatemeh Aalborg Univ.
Stoustrup, Jakob Aalborg Univ.
Afkhani Meybodi, Soroush Aalborg Univ.
Rasmussen, Henrik Aalborg Univ.

TuC02 Dixie
Biological Systems II (Regular Session)

Chair: Li, Jr-Shin Washington Univ. in St. Louis

Co-Chair: Jiang, Zhong-Ping	Pol. Inst. NYU
16:30-16:50	TuC02.1
<i>A Mathematical Study on Immune Activation and Related Dynamics in HIV Infection</i> , pp. 3682-3687.	
Shu, Zhan	National Univ. of Ireland, Maynooth
Hernandez-Vargas, Esteban A.	National Univ. of Ireland
Middleton, Richard H.	National Univ. of Ireland Maynooth
16:50-17:10	TuC02.2
<i>Optimal Control Mechanism Involving the Human Kidney</i> , pp. 3688-3693.	
Jiang, Yu	Pol. Inst. of New York Univ.
Jiang, Zhong-Ping	Pol. Inst. NYU
Chemudupati, Srinivasa	Pol. Inst. of New York Univ.
Morup Jorgensen, Jan	New York Univ.
Peskin, Charles	New York Univ.
17:10-17:30	TuC02.3
<i>Constrained Minimum-Power Control of Spiking Neuron Oscillators</i> , pp. 3694-3699.	
Dasanayake, Isuru Sammana	Washington Univ. in St. Louis
Li, Jr-Shin	Washington Univ. in St. Louis
17:30-17:50	TuC02.4
<i>On Stability and Stabilization for Chemostats with Many Limiting Nutrients</i> , pp. 3700-3705.	
Mazenc, Frederic	Team INRIA DISCO
Malisoff, Michael	Louisiana State Univ.
17:50-18:10	TuC02.5
<i>Inference of Temporally Evolving Network Dynamics with Applications in Biological Systems</i> , pp. 3706-3711.	
Chang, Young Hwan	Univ. of California, Berkeley
Tomlin, Claire J.	UC Berkeley
TuC03	Columbia
Fault Detection V (Regular Session)	
Chair: El-Farra, Nael H.	Univ. of California, Davis
Co-Chair: Hsiao, Tesheng	National Chiao Tung Univ.
16:30-16:50	TuC03.1
<i>An Optimization Approach to Resolve the Competing Aims of Active Fault Detection and Control</i> , pp. 3712-3717.	
Siroky, Jan	Univ. of West Bohemia in Pilsen, Czech Republic
Simandl, Miroslav	Univ. of West Bohemia in Pilsen
Axehill, Daniel	ETH Zürich
Puncochar, Ivo	Univ. of West Bohemia
16:50-17:10	TuC03.2
<i>A Dual-Model Fault Detection Approach with Application to Actuators of Robot Manipulators</i> , pp. 3718-3723.	
Hsiao, Tesheng	National Chiao Tung Univ.
Weng, Mao-Chiao	National Chiao Tung Univ.
17:10-17:30	TuC03.3
<i>Input Design for Subspace-Based Fault Detection</i> , pp. 3724-3729.	
Esna Ashari, Alireza	INRIA, France
Mevel, Laurent	INRIA
17:30-17:50	TuC03.4
<i>A Lyapunov-Based Diagnosis Signal for Fault Detection Robust Tracking Problem of a Class of Sampled-Data Systems</i> , pp. 3730-3735.	
Corradini, Maria Letizia	Univ. di Camerino
Cristofaro, Andrea	Univ. of Camerino
Giambo, Roberto	Univ. di Camerino
Pettinari, Silvia	Univ. di Camerino
17:50-18:10	TuC03.5
<i>Control, Monitoring and Reconfiguration of Sampled-Data Hybrid Process Systems with Actuator Faults</i> , pp. 3736-3741.	

Hu, Ye
El-Farra, Nael H.

Univ. of California, Davis
Univ. of California, Davis

TuC04		Nassau
Flexible Structures (Regular Session)		
Chair: Ge, Shuzhi Sam		National Univ. of Singapore
Co-Chair: Scherpen, Jacquélien M.A.		Univ. of Groningen
16:30-16:50		TuC04.1
<i>Vibration Control of a Coupled Nonlinear String System in Transverse and Longitudinal Directions</i> , pp. 3742-3747.		
Ge, Shuzhi Sam		National Univ. of Singapore
Zhang, Shuang		National Univ. of Singapore
He, Wei		National Univ. of Singapore
16:50-17:10		TuC04.2
<i>Enforcing a System Model to Be Negative Imaginary Via Perturbation of Hamiltonian Matrices</i> , pp. 3748-3752.		
Mabrok, Mohamed	Univ. of New South Wales at Australian Defence Force Academy	
Petersen, Ian	Univ. of New South Wales at the Australian Defence Force Academy	
Kallapur, Abhijit	Univ. of New South Wales at the Australian Defence Force Academy	
Lanzon, Alexander		Univ. of Manchester
17:10-17:30		TuC04.3
<i>A New Stability Result for the Feedback Interconnection of Negative Imaginary Systems with a Pole at the Origin</i> , pp. 3753-3757.		
Mabrok, Mohamed	Univ. of New South Wales at Australian Defence Force Academy	
Kallapur, Abhijit	Univ. of New South Wales at the Australian Defence Force Academy	
Petersen, Ian	Univ. of New South Wales at the Australian Defence Force Academy	
Lanzon, Alexander		Univ. of Manchester
17:30-17:50		TuC04.4
<i>Stability Analysis of Piezoelectric Beams</i> , pp. 3758-3763.		
Voss, Thomas		Eindhoven Univ. of Tech.
Scherpen, Jacquélien M.A.		Univ. of Groningen
17:50-18:10		TuC04.5
<i>A Polynomial LPV Approach for Flexible Robot End-Effector Position Controller Analysis</i> , pp. 3764-3769.		
Halalchi, Housseem		Univ. of Strasbourg, France
Laroche, Edouard		Strasbourg Univ.
Bara, G. Iuliana		Univ. of Strasbourg
TuC05		Taylor
Communication Networks II (Regular Session)		
Chair: Srikant, R		Univ. of Illinois, Urbana-Champaign
Co-Chair: Kulkarni, Vishwesh V.		Indian Inst. of Tech. Bombay
16:30-16:50		TuC05.1
<i>The Stability of Longest-Queue-First Scheduling with Variable Packet Sizes</i> , pp. 3770-3775.		
Maguluri, Siva Theja		Univ. of Illinois Urbana Champaign
Hajek, Bruce		UIUC
Srikant, R		Univ. of Illinois, Urbana-Champaign
16:50-17:10		TuC05.2
<i>Stabilization Over Markov Feedback Channels</i> , pp. 3776-3782.		
Coviello, Lorenzo		Univ. of California San Diego
Minero, Paolo		Univ. of Notre Dame
Franceschetti, Massimo		UCSD
17:10-17:30		TuC05.3
<i>Feasibility of SINR Guarantees for Downlink Transmissions in Relay-Enabled OFDMA Networks</i> , pp. 3783-3788.		
Kulkarni, Vishwesh V.		Univ. of Minnesota
Lim, Joo Ghee		Singapore Pol.

Jha, Sanjay	Univ. of New South Wales
17:30-17:50	TuC05.4
<i>Extended Gossip Protocol for Diffusion of Multiple Messages and Its Percolation Probability</i> , pp. 3789-3793.	
Ishikawa, Tetsuya	Tokyo Inst. of Tech.
Hayakawa, Tomohisa	Tokyo Inst. of Tech.
17:50-18:10	TuC05.5
<i>First-Principles Modeling of Wireless Networks for Rate Control</i> , pp. 3794-3799.	
Ripplinger, David	Brigham Young Univ.
Warnick, Sean	Brigham Young Univ.
Zappala, Daniel	Brigham Young Univ.
TuC06	Jackson
Networked Control Systems VI (Regular Session)	
Chair: Nedich, Angelia	Univ. of Illinois, Urbana-Champaign
Co-Chair: Kim, Jong-Han	Stanford Univ.
16:30-16:50	TuC06.1
<i>A Control Perspective for Centralized and Distributed Convex Optimization</i> , pp. 3800-3805.	
Wang, Jing	iowa state Univ.
Elia, Nicola	Iowa State Univ.
16:50-17:10	TuC06.2
<i>On Existence of a Quadratic Comparison Function for Random Weighted Averaging Dynamics and Its Implications</i> , pp. 3806-3811.	
Touri, Behrouz	Univ. of Illinois, Urbana-Champaign
Nedich, Angelia	Univ. of Illinois, Urbana-Champaign
17:10-17:30	TuC06.3
<i>Synchronization of Networked Piecewise Smooth Systems</i> , pp. 3812-3817.	
De Lellis, Pietro	Univ. of Naples Federico II
di Bernardo, Mario	Univ. of Naples Federico II
Liuzza, Davide	Univ. of Naples Federico II
17:30-17:50	TuC06.4
<i>A Unifying Condition for Separable Two Player Optimal Control Problems</i> , pp. 3818-3823.	
Kim, Jong-Han	Stanford Univ.
Lall, Sanjay	Stanford Univ.
17:50-18:10	TuC06.5
<i>Synthesis for Optimal Two-Player Decentralized Control Over TCP Erasure Channels with State Feedback</i> , pp. 3824-3829.	
Chang, Chung-Ching	Stanford Univ.
Lall, Sanjay	Stanford Univ.
TuC07	Escambia
Noncommutative Formal Power Series in Control Theory (Invited Session)	
Chair: Petreczky, Mihaly	Maastricht Univ.
Co-Chair: Gray, W. Steven	Old Dominion Univ.
Organizer: Petreczky, Mihaly	Maastricht Univ.
Organizer: Gray, W. Steven	Old Dominion Univ.
16:30-16:50	TuC07.1
<i>On the Radius of Convergence of Cascaded Analytic Nonlinear Systems (I)</i> , pp. 3830-3835.	
Thitsa, Makhin	Old Dominion Univ.
Gray, W. Steven	Old Dominion Univ.
16:50-17:10	TuC07.2
<i>Series Method in Nonlinear Time Optimality (I)</i> , pp. 3836-3841.	
Sklyar, Grigory	Szczecin Univ.
Ignatovich, Svetlana	Kharkov National Univ.

17:10-17:30		TuC07.3
<i>Noncommutative Formal Power Series and Noncommutative Functions (I)</i> , pp. 3842-3847.		
Kaliuzhnyi-Verbovetskyi, Dmitry		Drexel Univ.
17:30-17:50		TuC07.4
<i>A Faa Di Bruno Hopf Algebra for a Group of Fliess Operators with Applications to Feedback (I)</i> , pp. 3848-3854.		
Gray, W. Steven		Old Dominion Univ.
Duffaut Espinosa, Luis Augusto		no affiliation
17:50-18:10		TuC07.5
<i>Residuation of Tropical Series: Rationality Issues (I)</i> , pp. 3855-3861.		
Badouel, Eric		INRIA / IRISA
Bouillard, Anne		ENS
Darondeau, Philippe		INRIA
Komenda, Jan		Czech Acad. of Sciences
TuC08		Flagler
Machine Learning II (Regular Session)		
Chair: Jagannathan, Sarangapani		Missouri Univ. of Science & Tech.
Co-Chair: Fujimoto, Kenji		Nagoya Univ.
16:30-16:50		TuC08.1
<i>Stochastic Bandits with Pathwise Constraints</i> , pp. 3862-3869.		
Avner, Orly		Tech.
Mannor, Shie		Tech.
16:50-17:10		TuC08.2
<i>Intelligent Flight for UAV Via Integration of Dynamic MOEA, Bayesian Network and Fuzzy Logic</i> , pp. 3870-3875.		
Peng, Xingguang		Northwestern Pol. Univ.
Xu, Demin		Northwestern Pol. Univ.
Yan, Wei-Sheng		Northwestern Pol. Univ.
17:10-17:30		TuC08.3
<i>Neural Network-Based Optimal Control for Trajectory Tracking of a Helicopter UAV</i> , pp. 3876-3881.		
Nodland, David		Missouri Univ. of Science & Tech.
Zargarzadeh, Hassan		Missouri Univ. of Science and Tech. (MST)
Jagannathan, Sarangapani		Missouri Univ. of Science & Tech.
17:30-17:50		TuC08.4
<i>System Identification Based on Variational Bayes Method and the Invariance under Coordinate Transformations</i> , pp. 3882-3888.		
Fujimoto, Kenji		Nagoya Univ.
Satoh, Akinori		Nagoya Univ.
Fukunaga, Shuichi		Tokyo Metropolitan Coll. of Industrial Tech.
17:50-18:10		TuC08.5
<i>Convergence Analysis for an Online Recommendation System</i> , pp. 3889-3894.		
Truong, Anh		Univ. of Illinois at Urbana-Champaign
Kiyavash, Negar		Univ. of Illinois, Urbana-Champaign
Borkar, Vivek S.		Tata Inst. of Fundamental Res.
TuC09		Gilchrist
Nonlinear Systems V (Regular Session)		
Chair: Sepulchre, Rodolphe J.		Univ. de Liege
Co-Chair: Mehta, Prashant G.		Univ. of Illinois, Urbana-Champaign
16:30-16:50		TuC09.1
<i>Bifurcation Analysis of a Heterogeneous Mean-Field Oscillator Game</i> , pp. 3895-3900.		
Yin, Huibing		Univ. of Illinois, Urbana-Champaign
Mehta, Prashant G.		Univ. of Illinois, Urbana-Champaign
Meyn, Sean		Univ. of Illinois

Shanbhag, Uday V.	Univ. of Illinois, Urbana-Champaign
16:50-17:10	TuC09.2
<i>Multistability, Bifurcations, and Biological Neural Networks: A Synaptic Drive Firing Model for Cerebral Cortex Transition in the Induction of General Anesthesia</i> , pp. 3901-3908.	
Haddad, Wassim M.	Georgia Inst. of Tech.
Hui, Qing	Texas Tech. Univ.
Bailey, James M.	Northeast Georgia Medical Center
17:10-17:30	TuC09.3
<i>Matching an Oscillator Model to a Phase Response Curve</i> , pp. 3909-3914.	
Sacré, Pierre	Univ. of Liège
Sepulchre, Rodolphe J.	Univ. de Liege
17:30-17:50	TuC09.4
<i>Stable Manifolds of Saddle Equilibria for Pendulum Dynamics on S^2 and $SO(3)$</i> , pp. 3915-3921.	
Lee, Taeyoung	George Washington Univ.
Leok, Melvin	Univ. of California, San Diego
McClamroch, N. Harris	Univ. of Michigan
17:50-18:10	TuC09.5
<i>Limit Cycles in Replicator-Mutator Network Dynamics</i> , pp. 3922-3927.	
Pais, Darren	Princeton Univ.
Leonard, Naomi Ehrich	Princeton Univ.
TuC10	Hamilton
Maritime Control (Regular Session)	
Chair: Corradini, Maria Letizia	Univ. di Camerino
Co-Chair: Katayama, Hitoshi	Shizuoka Univ.
16:30-16:50	TuC10.1
<i>Seabed Tracking of an Autonomous Underwater Vehicle with Nonlinear Output Regulation</i> , pp. 3928-3933.	
Adhami-Mirhosseini, Aras	Univ. of Tehran
Aguiar, A. Pedro	Inst. Superior Tecnico, Tech. Univ. of Lisbon
Yazdanpanah, Mohammad Javad	Univ. of Tehran
16:50-17:10	TuC10.2
<i>An Actuator Failure Tolerant Robust Control Approach for an Underwater Remotely Operated Vehicle</i> , pp. 3934-3939.	
Corradini, Maria Letizia	Univ. di Camerino
Monteriù, Andrea	Univ. Pol. delle Marche
Orlando, Giuseppe	Univ. Pol. delle Marche
Pettinari, Silvia	Univ. di Camerino
17:10-17:30	TuC10.3
<i>A Lagrangian Framework to Incorporate Positional and Velocity Constraints to Achieve Path-Following Control</i> , pp. 3940-3945.	
Peymani Foroushani, Ehsan	Norwegian Univ. of Science and Tech.
Fossen, Thor I.	Norwegian Univ. of Science and Tech.
17:30-17:50	TuC10.4
<i>Sampled-Data Straight-Line Path Following Control for Underactuated Ships</i> , pp. 3946-3951.	
Katayama, Hitoshi	Shizuoka Univ.
Aoki, Hirotaka	Yamaha Motor Co.,Ltd.
17:50-18:10	TuC10.5
<i>Time Delayed Non-Minimum Phase Slave Tele-Robotics</i> , pp. 3952-3957.	
Atashzar, Seyed Farokh	Amirkabir Univ. of Tech.
Talebi, H.A.	Amirkabir Univ.
Shahbazi, Mahya	Amirkabir Univ. of Tech.
Towhidkhah, Farzaad	Amirkabir Univ.
Patel, Rajni	Univ. of Western Ontario

TuC11	Indian River
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Hybrid Systems II (Regular Session)

Chair: Silvestre, Carlos	Inst. Superior Tecnico
Co-Chair: Olaru, Sorin	Supelec
16:30-16:50	TuC11.1
<i>Numerical Integration of Hybrid Dynamical Systems Via Domain Relaxation</i> , pp. 3958-3965.	
Burden, Samuel	Univ. of California at Berkeley
Gonzalez, Humberto	Univ. of California, Berkeley
Vasudevan, Ramanarayan	Univ. of California Berkeley
Bajcsy, Ruzena	Univ. of Pennsylvania
Sastry, Shankar	Univ. of California at Berkeley
16:50-17:10	TuC11.2
<i>On Finite Memory Approximations Constructed from Input/Output Snapshots</i> , pp. 3966-3973.	
Tarraf, Danielle C.	The Johns Hopkins Univ.
Duffaut Espinosa, Luis Augusto	Univ. of New South Wales
17:10-17:30	TuC11.3
<i>Autonomous Transition Flight for a Vertical Take-Off and Landing Aircraft (I)</i> , pp. 3974-3979.	
Casau, Pedro	Inst. Superior Tecnico
Cabecinhas, David	Inst. Superior Tecnico
Silvestre, Carlos	Inst. Superior Tecnico
17:30-17:50	TuC11.4
<i>Adaptive Control Design for Piecewise-Linear Differential Inclusion with Parameter Uncertainty</i> , pp. 3980-3985.	
Liu, Kai	Harbin Institute of Tech.
Yao, Yu	Harbin Inst. of Tech.
Sun, Dengfeng	Purdue Univ.
Balakrishnan, Venkataramanan	Purdue Univ.
Wei, Peng	Purdue Univ.
17:50-18:10	TuC11.5
<i>Enhancements on the Hyperplane Arrangements in Mixed Integer Techniques</i> , pp. 3986-3991.	
Stoican, Florin	SUPELEC
Prodan, Ionela	SUPELEC Systems Sciences (E3S)
Olaru, Sorin	Supelec

TuC12

Lake

Linear System Observers (Regular Session)

Chair: Willems, Jan C.	K.U. Leuven
Co-Chair: Campbell, Stephen L	North Carolina State Univ.
16:30-16:50	TuC12.1
<i>An Internal Model Principle for Observers</i> , pp. 3992-3999.	
Trumpf, Jochen	The Australian National Univ.
Trentelman, Harry L.	Univ. of Groningen
Willems, Jan C.	K.U. Leuven
16:50-17:10	TuC12.2
<i>Generality of Functional Observer Structures</i> , pp. 4000-4004.	
Fernando, Tyrone Lucius	Univ. of Western Australia
Jennings, Les	Univ. of Western Australia
Trinh, Hieu Minh	Deakin Univ.
17:10-17:30	TuC12.3
<i>Observability and Detectability Analysis of Singular Linear Systems with Unknown Inputs</i> , pp. 4005-4010.	
Bejarano, Francisco Javier	INRIA Lille-Nord Europe
Floquet, Thierry	CNRS
Perruquetti, Wilfrid	Ec. Centrale de Lille
Zheng, Gang	INRIA
17:30-17:50	TuC12.4

Full Order Observers for Linear DAEs, pp. 4011-4016.

Bobinyec, Karen
Campbell, Stephen L
Kunkel, Peter

North Carolina State Univ.
North Carolina State Univ.
Leipzig Univ.

17:50-18:10

TuC12.5

Observers Design for Singular Fractional-Order Systems, pp. 4017-4022.

N'Doye, Ibrahima
Darouach, Mohamed
Zasadzinski, Michel
Radhy, Nour-Eddine

CRAN
Univ. Henri Poincare-Nancy
CRAN
Lab. Physique et Matériaux Microélectronique, Automatique e

TuC13

Manatee

Linear Systems V (Regular Session)

Chair: Ebihara, Yoshio
Co-Chair: Paszke, Wojciech

Kyoto Univ.
Univ. of Zielona Gora

16:30-16:50

TuC13.1

Control of Discrete Linear Repetitive Processes Using Non-Local Previous Pass Information, pp. 4023-4028.

Cichy, Blazej
Galkowski, Krzysztof
Rogers, Eric
Kummert, Anton

Univ. of Zielona Gora
Univ. of Zielona Gora
Univ. of Southampton
Univ. of Wuppertal

16:50-17:10

TuC13.2

L1 Gain Analysis of Linear Positive Systems and Its Application, pp. 4029-4034.

Ebihara, Yoshio
Peaucelle, Dimitri
Arzelier, Denis

Kyoto Univ.
LAAS-CNRS, Univ. de Toulouse
LAAS-CNRS

17:10-17:30

TuC13.3

Two Alternative Approaches to Stochastic Discrete-Time Iterative Learning Control Systems, pp. 4035-4040.

Meng, Deyuan
Jia, Yingmin
Du, Junping
Yu, Fashan

Beihang Univ. (BUAA)
Beihang Univ.
Beijing Univ. of Posts and Telecommunications
Henan Pol. Univ.

17:30-17:50

TuC13.4

Stability of Distributed 3-D Systems Implemented on Grid Sensor Networks Using Floating Point Arithmetic, pp. 4041-4047.

Sumanasena, Buddika
Bauer, Peter H.

Univ. of Notre Dame
Notre Dame Univ.

17:50-18:10

TuC13.5

A Delay-Fractioning Approach to Stability Analysis of Networked Control Systems with Time-Varying Delay, pp. 4048-4053.

Figueredo, Luis Felipe da Cruz
Ishihara, João Yoshiyuki
Borges, Geovany A.
Bauchspiess, Adolfo

Univ. of Brasília
Univ. of Brasília
Univ. de Brasilia
Univ. of Brasília

TuC14

Sarasota

Cyber Security of Control Systems (Invited Session)

Chair: Langbort, Cedric
Co-Chair: Sandberg, Henrik
Organizer: Langbort, Cedric
Organizer: Sandberg, Henrik

Univ. of Illinois, Urbana-Champaign
KTH Royal Inst. of Tech.
Univ. of Illinois, Urbana-Champaign
KTH Royal Inst. of Tech.

16:30-16:50

TuC14.1

Electric Power Network Security Analysis Via Minimum Cut Relaxation (I), pp. 4054-4059.

Sou, Kin Cheong
Sandberg, Henrik

Royal Inst. of Tech.
KTH Royal Inst. of Tech.

Johansson, Karl H.	Royal Inst. of Tech.
16:50-17:10	TuC14.2
<i>Multi-Scale Analysis of Long Range Dependent Traffic for Anomaly Detection in Wireless Sensor Networks (I)</i> , pp. 4060-4065.	
Zheng, Shanshan	Univ. of Maryland Coll. Park
Baras, John S.	Univ. of Maryland
17:10-17:30	TuC14.3
<i>Robust and Resilient Control Design for Cyber-Physical Systems with an Application to Power Systems (I)</i> , pp. 4066-4071.	
Zhu, Quanyan	Univ. of Illinois, Urbana-Champaign
Basar, Tamer	Univ. of Illinois, Urbana-Champaign
17:30-17:50	TuC14.4
<i>One-Stage Control Over an Adversarial Channel with Finite Codewords (I)</i> , pp. 4072-4077.	
Gupta, Abhishek	Univ. of Illinois at Urbana Champaign
Langbort, Cedric	Univ. of Illinois, Urbana-Champaign
Basar, Tamer	Univ. of Illinois, Urbana-Champaign
17:50-18:10	TuC14.5
<i>On the Interdependence of Reliability and Security in Networked Control Systems (I)</i> , pp. 4078-4083.	
Amin, Saurabh	Univ. of California, Berkeley
Schwartz, Galina	UC Berkeley
Sastry, Shankar	Univ. of California at Berkeley
TuC15	Union
Stability of Linear Systems (Regular Session)	
Chair: Zanasi, Roberto	Univ. of Modena and Reggio Emilia
Co-Chair: Hencsey, Brandon	Cornell Univ.
16:30-16:50	TuC15.1
<i>A Scaling and Squaring Method for the Discretisation of Positive Switched Systems</i> , pp. 4084-4089.	
Zappavigna, Annalisa	Pol. di Milano
Colaneri, Patrizio	Pol. di Milano
Kirkland, Stephen	National Univ. of Ireland, Maynooth
Shorten, Robert	Nat. Univ. of Ireland
16:50-17:10	TuC15.2
<i>Non-Exponential Stabilization of Linear Time-Invariant Systems by Linear Time-Varying Controllers</i> , pp. 4090-4095.	
Inoue, Masaki	Osaka Univ.
Wada, Teruyo	Osaka Univ.
Asai, Toru	Osaka Univ.
Ikeda, Masao	Osaka Univ.
17:10-17:30	TuC15.3
<i>Lead-Lag Compensators: Analytical and Graphical Design on the Nyquist Plane</i> , pp. 4096-4101.	
Zanasi, Roberto	Univ. of Modena and Reggio Emilia
Cuoghi, Stefania	Univ. of Modena and Reggio Emilia
Ntogramatzidis, Lorenzo	Curtin Univ.
17:30-17:50	TuC15.4
<i>A State Space Approach to the Parameterization of Output Regulating Controllers</i> , pp. 4102-4107.	
Wong, Daniel	Cornell Univ.
Hencsey, Brandon	Cornell Univ.
17:50-18:10	TuC15.5
<i>Preservation of Piecewise-Linear Lyapunov Function under Padé Discretization</i> , pp. 4108-4113.	
Rossi, Francesco	Univ. Paul Cézanne
Colaneri, Patrizio	Pol. di Milano
Shorten, Robert	Nat. Univ. of Ireland

TuC16	Palm Beach
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Cooperative Control III (Regular Session)

Chair: Edwards, Christopher	Univ. of Leicester
Co-Chair: Skjetne, Roger	Norwegian Univ. of Science and Tech.
16:30-16:50	TuC16.1
<i>Cooperative Tracking for a Swarm of Unmanned Aerial Vehicles: A Distributed Takagi-Sugeno Fuzzy Framework Design</i> , pp. 4114-4119.	
Kladis, Georgios P.	Univ. of Leicester
Menon, Prathyush P	Univ. of Exeter
Edwards, Christopher	Univ. of Leicester
16:50-17:10	TuC16.2
<i>Simultaneous Stabilization and Synchronization for Multi-Agent Systems Via a Low Gain Method</i> , pp. 4120-4125.	
Hu, Guoqiang	Kansas State Univ.
Darabi Sahneh, Faryad	Kansas State Univ.
17:10-17:30	TuC16.3
<i>Finite Time Estimation and Containment Control of Second Order Perturbed Directed Networks</i> , pp. 4126-4131.	
Yu, Di	Beijing Inst. of Tech.
Wu, Qinghe	Beijing Inst. of Tech.
Song, Li	Beijing Inst. of Tech.
17:30-17:50	TuC16.4
<i>Formation Control of Fully-Actuated Marine Vessels Using Group Agreement Protocols</i> , pp. 4132-4139.	
L. Thorvaldsen, Christoffer F.	Norwegian Univ. of Science and Tech. (NTNU)
Skjetne, Roger	Norwegian Univ. of Science and Tech.
17:50-18:10	TuC16.5
<i>Cooperative Multi-Vehicle Search and Coverage Problem in Uncertain Environments</i> , pp. 4140-4145.	
Mirzaei, Mostafa	Concordia Univ.
Sharifi, Farid	Concordia Univ.
Gordon, Brandon W.	Concordia Univ.
Rabbath, Camille Alain	Defence R&D Canada
Zhang, Youmin	Concordia Univ.

TuC17

Alachua

Delay Systems II (Regular Session)

Chair: Califano, Claudia	Univ. di Roma
Co-Chair: Mondie, Sabine	CINVESTAV-IPN
16:30-16:50	TuC17.1
<i>A Truncated Prediction Approach to Stabilization of Linear Systems with Long Time-Varying Input Delay</i> , pp. 4146-4151.	
Zhou, Bin	Harbin Inst. of Tech.
Lin, Zongli	Univ. of Virginia
Duan, Guang-Ren	Harbin Inst. of Tech.
16:50-17:10	TuC17.2
<i>Reset Observers for Linear Time-Delay Systems. a Delay-Independent Approach</i> , pp. 4152-4157.	
Paesa, David	Zaragoza Univ.
Baños, Alfonso	Univ. OF MURCIA
Sagues, Carlos	Univ. de Zaragoza
17:10-17:30	TuC17.3
<i>Feedback Linear Equivalence for Nonlinear Time-Delay Systems</i> , pp. 4158-4163.	
Califano, Claudia	Univ. di Roma
Moog, Claude	CNRS
17:30-17:50	TuC17.4
<i>Exponential Stability Analysis of the Drilling System Described by a Switched Neutral Type Delay Equation with Nonlinear Perturbations</i> , pp. 4164-4169.	
Saldivar, Martha Belem	CINVESTAV
Mondie, Sabine	CINVESTAV-IPN

Loiseau, Jean Jacques Rasvan, Vladimir	CNRS Univ. of Craiova
17:50-18:10	TuC17.5
<i>Matrix Norm Approach for Control of Linear Time-Delay Systems</i> , pp. 4170-4175.	
Fioravanti, Andre R. Bonnet, Catherine Niculescu, Silviu-Iulian Geromel, Jose C.	UNICAMP INRIA Saclay-Ile-de-France CNRS-Supelec UNICAMP
TuC18	Baker
Robust Control V (Regular Session)	
Chair: Karimi, Alireza Co-Chair: Van De Wouw, Nathan	EPFL Eindhoven Univ. of Tech.
16:30-16:50	TuC18.1
<i>Impulsive Control of Mechanical Motion Systems with Uncertain Friction</i> , pp. 4176-4182.	
Van De Wouw, Nathan Leine, Remco. I.	Eindhoven Univ. of Tech. ETH Zentrum
16:50-17:10	TuC18.2
<i>Drop-On-Demand Inkjet Printhead Performance Improvement Using Robust Feedforward Control</i> , pp. 4183-4188.	
Khalate, Amol Ashok Bayon, Benoit Bombois, Xavier Scorletti, Gerard Babuska, R.	Delft Univ. of Tech. Ec. Centrale de Lyon Delft Univ. of Tech. Ec. Centrale de Lyon Delft Univ. of Tech.
17:10-17:30	TuC18.3
<i>Robust Gain-Scheduled Blending Control of Raw-Mix Quality in Cement Industries</i> , pp. 4189-4194.	
de Oliveira, Vinicius Amrhein, Michael Karimi, Alireza	Ec. Pol. Federale de Lausanne (EPFL) Online Control Ltd. EPFL
17:30-17:50	TuC18.4
<i>Flutter Control of Long-Span Suspension Bridges</i> , pp. 4195-4200.	
Zhao, Xiaowei Limebeer, David J.N. Graham, J Michael R	Univ. of Oxford Imperial Coll. Imperial Coll. London
17:50-18:10	TuC18.5
<i>Robustness Analysis and Controller Synthesis with Non-Normalized Coprime Factor Uncertainty Characterisation</i> , pp. 4201-4206.	
Engelken, Sönke Lanzon, Alexander Patra, Sourav	Univ. of Manchester Univ. of Manchester Univ. of Manchester
TuC19	Bay
Autonomous Robots I (Regular Session)	
Chair: Spong, Mark W. Co-Chair: Keviczky, Tamas	Univ. of Texas at Dallas Delft Univ. of Tech.
16:30-16:50	TuC19.1
<i>Lyapunov-Based Cooperative Avoidance Control for Multiple Lagrangian Systems with Bounded Sensing Uncertainties</i> , pp. 4207-4213.	
Rodríguez-Seda, Erick J. Stipanovic, Dusan M. Spong, Mark W.	Univ. of Texas at Dallas Univ. of Illinois, Urbana-Champaign Univ. of Texas at Dallas
16:50-17:10	TuC19.2
<i>A Strategy for Multi-Robot Navigation</i> , pp. 4214-4219.	

Beji, Lotfi	Univ. of Evry
Mohamed Anouar, El Kamel	Univ. of Evry
Abichou, Azgal	Ec. Pol. De Tunis
17:10-17:30	TuC19.3
<i>Formation Control of Weak Robots</i> , pp. 4220-4225.	
Zhang, Huan	The Univ. of Melbourne
Pathirana, Pubudu N.	Deakin Univ.
17:30-17:50	TuC19.4
<i>Distributed Multi-Target Tracking Via Mobile Robotic Networks: A Localized Non-Iterative SDP Approach</i> , pp. 4226-4231.	
Simonetto, Andrea	Delft Univ. of Tech.
Keviczky, Tamas	Delft Univ. of Tech.
17:50-18:10	TuC19.5
<i>Robot Deployment with End-To-End Communication Constraints</i> , pp. 4232-4238.	
Le Ny, Jerome	Univ. of Pennsylvania
Ribeiro, Alejandro	Univ. of Pennsylvania
Pappas, George J.	Univ. of Pennsylvania
TuC20	Broward
Large-Scale Systems (Regular Session)	
Chair: Ugrinovskii, Valery	Univ. of New South Wales
Co-Chair: Lestas, Ioannis	Univ. of Cambridge,
16:30-16:50	TuC20.1
<i>Small-Gain Results for Discrete-Time Networks of Systems with Delay</i> , pp. 4239-4244.	
Gielen, Rob	Eindhoven Univ. of Tech.
Lazar, Mircea	Eindhoven Univ. of Tech.
Teel, Andrew R.	Univ. of California at Santa Barbara
16:50-17:10	TuC20.2
<i>Stabilization of Large-Scale Distributed Control Systems Using I/O Event-Driven Control and Passivity</i> , pp. 4245-4250.	
Yu, Han	Univ. of Notre Dame
Zhu, Feng	Univ. of Notre Dame
Antsaklis, Panos J.	Univ. of Notre Dame
17:10-17:30	TuC20.3
<i>Gain-Scheduled Synchronization of Uncertain Parameter Varying Systems Via Relative H-Infinity Consensus</i> , pp. 4251-4256.	
Ugrinovskii, Valery	Univ. of New South Wales
17:30-17:50	TuC20.4
<i>On Network Stability, Graph Separation, Interconnection Structure and Convex Shells</i> , pp. 4257-4263.	
Lestas, Ioannis	Univ. of Cambridge,
17:50-18:10	TuC20.5
<i>Risk-Sensitive Mean Field Stochastic Games</i> , pp. 4264-4269.	
Tembine, Hamidou	SUPELEC
TuC21	Brevard
Agents and Autonomous Systems VII (Regular Session)	
Chair: Kyriakopoulos, Kostas J.	National Tech. Univ. of Athens
Co-Chair: Tang, Choon Yik	Univ. of Oklahoma
16:30-16:50	TuC21.1
<i>Relay Pursuit of a Maneuvering Target by a Group of Pursuers</i> , pp. 4270-4275.	
Bakolas, Efstathios	Georgia Inst. of Tech.
Tsiotras, Panagiotis	Georgia Inst. of Tech.
16:50-17:10	TuC21.2
<i>Adjustable Navigation Functions for Unknown Sphere Worlds</i> , pp. 4276-4281.	
Filippidis, Ioannis	National Tech. Univ. of Athens

Kyriakopoulos, Kostas J.	National Tech. Univ. of Athens
17:10-17:30	TuC21.3
<i>Decentralised Minimal-Time Consensus: Formulation, Characterisation, Design, Algorithm and Application</i> , pp. 4282-4289.	
Yuan, Ye	Univ. of Cambridge
Stan, Guy-Bart Vincent	Imperial Coll. London
Barahona, Mauricio	Imperial Coll. London
Shi, Ling	Hong Kong Univ. of Science and Tech.
Goncalves, Jorge M.	Univ. of Cambridge
17:30-17:50	TuC21.4
<i>Convergence Rate of Controlled Hopwise Averaging on Various Graphs</i> , pp. 4290-4295.	
Lu, Jie	Univ. of Oklahoma
Tang, Choon Yik	Univ. of Oklahoma
17:50-18:10	TuC21.5
<i>Adaptive Consensus and Algebraic Connectivity Estimation in Sensor Networks with Chebyshev Polynomials</i> , pp. 4296-4301.	
Montijano, Eduardo	Univ. of Zaragoza
Montijano, Juan Ignacio	Univ. of Zaragoza
Sagues, Carlos	Univ. de Zaragoza
TuC22	Bradford
New Developments in System Identification and Estimation (Invited Session)	
Chair: Pasik-Duncan, Bozenna	Univ. of Kansas
Co-Chair: Ljung, Lennart	Linköping Univ.
Organizer: Pasik-Duncan, Bozenna	Univ. of Kansas
Organizer: Ljung, Lennart	Linköping Univ.
16:30-16:50	TuC22.1
<i>The Local Polynomial Method for Nonparametric System Identification: Improvements and Experimentation (I)</i> , pp. 4302-4307.	
Gevers, Michel	Univ. Catholique de Louvain, and Vrije Univ. Brussel
Pintelon, Rik M.	Vrije Univ. Brussels
Schoukens, Johan	Vrije Univ. Brussels
16:50-17:10	TuC22.2
<i>On the Accuracy of Parameter Estimation for Continuous Time Nonlinear Systems from Sampled Data (I)</i> , pp. 4308-4311.	
Carrasco, Diego S.	Univ. of Newcastle
Ljung, Lennart	Linköping Univ.
Goodwin, Graham C.	Univ. of Newcastle
Agüero, Juan C.	Univ. of Newcastle
17:10-17:30	TuC22.3
<i>On the Blocked Systems of Linear Systems with Mixed Frequency Data (I)</i> , pp. 4312-4317.	
Zamani, Mohsen	Australian National Univ.
Chen, Wei-tian	Australian National Univ.
Anderson, Brian D.O.	Australian National Univ.
Deistler, Manfred	Tech. Univ. of Vienna
Filler, Alexander	Wagner, Elbling and Company
17:30-17:50	TuC22.4
<i>Kernel Selection in Linear System Identification Part I: A Gaussian Process Perspective (I)</i> , pp. 4318-4325.	
Pillonetto, Gianluigi	Univ. of Padova
De Nicolao, Giuseppe	Univ. Pavia
17:50-18:10	TuC22.5
<i>Kernel Selection in Linear System Identification -- Part II: A Classical Perspective (I)</i> , pp. 4326-4331.	
Chen, Tianshi	Linköping Univ. Sweden
Ohlsson, Henrik	Linköping Univ.
Goodwin, Graham C.	Univ. of Newcastle
Ljung, Lennart	Linköping Univ.

Technical Program for Wednesday December 14, 2011

WePL	Bonnet Creek Ballroom VI & IX
Statistical Methods in Cancer Biology (Plenary Session)	
Chair: Morari, Manfred	ETH Zurich
08:30-09:30	WePL.1
<i>Statistical Methods in Cancer Biology*</i> Vidyasagar, Mathukumalli	The Univ. of Texas at Dallas
WeA01	Orange
Distribution/Retail Level Cyber Enabled Demand Management (Invited Session)	
Chair: Caramanis, Michael C.	Boston Univ.
Co-Chair: Baillieul, John	Boston Univ.
Organizer: Caramanis, Michael C.	Boston Univ.
Organizer: Baillieul, John	Boston Univ.
Organizer: Stoustrup, Jakob	Aalborg Univ.
Organizer: Annaswamy, Anuradha	Massachusetts Inst. of Tech.
10:00-10:20	WeA01.1
<i>Examining Uncertainty in Demand Response Baseline Models and Variability in Automated Responses to Dynamic Pricing (I)</i> , pp. 4332-4339. Mathieu, Johanna L	Univ. of California, Berkeley
Callaway, Duncan	Univ. of California, Berkeley
Kiliccote, Sila	Lawrence Berkeley National Lab.
10:20-10:40	WeA01.2
<i>Uniform and Complex Bids for Demand Response and Wind Generation Scheduling in Multi-Period Linked Transmission and Distribution Markets (I)</i> , pp. 4340-4347. Caramanis, Michael C.	Boston Univ.
Foster, Justin M.	Boston Univ.
10:40-11:00	WeA01.3
<i>Multi-Period Optimal Energy Procurement and Demand Response in Smart Grid with Uncertain Supply (I)</i> , pp. 4348-4353. Jiang, Libin	Caltech
Low, Steven	California Inst. of Tech.
11:00-11:20	WeA01.4
<i>Utilizing Automated Demand Response in Commercial Buildings As Non-Spinning Reserve Product for Ancillary Services Markets (I)</i> , pp. 4354-4360. Kiliccote, Sila	Lawrence Berkeley National Lab.
Piette, Mary Ann	Lawrence Berkeley National Lab.
Koch, Edward	Honeywell
Hennage, Dan	Akuacom
11:20-11:40	WeA01.5
<i>Assessing the Contribution of Demand Side Management to Power System Flexibility (I)</i> , pp. 4361-4365. Rosso, Angel	Univ. of Manchester
Ma, Juan	Univ. of Manchester
Kirschen, Daniel	Univ. of Washington
Ochoa, Luis F.	The Univ. of Manchester
WeA02	Dixie
Genetic Regulatory Systems (Regular Session)	
Chair: Singh, Abhyudai	Univ. of California at San Diego
Co-Chair: Montefusco, Francesco	Univ. of Exeter
10:00-10:20	WeA02.1
<i>Genetic Negative Feedback Circuits for Filtering Stochasticity in Gene Expression</i> , pp. 4366-4370. Singh, Abhyudai	Univ. of Delaware

10:20-10:40	WeA02.2
<i>Probabilistic Control of Boolean Networks with Multiple Dynamics: Towards Control of Gene Regulatory Networks</i> , pp. 4371-4376.	
Kobayashi, Koichi	Japan Adv Inst. of Sci & Tech.
Hiraishi, Kunihiko	JAIST
10:40-11:00	WeA02.3
<i>Combination Therapy Design for Cancer: A Digital Systems Approach</i> , pp. 4377-4382.	
Layek, Ritwik	Texas A&M Univ.
Datta, Aniruddha	Texas A&M Univ.
Bittner, Michael	NHGRI
Dougherty, Edward	Texas A&M Univ.
11:00-11:20	WeA02.4
<i>Flow Cytometry Based State Aggregation of a Stochastic Model of Protein Expression</i> , pp. 4383-4388.	
Mirtabatabaei, Anahita	Univ. of California, Santa Barbara
Khammash, Mustafa H.	Univ. of California at Santa Barbara
Bullo, Francesco	Univ. California at Santa Barbara
11:20-11:40	WeA02.5
<i>An Observer for a Piecewise Affine Genetic Network Model with Boolean Observations</i> , pp. 4389-4394.	
Li, Xiao-Dong	INRIA Sophia Antipolis Mediterranee
Gouze, Jean-Luc	INRIA
Chaves, Madalena	INRIA
11:40-12:00	WeA02.6
<i>Reverse-Engineering Biological Interaction Networks from Noisy Data Using Regularized Least Squares and Instrumental Variables</i> , pp. 4395-4400.	
Montefusco, Francesco	Univ. of Exeter
Cosentino, Carlo	Univ. degli Studi Magna Graecia
Amato, Francesco	Univ. Magna Graecia di Catanzaro
Bates, Declan G.	Univ. of Exeter
WeA03	Columbia
Modeling I (Regular Session)	
Chair: Zanasi, Roberto	Univ. of Modena and Reggio Emilia
Co-Chair: Datta, Aniruddha	Texas A&M Univ.
10:00-10:20	WeA03.1
<i>Complex Dynamic Model of a Multi-Phase Asynchronous Motor with Harmonic Injection</i> , pp. 4401-4406.	
Zanasi, Roberto	Univ. of Modena and Reggio Emilia
Azzone, Giovanni	Univ. of Modena and Reggio Emilia
10:20-10:40	WeA03.2
<i>Eliminating Oscillations in TRV Controlled Hydronic Radiators</i> , pp. 4407-4412.	
Tahersima, Fatemeh	Aalborg Univ.
Stoustrup, Jakob	Aalborg Univ.
Rasmussen, Henrik	Aalborg Univ.
10:40-11:00	WeA03.3
<i>About Friction Modeling for Observer-Based Leak Estimation in Pipelines</i> , pp. 4413-4418.	
Dulhoste, Jean-francois	Escuela De Ingenieria Mecanica Ula
Besancon, Gildas	GIPSA-Lab. Grenoble INP
Torres Ortiz, Flor Lizeth	INPG
Begovich, Ofelia	CINVESTAV-Guadalajara
Navarro, Adrian	CINVESTAV
11:00-11:20	WeA03.4
<i>Modeling Cell-Fractone Dynamics Using Mathematical Control Theory</i> , pp. 4419-4423.	
Chyba, Monique	Univ. of Hawaii
Marriott, John	Univ. of Hawaii

Mercier, Frederic	Univ. of Hawaii at Manoa
Rader, John	Univ. of Hawaii at Manoa
Telleschi, Giulio	Univ. of Pisa
11:20-11:40	WeA03.5
<i>Parameter Estimation of Biological Phenomena Modeled by S-Systems: An Extended Kalman Filter Approach</i> , pp. 4424-4429.	
Meskin, Nader	Qatar Univ.
Nounou, Hazem	Texas A&M Univ. at Qatar
Nounou, Mohamed	Texas A&M Univ. at Qatar
Datta, Aniruddha	Texas A&M Univ.
Dougherty, Edward	Texas A&M Univ.
11:40-12:00	WeA03.6
<i>Assimilation of Ozone Measurements in the Air Quality Model AURORA by Using the Ensemble Kalman Filter</i> , pp. 4430-4435.	
Agudelo, Oscar Mauricio	Katholieke Univ. Leuven
Barrero Mendoza, Oscar	Univ. de Ibagué
Viaene, Peter	VITO - Flemish Inst. for Tech. Res.
De Moor, Bart L.R.	Katholieke Univ. Leuven
WeA04	Nassau
Optimization Algorithms I (Regular Session)	
Chair: Spall, James C.	Johns Hopkins Univ.
Co-Chair: Sepulchre, Rodolphe J.	Univ. de Liege
10:00-10:20	WeA04.1
<i>Multivariable Newton-Based Extremum Seeking</i> , pp. 4436-4441.	
Ghaffari, Azad	Joint Doctoral Programs between San Diego State Univ. Un
Krstic, Miroslav	Univ. of California, San Diego
Nesic, Dragan	Univ. of Melbourne
10:20-10:40	WeA04.2
<i>Cyclic Seesaw Optimization and Identification</i> , pp. 4442-4447.	
Spall, James C.	Johns Hopkins Univ.
10:40-11:00	WeA04.3
<i>Interconnection Conditions for the Stability of Nonlinear Sampled-Data Extremum Seeking Schemes</i> , pp. 4448-4454.	
Kvaternik, Karla	Univ. of Alberta
Pavel, Lacra	Univ. of Toronto
11:00-11:20	WeA04.4
<i>Low-Rank Optimization for Distance Matrix Completion</i> , pp. 4455-4460.	
Mishra, Bamdev	Univ. of Liège
Meyer, Gilles	Univ. of Liège
Sepulchre, Rodolphe J.	Univ. de Liege
11:20-11:40	WeA04.5
<i>Modeling the Transient Behavior of a Stochastic Gradient Algorithm</i> , pp. 4461-4466.	
Brockett, Roger	Harvard Univ.
11:40-12:00	WeA04.6
<i>Asynchronous Auction for Distributed Nonlinear Resource Allocation</i> , pp. 4467-4472.	
Bangla, Ajay Kumar	Boston Univ.
Castanon, David A.	Boston Univ.
WeA05	Taylor
Dynamics Over Complex Networks - II (Invited Session)	
Chair: Yildiz, Mehmet Ercan	MIT
Co-Chair: Ozdaglar, Asuman	MIT
Organizer: Yildiz, Mehmet Ercan	MIT
Organizer: Ozdaglar, Asuman	MIT

10:00-10:20		WeA05.1
<i>Language Evolution in Finite Populations (I)</i> , pp. 4473-4478.		
Fox, Michael J.		Georgia Inst. of Tech.
Shamma, Jeff S.		Georgia Inst. of Tech.
10:20-10:40		WeA05.2
<i>Uncoupled Potentials for Proportional Allocation Markets (I)</i> , pp. 4479-4484.		
Nadav, Uri		Stanford Univ.
Johari, Ramesh		Stanford Univ.
Roughgarden, Tim		Stanford
10:40-11:00		WeA05.3
<i>Emergent Behavior in Large Scale Networks (I)</i> , pp. 4485-4490.		
Almeida Santos, Augusto		Carnegie Mellon Univ. and Inst. for Systems and Robotics
Moura, Jose' M. F.		Carnegie Mellon Univ.
11:00-11:20		WeA05.4
<i>Hybrid Risk-Sensitive Mean-Field Stochastic Differential Games with Application to Molecular Biology (I)</i> , pp. 4491-4497.		
Zhu, Quanyan		Univ. of Illinois, Urbana-Champaign
Tembine, Hamidou		SUPELEC
Basar, Tamer		Univ. of Illinois, Urbana-Champaign
11:20-11:40		WeA05.5
<i>Analysis of Equilibria and Strategic Interaction in Complex Networks (I)</i> , pp. 4498-4503.		
Preciado, Victor M.		Univ. of Pennsylvania
Oh, Jaelynn		OPIM Department, Wharton School, Univ. of Pennsylvania
Jadbabaie, Ali		Univ. of Pennsylvania
11:40-12:00		WeA05.6
<i>Online Advertisement, Optimization and Stochastic Networks (I)</i> , pp. 4504-4509.		
Tan, Bo		Univ. of Illinois at Urbana-Champaign
Srikant, R		Univ. of Illinois, Urbana-Champaign
WeA06		Jackson
Control of Communications Systems (Regular Session)		
Chair: Qu, Zhihua		Univ. of Central Florida
Co-Chair: Li, Chaoyong		Univ. of Central Florida
10:00-10:20		WeA06.1
<i>Distributed Extremum Seeking and Cooperative Control for Mobile Communication</i> , pp. 4510-4515.		
Li, Chaoyong		Univ. of Central Florida
Qu, Zhihua		Univ. of Central Florida
Ingram, Mary Ann		Gatech
10:20-10:40		WeA06.2
<i>Dynamic Routing Games: An Evolutionary Game Theoretic Approach</i> , pp. 4516-4521.		
Tembine, Hamidou		SUPELEC
Azad, Amar Prakash		SOE, UCSC
10:40-11:00		WeA06.3
<i>Optimal Encoders and Controllers in Stochastic Control Design Subject to Rate Constraints for Channels with Memory and Feedback</i> , pp. 4522-4527.		
Charalambous, Charalambos D.		Univ. of Cyprus
Kourtellaris, Christos		Univ. of Cyprus
Hadjicostis, Christoforos		Univ. of Cyprus
11:00-11:20		WeA06.4
<i>Local Stability of High Order Power Control in Cellular Networks</i> , pp. 4528-4534.		
Heinrich, Benjamin		Univ. of Stuttgart
Moller, Anders		Royal Inst. of Tech.
Jonsson, Ulf T.		Royal Inst. of Tech. (KTH)
11:20-11:40		WeA06.5

Stability of Rate and Power Control Algorithms in Wireless Cellular Networks, pp. 4535-4541.

Moller, Anders	Royal Inst. of Tech.
Jonsson, Ulf T.	Royal Inst. of Tech. (KTH)
Blomgren, Mats	Ericsson Res.
Gunnarsson, Fredrik	Linkoping Univ.

11:40-12:00 WeA06.6

Lyapunov Functions for L2 and Input-To-State Stability in a Class of Quantized Control Systems, pp. 4542-4547.

Teel, Andrew R.	Univ. of California at Santa Barbara
Nesic, Dragan	Univ. of Melbourne

WeA07 Escambia

Estimation I (Regular Session)

Chair: Dumur, Didier	Ec. Superieure d'Electricite
Co-Chair: Groff, Richard	Clemson Univ.

10:00-10:20 WeA07.1

A LEGO-Based Mobile Robotic Platform for Evaluation of Parallel Control and Estimation Algorithms, pp. 4548-4553.

Wahlberg, Fredrik	Uppsala Univ.
Medvedev, Alexander V.	Uppsala Univ.
Rosén, Olov	Uppsala Univ.

10:20-10:40 WeA07.2

Optimization of the Interval Approach for Chlorella Vulgaris Biomass Estimation, pp. 4554-4559.

Filali, Rayen	Supélec
Badea, Cristian Andrei	Supélec
Tebbani, Sihem	Supélec
Dumur, Didier	Ec. Superieure d'Electricite
Diop, Sette	CNRS
Pareau, Dominique	Ec. Centrale Paris
Lopes, Filipa	Ec. Centrale Paris

10:40-11:00 WeA07.3

Toward Estimating Concentration Fields in Biological Hydrogels Using Point Sensors, pp. 4560-4565.

Mattimore, Justin P.	Clemson Univ.
Groff, Richard E.	Clemson Univ.
Kolodzey, William	Clemson Univ.

11:00-11:20 WeA07.4

A Minimum Energy Solution to Monocular Simultaneous Localization and Mapping, pp. 4566-4571.

Alessandretti, Andrea	Inst. for Systems and Robotics / Inst. Superior Técnico,
Aguiar, A. Pedro	Inst. Superior Técnico, Tech. Univ. of Lisbon
Hespanha, Joao P.	Univ. of California, Santa Barbara
Valigi, Paolo	Univ. di Perugia

11:20-11:40 WeA07.5

Consensus-Based Estimation Protocol for Decentralized Dynamic Load Balancing Over Partially Connected Networks, pp. 4572-4579.

Wang, Zhuoyao	Univ. of New Mexico
Hayat, Majeed	Univ. of New Mexico
Rahnamay-Naeini, Mahshid	Univ. of New Mexico
Mostofi, Yasamin	Univ. of New Mexico
Pezoa, Jorge E.	Univ. of New Mexico

11:40-12:00 WeA07.6

Robust Tube-Based Constrained Predictive Control Via Zonotopic Set-Membership Estimation, pp. 4580-4585.

Le, Vu Tuan Hieu	Supélec
Stoica, Cristina Nicoleta	SUPELEC Systems Sciences (E3S)
Dumur, Didier	Ec. Superieure d'Electricite
Alamo, Teodoro	Univ. de Sevilla
Camacho, Eduardo F.	Univ. of Sevilla

WeA08		Flagler
Lyapunov Methods for Second Order Sliding Modes (Invited Session)		
Chair: Fridman, Leonid M.		National Autonomous Univ. of Mexico
Co-Chair: Moreno, Jaime A.		Univ. Nacional Autonoma de Mexico-UNAM
Organizer: Fridman, Leonid M.		National Autonomous Univ. of Mexico
Organizer: Moreno, Jaime A.		Univ. Nacional Autonoma de Mexico-UNAM
10:00-10:20		WeA08.1
<i>Lyapunov Stability Analysis of a Twisting Based Control Algorithm for Systems with Unmatched Perturbations (I)</i> , pp. 4586-4591.		
Estrada, Antonio		National Autonomous Univ.
Loria, Antonio		CNRS
Santiesteban, Raul		Inst. Tecnológico de Culiacán
Fridman, Leonid M.		National Autonomous Univ. of Mexico
10:20-10:40		WeA08.2
<i>Lyapunov-Based Second-Order Sliding Mode Control for a Class of Uncertain Reaction-Diffusion Processes (I)</i> , pp. 4592-4597.		
Orlov, Yury		CICESE
Pisano, Alessandro		Univ. of Cagliari
Scodina, Stefano		Univ. of Cagliari
Usai, Elio		Univ. degli Studi di Cagliari
10:40-11:00		WeA08.3
<i>Backstepping Fault Tolerant Control Based on Second Order Sliding Mode Observer : Application to Induction Motors (I)</i> , pp. 4598-4603.		
Djehali, Nadia		Univ. Mouloud Mammeri of Tizi-Ouzou
Ghanes, Malek		ENSEA
Djennoune, Saïd		Univ. of Mouloud Mammeri, Tizi-Ouzou
Barbot, Jean Pierre		ENSEA
11:00-11:20		WeA08.4
<i>Stability Margins in Traditional and Second Order Sliding Mode Control (I)</i> , pp. 4604-4609.		
Shtessel, Yuri B.		Univ. of Alabama at Huntsville
Foreman, David C.		davidson Tech. inc
Tournes, Christian H.		Univ. of Alabama at Huntsville
11:20-11:40		WeA08.5
<i>Finite Time Stabilization of Perturbed Double Integrator with Jumps in Velocity (I)</i> , pp. 4610-4615.		
Oza, Harshal		Univ. of Kent
Orlov, Yury		CICESE
Spurgeon, Sarah K.		Univ. of Kent
11:40-12:00		WeA08.6
<i>Second-Order Uniform Exact Sliding Mode Control with Uniform Sliding Surface (I)</i> , pp. 4616-4621.		
Cruz-Zavala, Emmanuel		Univ. Nacional Autonoma de Mexico
Moreno, Jaime A.		Univ. Nacional Autonoma de Mexico-UNAM
Fridman, Leonid M.		National Autonomous Univ. of Mexico
WeA09		Gilchrist
Nonlinear Systems VI (Regular Session)		
Chair: Christofides, Panagiotis D.		Univ. of California at Los Angeles
Co-Chair: Bitsoris, Georges		Univ. of Patras
10:00-10:20		WeA09.1
<i>Ultimate Boundedness and Robust Stabilization of Bilinear Discrete-Time Systems</i> , pp. 4622-4627.		
Athanasopoulos, Nikolaos		Univ. of Patras, Greece
Bitsoris, Georges		Univ. of Patras
Vassilaki, Marina		Univ. of Patras
10:20-10:40		WeA09.2

Compositional Properties of Passivity, pp. 4628-4633.

Kerber, Florian
van der Schaft, Arjan J.

Univ. of Groningen
Univ. of Groningen

10:40-11:00

WeA09.3

Proportional Integral Observer Design for Time Delay Nonlinear Triangular Systems, pp. 4634-4639.

Targui, Boubekeur
Magarotto, Eric
Pouliquen, Mathieu

ENSICAEN, UMR 6072 CNRS
Lap-ismra
Univ. de Caen

11:00-11:20

WeA09.4

Iterative Methods to Compute Center and Center-Stable Manifolds with Application to the Optimal Output Regulation Problem, pp. 4640-4645.

Sakamoto, Noboru
Rehak, Branislav

Nagoya Univ.
Inst. of Information Theory and Automation

11:20-11:40

WeA09.5

Economic Model Predictive Control Using Lyapunov Techniques: Handling Asynchronous, Delayed Measurements and Distributed Implementation, pp. 4646-4653.

Heidarinejad, Mohsen
Liu, Jinfeng
Christofides, Panagiotis D.

UCLA
Univ. of California, Los Angeles
Univ. of California at Los Angeles

11:40-12:00

WeA09.6

A Smooth Vector Field for Saddle Point Problems, pp. 4654-4660.

Dürr, Hans-Bernd
Ebenbauer, Christian

Univ. of Stuttgart
Univ. of Stuttgart

WeA10

Hamilton

Markov Processes (Regular Session)

Chair: Aberkane, Samir
Co-Chair: Meyn, Sean

UHP, NANCY 1
Univ. of Illinois

10:00-10:20

WeA10.1

Measurement of a Markov Jump Process: When Is It Too Costly?, pp. 4661-4667.

O'Connor, Alan Christopher

Harvard Univ.

10:20-10:40

WeA10.2

Stochastic Stability of Semi-Markov Jump Linear Systems: An LMI Approach, pp. 4668-4673.

Huang, Ji
Shi, Yang

Univ. of Victoria
Univ. of Victoria

10:40-11:00

WeA10.3

A Recursive Learning Algorithm for Model Reduction of Hidden Markov Models, pp. 4674-4679.

Deng, Kun
Mehta, Prashant G.
Meyn, Sean
Vidyasagar, Mathukumalli

Univ. of Illinois, Urbana-Champaign
Univ. of Illinois, Urbana-Champaign
Univ. of Illinois
The Univ. of Texas at Dallas

11:00-11:20

WeA10.4

Stochastic Stability and Ergodicity of Linear Gaussian Systems Controlled Over Discrete Channels, pp. 4680-4685.

Yuksel, Serdar

Queen's Univ.

11:20-11:40

WeA10.5

A Fault Detection Scheme for Discrete-Time Markov Jump Linear Systems, pp. 4686-4691.

Sajjai, Jedsada
Abdo, Ali
Damlakhi, Waseem
Ding, Steven X.

Univ. of Duisburg - Essen
Univ. of Duisburg - Essen
Duisburg-Essen Univ.
Univ. of Duisburg-Essen

11:40-12:00

WeA10.6

Bounded Real Lemma for Nonhomogeneous Markovian Jump Linear Systems, pp. 4692-4697.

Aberkane, Samir

UHP, NANCY 1

WeA11		Indian River
Recent Advances in Event-Triggered Control II (Invited Session)		
Chair: Hirche, Sandra		Tech. Univ. München
Co-Chair: Johansson, Karl H.		Royal Inst. of Tech.
Organizer: Hirche, Sandra		Tech. Univ. München
Organizer: Johansson, Karl H.		Royal Inst. of Tech.
Organizer: Heemels, W.P.M.H.		Eindhoven Univ. of Tech.
10:00-10:20		WeA11.1
<i>Attentively Efficient Controllers for Event-Triggered Feedback Systems (I)</i> , pp. 4698-4703.		
Wang, Xiaofeng		Univ. of Illinois at Urbana-Champaign
Lemmon, Michael		Univ. of Notre Dame
10:20-10:40		WeA11.2
<i>On the Optimal Sending Rate for Networked Control Systems with a Shared Communication Medium (I)</i> , pp. 4704-4709.		
Blind, Rainer		Univ. of Stuttgart
Allgower, Frank		Univ. of Stuttgart
10:40-11:00		WeA11.3
<i>Optimal Design of Decentralized Event-Triggered Controllers for Large-Scale Systems with Contention-Based Communication (I)</i> , pp. 4710-4716.		
Molin, Adam		Tech. Univ. München
Hirche, Sandra		Tech. Univ. München
11:00-11:20		WeA11.4
<i>On the Minimum Attention Control Problem for Linear Systems: A Linear Programming Approach (I)</i> , pp. 4717-4722.		
Donkers, Tijs		Eindhoven Univ. of Tech.
Tabuada, Paulo		Univ. of California at Los Angeles
Heemels, Maurice		Eindhoven Univ. of Tech.
11:20-11:40		WeA11.5
<i>Sporadic Event-Based Control Using Path Constraints and Moments (I)</i> , pp. 4723-4728.		
Henningsson, Toivo		Lund Univ.
11:40-12:00		WeA11.6
<i>Steady State Performance Analysis of Multiple State-Based Schedulers with CSMA (I)</i> , pp. 4729-4734.		
Ramesh, Chithrupa		Royal Inst. of Tech.
Sandberg, Henrik		KTH Royal Inst. of Tech.
Johansson, Karl H.		Royal Inst. of Tech.
WeA12		Lake
Hybrid and Switched Systems (Regular Session)		
Chair: Dormido, Sebastián		UNED
Co-Chair: Broucke, Mireille E.		Univ. of Toronto
10:00-10:20		WeA12.1
<i>Robust Control of Switched Linear Systems</i> , pp. 4735-4740.		
Kouhi Anbaran, Yashar		Max Planck Inst. for Dynamics of Complex Tech. Systems
Bajcinca, Naim		Max-Planck Inst. for Dynamics of Complex Tech. Systems
10:20-10:40		WeA12.2
<i>Monotonic Reach Control on Polytopes</i> , pp. 4741-4746.		
Helwa, Mohamed Khairy		Univ. of Toronto
Broucke, Mireille E.		Univ. of Toronto
10:40-11:00		WeA12.3
<i>Reach Controllability of Single Input Affine Systems</i> , pp. 4747-4752.		
semsar Kazerooni, Elham		Concordia Univ.
Broucke, Mireille E.		Univ. of Toronto
11:00-11:20		WeA12.4

Revisiting Synthesis of Switching Controllers for Linear Hybrid Systems, pp. 4753-4758.

Benerecetti, Massimo
Faella, Marco
Minopoli, Stefano

Univ. di Napoli "Federico II"
Univ. di Napoli
Univ. of Naples (Italy) "Federico II"

11:20-11:40

WeA12.5

A Limit Cycle Synthesis Method of Multi-Modal and 2-Dimensional Piecewise Affine Systems, pp. 4759-4764.

Kai, Tatsuya
Masuda, Ryo

Kyushu Univ.
Kubota Corp.

11:40-12:00

WeA12.6

Interactive Tool for Analysis of Reset Control Systems, pp. 4765-4770.

Dormido, Sebastián
Baños, Alfonso
Barreiro, Antonio

UNED
Univ. OF MURCIA
Univ. of Vigo (spain)

WeA13

Manatee

Constrained Control I (Regular Session)

Chair: Galeani, Sergio
Co-Chair: How, Jonathan P.

Univ. Di Roma Tor Vergata
MIT

10:00-10:20

WeA13.1

On Linear Over-Actuated Regulation Using Input Allocation, pp. 4771-4776.

Galeani, Sergio
Serrani, Andrea
Varano, Gianluca
Zaccarian, Luca

Univ. Di Roma Tor Vergata
The Ohio State Univ.
Univ. di Roma Tor Vergata
Univ. di Roma, Tor Vergata

10:20-10:40

WeA13.2

Population Dynamics Applied to Building Energy Efficiency, pp. 4777-4782.

Obando Bravo, Germán Darío
Quijano, Nicanor
Pantoja Bucheli, Andrés Darío

Univ. de los Andes
Univ. de los Andes
Univ. de los Andes

10:40-11:00

WeA13.3

An Anti-Windup Scheme with Embedded Internal Model Control Anti-Windup for Improved Performance, pp. 4783-4788.

Wu, Wei

Rockwell Coll.

11:00-11:20

WeA13.4

Periodic Constraint-Based Control Using Dynamic Wireless Sensor Scheduling, pp. 4789-4796.

Weimer, James
Araujo, Jose
Hernandez, Aitor
Johansson, Karl H.

Royal Inst. of Tech. (KTH)
Royal Inst. of Tech.
Royal Inst. of Tech. (KTH)
Royal Inst. of Tech.

11:20-11:40

WeA13.5

Anti-Windup Design for a Class of Multivariable Nonlinear Control Systems: An LMI-Based Approach, pp. 4797-4802.

Zardo Oliveira, Mauricio
Gomes da Silva Jr, Joao Manoel
Coutinho, Daniel
Tarbouriech, Sophie

UFRGS
Univ. Federal do Rio Grande do Sul (UFRGS)
Univ. Federal de Santa Catarina
LAAS-CNRS

11:40-12:00

WeA13.6

Energy Stabilization with Virtual Holonomic Constrains: The Pendubot Example, pp. 4803-4808.

Consolini, Luca
Maggiore, Manfredi

Univ. of Parma
Univ. of Toronto

WeA14

Sarasota

Decentralized Control I (Regular Session)

Chair: Shim, Hyungbo
Co-Chair: Huang, Haomiao

Seoul National Univ.
Stanford Univ.

10:00-10:20	WeA14.1
<i>Coding Strategies for a Class of Decentralized Control Problems with Limited Communication</i> , pp. 4809-4816.	
Mirghaderi, Reza	Stanford Univ.
Lall, Sanjay	Stanford Univ.
Goldsmith, Andrea	Stanford Univ.
10:20-10:40	WeA14.2
<i>Network Coding Meets Decentralized Control: Capacity-Stabilizability Equivalence</i> , pp. 4817-4822.	
Park, Se Yong	Univ. of California at Berkeley
Sahai, Anant	UC Berkeley
10:40-11:00	WeA14.3
<i>Droop Control Design for Multi-Terminal VSC-HVDC Grids Based on LMI Optimization</i> , pp. 4823-4828.	
Bianchi, Fernando	Catalonia Inst. for Energy Res.
Gomis-Bellmunt, Oriol	CITCEA-UPC and IREC
11:00-11:20	WeA14.4
<i>Stabilizability of a Group of Single Integrators and Its Application to Decentralized Formation Problem</i> , pp. 4829-4834.	
Kim, Hongkeun	Seoul National Univ.
Shim, Hyungbo	Seoul National Univ.
Back, Juhoon	Kwangwoon Univ.
Seo, Jin H.	Seoul National Univ.
11:20-11:40	WeA14.5
<i>Guaranteed Decentralized Pursuit-Evasion in the Plane with Multiple Pursuers</i> , pp. 4835-4840.	
Huang, Haomiao	Stanford Univ.
Zhang, Wei	Univ. of California at Berkeley
Ding, Jerry	Univ. of California - Berkeley
Stipanovic, Dusan M.	Univ. of Illinois, Urbana-Champaign
Tomlin, Claire J.	UC Berkeley
WeA15	Union
Formal Methods in Control: Applications (Invited Session)	
Chair: Ozay, Necmiye	California Inst. of Tech.
Co-Chair: Mazo Jr., Manuel	INCAS3 / Univ. of Groningen
Organizer: Ozay, Necmiye	California Inst. of Tech.
Organizer: Mazo Jr., Manuel	INCAS3 / Univ. of Groningen
Organizer: Julius, Agung	Rensselaer Pol. Inst.
10:00-10:20	WeA15.1
<i>Distributed Power Allocation for Vehicle Management Systems (I)</i> , pp. 4841-4848.	
Ozay, Necmiye	California Inst. of Tech.
Topcu, Ufuk	California Inst. of Tech.
Murray, Richard M.	California Inst. of Tech.
10:20-10:40	WeA15.2
<i>Development and Experimental Validation of a Semi-Autonomous Cooperative Active Safety System (I)</i> , pp. 4849-4854.	
Verma, Rajeev	Eaton Corp.
Del Vecchio, Domitilla	Massachusetts Institute of Tech.
10:40-11:00	WeA15.3
<i>Formal Analysis for Logical Models of Pancreatic Cancer (I)</i> , pp. 4855-4860.	
Gong, Haijun	Carnegie Mellon Univ.
Zuliani, Paolo	Carnegie Mellon Univ.
Wang, Qinsi	Carnegie Mellon Univ.
Clarke, Edmund M.	Carnegie Mellon Univ.
11:00-11:20	WeA15.4
<i>Approximate Abstractions of Stochastic Systems: A Randomized Method (I)</i> , pp. 4861-4866.	
Abate, Alessandro	TU Delft
Prandini, Maria	Pol. di Milano

11:20-11:40	WeA15.5
<i>Multi-Robot Deployment from LTL Specifications with Reduced Communication (I)</i> , pp. 4867-4872.	
Kloetzer, Marius	Tech. Univ. "Gheorghe Asachi" of Iasi
Ding, Xu Chu	Boston Univ.
Belta, Calin	Boston Univ.
11:40-12:00	WeA15.6
<i>A Formal Verification Approach to the Design of Synthetic Gene Networks (I)</i> , pp. 4873-4878.	
Yordanov, Boyan	Boston Univ.
Belta, Calin	Boston Univ.
WeA16	Palm Beach
Cooperative Control IV (Regular Session)	
Chair: Sarlette, Alain	Univ. of Liege (Belgium)
Co-Chair: Paley, Derek A.	Univ. of Maryland
10:00-10:20	WeA16.1
<i>Consensus on Nonlinear Spaces and Graph Coloring</i> , pp. 4885-4890.	
Sarlette, Alain	Ghent Univ.
10:00-10:20	WeA16.1
<i>Cooperative Control Based on Force-Reflection with Four-Channel Teleoperation System</i> , pp. 4879-4884.	
Do Duc, Nam	Hanoi Univ. of Science and Tech.
Namerikawa, Toru	Keio Univ.
10:40-11:00	WeA16.3
<i>Cooperative Control Design for Circular Flocking of Underactuated Hovercrafts</i> , pp. 4891-4896.	
Han, Thanh-Trung	Univ. of Electronic Science and Tech. of China
Ge, Shuzhi Sam	National Univ. of Singapore
11:00-11:20	WeA16.4
<i>Motion Coordination of Planar Rigid Bodies</i> , pp. 4897-4902.	
Mellish, Rochelle	Univ. of Maryland
Paley, Derek A.	Univ. of Maryland
11:20-11:40	WeA16.5
<i>A Unified Approach to the Velocity-Free Consensus Algorithms Design for Double Integrator Dynamics with Input Saturations</i> , pp. 4903-4908.	
Abdessameud, Abdelkader	Univ. of Western Ontario
Tayebi, Abdelhamid	Lakehead Univ.
WeA17	Alachua
Distributed Parameter Systems V (Invited Session)	
Chair: Demetriou, Michael A.	Worcester Pol. Inst.
Co-Chair: Krstic, Miroslav	Univ. of California, San Diego
Organizer: Demetriou, Michael A.	Worcester Pol. Inst.
10:00-10:20	WeA17.1
<i>Dwell Time Optimization in Switching Control of Parameter Varying Time Delay Systems (I)</i> , pp. 4909-4914.	
Ozbay, Hitay	Bilkent Univ.
Yan, Peng	United Tech. Res. Center
Sansal, Murat	Hacettepe Univ.
10:20-10:40	WeA17.2
<i>ISS Lyapunov Functions for Time-Varying Hyperbolic Partial Differential Equations (I)</i> , pp. 4915-4920.	
Prieur, Christophe	Gipsa-Lab.
Mazenc, Frederic	Team INRIA DISCO
10:40-11:00	WeA17.3
<i>Linking Hyperbolic and Parabolic P.d.e.'s (I)</i> , pp. 4921-4924.	
Zwart, Hans	Univ. of Twente

Le Gorrec, Yann Maschke, Bernhard	ENSMM, FEMTO-ST / AS2M Univ. Claude Bernard of Lyon
11:00-11:20	WeA17.4
<i>Robust Fault Detection and Reconfigurable Control of Uncertain Sampled-Data Distributed Processes (I)</i> , pp. 4925-4930.	
Yao, Zhiyuan El-Farra, Nael H.	Univ. of California, Davis Univ. of California, Davis
11:20-11:40	WeA17.5
<i>Rejection of Sinusoids from Nonlinearly Perturbed Uncertain Regular Linear Systems (I)</i> , pp. 4931-4936.	
Natarajan, Vivek Bentsman, Joseph	Univ. of Illinois, Urbana-Champaign Univ. of Illinois at Urbana-Champaign
11:40-12:00	WeA17.6
<i>Backstepping Boundary Stabilization and State Estimation of a 2 X 2 Linear Hyperbolic System (I)</i> , pp. 4937-4942.	
Vazquez, Rafael Krstic, Miroslav Coron, Jean-michel	Univ. de Sevilla Univ. of California, San Diego Univ. Pierre et Marie Curie
WeA18	Baker
Uncertain Systems I (Regular Session)	
Chair: Gutman, Per-Olof Co-Chair: Scorletti, Gerard	Tech. Ec. Centrale de Lyon
10:00-10:20	WeA18.1
<i>Robust Optimization of Operations in Energy Hub</i> , pp. 4943-4948.	
Parisio, Alessandra Del Vecchio, Carmen Velotto, Giovanni	Univ. del Sannio Univ. Del Sannio Univ. degli Studi del Sannio
10:20-10:40	WeA18.2
<i>Robust L2-Gain Observation for Structured Uncertainties: An LMI Approach</i> , pp. 4949-4954.	
Bayon, Benoit Scorletti, Gerard Blanco, Eric	Ec. Centrale de Lyon Ec. Centrale de Lyon Ec. Centrale de Lyon
10:40-11:00	WeA18.3
<i>Robust Stability of Time-Delay Systems with Structured Uncertainties: A μ-Analysis Based Algorithm</i> , pp. 4955-4960.	
Lescher, Fabien Roos, Clément	ONERA ONERA
11:00-11:20	WeA18.4
<i>Constrained Interpolation-Based Control for Polytopic Uncertain Systems</i> , pp. 4961-4966.	
Nguyen, Hoai Nam Olaru, Sorin Gutman, Per-Olof Hovd, Morten	SUPELEC Systems Sciences (E3S) - Automatic Control Department, G Supelec Tech. Norwegian Univ. of Sci & Tech.
11:20-11:40	WeA18.5
<i>Moving Pattern-Based Forecasting Model of a Class of Complex Dynamical Systems</i> , pp. 4967-4972.	
Xu, Zhengguang Sun, Changping	Univ. of Science and Tech. Beijing Univ. of Science and Tech. Beijing
11:40-12:00	WeA18.6
<i>Fault-Tolerant Control of Dynamic Systems with Unknown Control Direction-Input Nonlinearities-Actuator Failures</i> , pp. 4973-4978.	
Liu, Xiaoyan Song, Yong Duan Song, Qi	Beijing Jiaotong Univ. Beijing Jiaotong Univ. Beijing Jiaotong Univ.

Crossroad of Control Theory and Vision (Invited Session)

Chair: Hatanaka, Takeshi	Tokyo Inst. of Tech.
Co-Chair: Sznaier, Mario	Northeastern Univ.
Organizer: Hatanaka, Takeshi	Tokyo Inst. of Tech.
Organizer: Sznaier, Mario	Northeastern Univ.

10:00-10:20 WeA19.1

Cooperative Estimation of 3D Target Object Motion Via Networked Visual Motion Observers (I), pp. 4979-4984.

Hatanaka, Takeshi	Tokyo Inst. of Tech.
Hirata, Kenji	Nagaoka Univ. of Tech.
Fujita, Masayuki	Tokyo Inst. of Tech.

10:20-10:40 WeA19.2

Sensors Searching for Interesting Things: Extremum Seeking Control on Entropy Maps (I), pp. 4985-4991.

Zhang, Yinghua	The Univ. of Texas at Dallas
Rotea, Mario	The Univ. of Texas at Dallas
Gans, Nicholas	Univ. of Texas at Dallas

10:40-11:00 WeA19.3

Depth Invariant Visual Servoing (I), pp. 4992-4998.

Karasev, Peter	Georgia Inst. of Tech.
Serrano, Miguel	Georgia Inst. of Tech.
Vela, Patricio	Georgia Inst. of Tech.
Tannenbaum, Allen	Georgia Tech.

11:00-11:20 WeA19.4

Visual Feedback Pose Synchronization with a Generalized Camera Model (I), pp. 4999-5004.

Ibuki, Tatsuya	Tokyo Inst. of Tech.
Hatanaka, Takeshi	Tokyo Inst. of Tech.
Fujita, Masayuki	Tokyo Inst. of Tech.
Spong, Mark W.	Univ. of Texas at Dallas

11:20-11:40 WeA19.5

Structure Estimation of a Moving Object Using a Moving Camera: An Unknown Input Observer Approach (I), pp. 5005-5010.

Dani, Ashwin	Univ. of Illinois at Urbana-Champaign
Kan, Zhen	Univ. of Florida
Fischer, Nicholas	Univ. of Florida
Dixon, Warren E.	Univ. of Florida

11:40-12:00 WeA19.6

Hybrid System Identification with Faulty Measurements and Its Application to Activity Analysis (I), pp. 5011-5016.

Ozay, Necmiye	California Inst. of Tech.
Sznaier, Mario	Northeastern Univ.

WeA20

Broward

New Developments in Stochastic Systems and Control (Invited Session)

Chair: Pasik-Duncan, Bozenna	Univ. of Kansas
Co-Chair: Duncan, Tyrone E.	Univ. of Kansas
Organizer: Pasik-Duncan, Bozenna	Univ. of Kansas
Organizer: Duncan, Tyrone E.	Univ. of Kansas

10:00-10:20 WeA20.1

Hybrid Switching Diffusions: Continuity and Differentiability (I), pp. 5017-5022.

Yin, George	Wayne State Univ.
Zhu, Chao	Univ. of Wisconsin-Milwaukee

10:20-10:40 WeA20.2

An Optimization Approach to the Witsenhausen Counterexample (I), pp. 5023-5028.

McEneaney, William	Univ. of California, San Diego
Han, Seung Hak	Univ. of California San Diego
Liu, Andrew R.	Univ. of California, San Diego

10:40-11:00	WeA20.3
<i>An Evolution Mean Field Equation System of Initial Mean Consensus Behaviour: A Stability Analysis (I)</i> , pp. 5029-5034.	
Nourian, Mojtaba	McGill Univ.
Caines, Peter E.	McGill Univ.
Malhame, Roland P.	Ec. Pol. de Montreal
11:00-11:20	WeA20.4
<i>Control of Some Partially Observed Linear Stochastic Systems with Fractional Brownian Motions (I)</i> , pp. 5035-5040.	
Duncan, Tyrone E.	Univ. of Kansas
Pasik-Duncan, Bozenna	Univ. of Kansas
11:20-11:40	WeA20.5
<i>Towards a Theory of Stochastic Adaptive Differential Games (I)</i> , pp. 5041-5046.	
Li, Yan	AMSS,CAS
Guo, Lei	Chinese Academy of Sciences
11:40-12:00	WeA20.6
<i>Optimality of Periodwise Static Priority Policies in Real-Time Communications (I)</i> , pp. 5047-5051.	
Hou, I-Hong	Univ. of Illinois, Urbana-Champaign
Truong, Anh	Univ. of Illinois at Urbana-Champaign
Chakraborty, Santanu	Univ. of Illinois, Urbana Champaign
Kumar, P. R.	Texas A&M Univ.
WeA21	Brevard
Agents and Autonomous Systems VI (Regular Session)	
Chair: Valcher, Maria Elena	Univ. di Padova
Co-Chair: Maggiore, Manfredi	Univ. of Toronto
10:00-10:20	WeA21.1
<i>Distributed Circular Formation Stabilization of Unicycles; Part I: Undirected Information Flow</i> , pp. 5052-5057.	
El-Hawwary, Mohamed, I.	Univ. of Toronto
Maggiore, Manfredi	Univ. of Toronto
10:20-10:40	WeA21.2
<i>Distributed Circular Formation Stabilization of Unicycles; Part II: Arbitrary Information Flow Graph</i> , pp. 5058-5063.	
El-Hawwary, Mohamed, I.	Univ. of Toronto
Maggiore, Manfredi	Univ. of Toronto
10:40-11:00	WeA21.3
<i>Preliminary Results on the Controllability and Stabilizability of Non-Homogeneous Multi-Agent Dynamical Systems</i> , pp. 5064-5069.	
Valcher, Maria Elena	Univ. di Padova
Misra, Pradeep	Wright State Univ.
11:00-11:20	WeA21.4
<i>A New Condition for Convergence in Continuous-Time Consensus Seeking Systems</i> , pp. 5070-5075.	
Hendrickx, Julien M.	Univ. catholique de Louvain
Tsitsiklis, John	Massachusetts Inst. of Tech.
11:20-11:40	WeA21.5
<i>Tracking Control of Multiple Nonlinear Systems Via Information Interchange</i> , pp. 5076-5081.	
Dong, Wenjie	The Univ. of Texas - Pan American
Ben Ghalia, Mounir	The Univ. of Texas - Pan American
Farrell, Jay	Univ. of California Riverside
11:40-12:00	WeA21.6
<i>Freshwater-Saltwater Boundary Detection Using Mobile Sensors - Part II: Drifter Movement</i> , pp. 5082-5087.	
Ru, Yu	Univ. of California, San Diego
Martinez, Sonia	Univ. of California at San Diego

WeA22 Bradford

Identification for Control (Regular Session)

Chair: Rojas, Cristian R. ACCESS Linnaeus Center, KTH
 Co-Chair: Wahlberg, Bo KTH Royal Inst. of Tech.

10:00-10:20 WeA22.1

Joint Stiffness Identification from Only Motor Force/Torque Data, pp. 5088-5093.

Gautier, Maxime Univ. of Nantes
 Janot, Alexandre ONERA
 Jubien, Anthony Univ. de nantes
 Vandanjon, Pierre-Olivier French Inst. of sciences and Tech. for transport, devel

10:20-10:40 WeA22.2

On Consistent Estimation of Farthest NMP Zeros of Stable LTI Systems, pp. 5094-5099.

Huang, Lirong KTH Royal Inst. of Tech.
 Hjalmarsson, Håkan Royal Inst. of Tech.
 Rojas, Cristian R. ACCESS Linnaeus Center, KTH

10:40-11:00 WeA22.3

Parametric MIMO Parallel Wiener Identification, pp. 5100-5105.

Schoukens, Maarten Vrije Univ. Brussel
 Rolain, Yves J. Vrije Univ. Brussels

11:00-11:20 WeA22.4

Noniterative Data-Driven Design of Multivariable Controllers (I), pp. 5106-5111.

Formentin, Simone Pol. di Milano
 Savaresi, Sergio M. Pol. Di Milano

11:20-11:40 WeA22.5

Experimental Joint Stiffness Identification Depending on Measurements Availability, pp. 5112-5117.

Janot, Alexandre ONERA
 Gautier, Maxime Univ. of Nantes
 Jubien, Anthony Univ. de nantes
 Vandanjon, Pierre-Olivier French Inst. of sciences and Tech. for transport, devel

11:40-12:00 WeA22.6

On Optimal Input Signal Design for Identification of Output Error Models, pp. 5118-5124.

Wahlberg, Bo KTH Royal Inst. of Tech.
 Annergren, Mariette Jenny Erika The Royal Inst. of Tech. Stockholm
 Rojas, Cristian R. ACCESS Linnaeus Center, KTH

WeSP1

Bonnet Creek Ballroom III & VI

Are Stochastic Dynamics the Foundation of Intelligence? (Semiplenary Session)

Chair: Panayiotou, Christos Univ. of Cyprus

13:30-14:20 WeSP1.1

*Are Stochastic Dynamics the Foundation of Intelligence?**.

Gong, Weibo Univ. of Massachusetts at Amherst

WeSP2

Bonnet Creek Ballroom IX & XII

Control of Distributed Systems (Semiplenary Session)

Chair: Dixon, Warren E. Univ. of Florida

13:30-14:20 WeSP2.1

*Control of Distributed Systems**.

van Schuppen, Jan H. CWI

WeB01

Orange

Green Buildings: Challenges for Control (Invited Session)

Chair: Pappas, George J. Univ. of Pennsylvania
 Co-Chair: Borrelli, Francesco University of California at Berkeley

Organizer: Pappas, George J.	Univ. of Pennsylvania
Organizer: Borrelli, Francesco	University of California at Berkeley
14:30-14:50	WeB01.1
<i>Analysis of Local Optima in Predictive Control for Energy Efficient Buildings (I)</i> , pp. 5125-5130.	
Kelman, Anthony	Univ. of California, Berkeley
Ma, Yudong	UC Berkeley CA USA
Borrelli, Francesco	University of California at Berkeley
14:50-15:10	WeB01.2
<i>Green Scheduling of Control Systems for Peak Demand Reduction (I)</i> , pp. 5131-5136.	
Nghiem, Truong X.	Univ. of Pennsylvania
Behl, Madhur	Univ. of Pennsylvania
Mangharam, Rahul	Univ. of Pennsylvania
Pappas, George J.	Univ. of Pennsylvania
15:10-15:30	WeB01.3
<i>Parameter Estimation of a Building System Model and Impact of Estimation Error on Closed-Loop Performance (I)</i> , pp. 5137-5143.	
Bengea, Sorin C.	United Tech. Res. Center
Adetola, Veronica	United Tech. Res. Center
Kang, Keunmo	United Tech. Res. Center
Liba, Michael	Hatch
Vrabie, Draguna	United Tech. Res. Center
Bitmead, Robert	Univ. of California San Diego
Narayanan, Satish	United Tech. Res. Center
15:30-15:50	WeB01.4
<i>Scheduling Smart Home Appliances Using Mixed Integer Linear Programming (I)</i> , pp. 5144-5149.	
Sou, Kin Cheong	Royal Inst. of Tech.
Weimer, James	ACCESS Linnaeus Center and Automatic Control Lab.
Sandberg, Henrik	KTH Royal Inst. of Tech.
Johansson, Karl H.	Royal Inst. of Tech.
15:50-16:10	WeB01.5
<i>Energy Management for Buildings and Microgrids (I)</i> , pp. 5150-5157.	
Stluka, Petr	Honeywell
Godbole, Dattaprabodh N.	Honeywell Lab.
Samad, Tariq	Honeywell Lab.
WeB02	
Metabolic Systems (Regular Session)	
Chair: Del Re, Luigi	Johannes Kepler Univ. Linz
Co-Chair: Fromion, Vincent	INRA
14:30-14:50	WeB02.1
<i>Reading Blood Glucose from Subcutaneous Electric Current by Means of a Regularization in Variable Reproducing Kernel Hilbert Spaces (I)</i> , pp. 5158-5163.	
Naumova, Valeriya	Johann Radon Inst. for Computational and Applied Mathematics
Pereverzev, Sergei	Johann Radon Inst. for Computational and Applied Mathematics
Sampath, Sivananthan	Johann Radon Inst. for Computational and Applied Mathematics
14:50-15:10	WeB02.2
<i>Adaptive Subspace-Based Prediction of T1DM Glycemia (I)</i> , pp. 5164-5169.	
Cescon, Marzia	Lund Univ.
Renard, Eric	Centre Hospitalier Univ. de Montpellier
15:10-15:30	WeB02.3
<i>Patient-Specific Performance Evaluation for Insulin Control Systems (I)</i> , pp. 5170-5175.	
Winkler, Anastasia	Johannes Kepler Univ. Linz
Kirchsteiger, Harald	Johannes Kepler Univ. Linz
Del Re, Luigi	Johannes Kepler Univ. Linz

Renard, Eric	Centre Hospitalier Univ. de Montpellier
15:30-15:50	WeB02.4
<i>Direct Continuous Time System Identification of MISO Transfer Function Models Applied to Type 1 Diabetes (I)</i> , pp. 5176-5181.	
Kirchsteiger, Harald	Johannes Kepler Univ. Linz
Pölzer, Stephan	JKU Linz
Johansson, Rolf	Lund Univ.
Renard, Eric	Centre Hospitalier Univ. de Montpellier
Del Re, Luigi	Johannes Kepler Univ. Linz
15:50-16:10	WeB02.5
<i>Lyapunov Function for Irreversible Linear Metabolic Pathways with Allosteric and Genetic Regulation</i> , pp. 5182-5187.	
Meslem, Nacim	Ec. des Mines de Douai
Fromion, Vincent	INRA
WeB03	Columbia
Modeling II (Regular Session)	
Chair: Georgiou, Tryphon T.	Univ. of Minnesota
Co-Chair: Finke, Jorge	Univ. Javeriana
14:30-14:50	WeB03.1
<i>Sparse Factor Analysis Via Likelihood and ℓ_1-Regularization</i> , pp. 5188-5192.	
Ning, Lipeng	Univ. of Minnesota
Georgiou, Tryphon T.	Univ. of Minnesota
14:50-15:10	WeB03.2
<i>KPCA Based Multi-Spectral Segments Feature Extraction and GA Based Compound Optimization for Frequency Spectrum Data Modeling</i> , pp. 5193-5198.	
Tang, Jian	Northeast Univ.
Chai, Tianyou	Northeastern Univ.
Yu, Wen	CINVESTAV-IPN
Zhao, Lijie	Shenyang Univ. of Chemical Tech.
Qin, S. Joe	Univ. of Southern California
15:10-15:30	WeB03.3
<i>Representation of a General Composition of Dirac Structures</i> , pp. 5199-5204.	
Batlle, Carles	Univ. Pol. de Catalunya
Massana, Imma	Univ. Pol. de Catalunya
Simó, Ester	Univ. Pol. de Catalunya
15:30-15:50	WeB03.4
<i>Linearization Modeling for Non-Smooth Dynamical Systems with Approximated Scalar Sign Function</i> , pp. 5205-5210.	
Zhang, Jian	Prairie View A&M Univ.
Zhang, Yongpeng	Prairie View A & M Univ.
Ali, Warsame	Prairie View A&M Univ.
Shieh, Leang-San	Univ. of Houston
15:50-16:10	WeB03.5
<i>Heavy-Tailed Weighted Networks from Local Attachment Strategies</i> , pp. 5211-5216.	
Moriano, Pablo	Pontificia Univ. Javeriana
Finke, Jorge	Pontificia Univ. Javeriana
WeB04	Nassau
Optimization Algorithms II (Regular Session)	
Chair: Balakrishnan, Venkataramanan	Purdue Univ.
Co-Chair: Doan, Minh Dang	Delft Univ. of Tech.
14:30-14:50	WeB04.1
<i>A Condensed and Sparse QP Formulation for Predictive Control</i> , pp. 5217-5222.	
Jerez, Juan Luis	Imperial Coll.

Kerrigan, Eric C.	Imperial Coll. London
Constantinides, George A.	Imperial Coll. London
14:50-15:10	WeB04.2
<i>Towards Computational Complexity Certification for Constrained MPC Based on Lagrange Relaxation and the Fast Gradient Method</i> , pp. 5223-5229.	
Richter, Stefan	ETH Zurich
Morari, Manfred	ETH Zurich
Jones, Colin Neil	EPFL, Switzerland
15:10-15:30	WeB04.3
<i>Rigorous Solution vs. Fast Update: Acceptable Computational Delay in NMPC</i> , pp. 5230-5235.	
Wolf, Inga Janina	RWTH Aachen Univ.
Wuerth, Lynn	RWTH Aachen Univ.
Marquardt, Wolfgang	RWTH Aachen Univ.
15:30-15:50	WeB04.4
<i>A Distributed Optimization-Based Approach for Hierarchical MPC of Large-Scale Systems with Coupled Dynamics and Constraints</i> , pp. 5236-5241.	
Doan, Minh Dang	Delft Univ. of Tech.
Keviczky, Tamas	Delft Univ. of Tech.
De Schutter, Bart	Delft Univ. of Tech.
15:50-16:10	WeB04.5
<i>Comparison of Two Nonlinear Model Predictive Control Methods and Implementation on a Laboratory Three Tank System</i> , pp. 5242-5247.	
Bamimore, Ayorinde	Obafemi Awolowo Univ. Ile-Ife, Nigeria
Taiwo, Oluwafemi	Obafemi Awolowo Univ.
King, Rudibert	Tech. Univ. of Berlin
WeB05	Taylor
Networked Control Systems VII (Regular Session)	
Chair: Franze', Giuseppe	Univ. Degli Studi della Calabria
Co-Chair: Hassibi, Babak	Caltech
14:30-14:50	WeB05.1
<i>Link Failure Detection in Multi-Hop Control Networks</i> , pp. 5248-5253.	
D'Innocenzo, Alessandro	Univ. of L'Aquila
Di Benedetto, M. Domenica	Univ. of L'Aquila
Serra, Emmanuele	Univ. of L'Aquila
14:50-15:10	WeB05.2
<i>Anytime Reliable Codes for Stabilizing Plants Over Erasure Channels</i> , pp. 5254-5259.	
Sukhavasi, Ravi Teja	California Inst. of Tech.
Hassibi, Babak	Caltech
15:10-15:30	WeB05.3
<i>Receding Horizon Control for Constrained Networked Systems Subject to Data-Losses</i> , pp. 5260-5265.	
Franze', Giuseppe	Univ. Degli Studi della Calabria
Famularo, Domenico	Univ. degli Studi della Calabria
Tedesco, Francesco	Univ. della Calabria
15:30-15:50	WeB05.4
<i>Co-Design of Wireless Sensor-Actuator Networks for Building Controls</i> , pp. 5266-5273.	
Mady, Alie El-Din	Cork Complex Systems Lab. (CCSL), Department of Computer S
Provan, Gregory	Univ. Coll. Cork
15:50-16:10	WeB05.5
<i>Stabilization of Multirate Networked Control Systems</i> , pp. 5274-5280.	
Chen, Wei	The Hong Kong Univ. of Science and Tech.
Qiu, Li	Hong Kong Univ. of Sci. & Tech.

WeB06	Jackson
Transportation Networks (Regular Session)	
Chair: Farrell, Jay	Univ. of California Riverside
Co-Chair: Bloem, Michael	NASA Ames Res. Center
14:30-14:50	WeB06.1
<i>Distributed-Infrastructure Multi-Robot Routing Using a Helmholtz-Hodge Decomposition</i> , pp. 5281-5286.	
Kingston, Peter	Georgia Inst. of Tech.
Egerstedt, Magnus	Georgia Inst. of Tech.
14:50-15:10	WeB06.2
<i>Coordinated Tactical Air Traffic and Airspace Management</i> , pp. 5287-5292.	
Bloem, Michael	NASA Ames Res. Center
Bambos, Nicholas	Univ. of California at Los Angeles
15:10-15:30	WeB06.3
<i>Optimization-Based Road Curve Fitting</i> , pp. 5293-5298.	
Zhao, Sheng	Univ. of California, Riverside
Farrell, Jay	Univ. of California Riverside
15:30-15:50	WeB06.4
<i>Partitioning Graphs to Speed up Point-To-Point Shortest Path Computations</i> , pp. 5299-5304.	
Song, Qing	Shanghai Jiao Tong Univ.
Wang, Xiaofan	Shanghai JiaoTong Univ.
15:50-16:10	WeB06.5
<i>Novel Estimation Method of Community AADT and VMT Via Circuit Network Models and Simulation</i> , pp. 5305-5310.	
Wang, Sheng-Guo	Univ. of North Carolina at Charlotte
Bai, Libin	Univ. of North Carolina at Charlotte
Bao, Xun	Univ. of Science and Tech. of China
Liu, Yue	Univ. of North Carolina at Charlotte
Cao, Guangyi	Univ. of North Carolina at Charlotte
WeB07	Escambia
Estimation II (Regular Session)	
Chair: Iwase, Masami	Tokyo Denki Univ.
Co-Chair: Oliveira, Paulo Jorge	Inst. Superior Técnico
14:30-14:50	WeB07.1
<i>Motion-Logger: An Attitude and Motion Sensing System</i> , pp. 5311-5316.	
Marquez, Andres	Univ. of South Florida
Fitzgerald, Shirley	James A. Haley VA Hospital
Castillo, Mauricio	GE Global Res.
Moreno, Wilfrido	Univ. of South Florida
14:50-15:10	WeB07.2
<i>Subexponential Convergence for Information Aggregation on Regular Trees</i> , pp. 5317-5322.	
Kanoria, Yashodhan	Stanford Univ.
Montanari, Andrea	Stanford Univ.
15:10-15:30	WeB07.3
<i>Yo-Yo Motion Control Based on Impulsive Luenberger Observer</i> , pp. 5323-5328.	
Kojima, Shingo	Tokyo Denki Univ.
Iwase, Masami	Tokyo Denki Univ.
15:30-15:50	WeB07.4
<i>A New State Observer for Switched Linear Systems Using a Non-Smooth Optimization Approach</i> , pp. 5329-5336.	
Bako, Laurent	Ec. des Mines de Douai
Lecoeuche, Stéphane	Ec. des Mines de Douai
15:50-16:10	WeB07.5
<i>Semidefinite Relaxation of a Robust Static Attitude Determination Problem</i> , pp. 5337-5342.	
Ahmed, Shakil	Imperial Coll. London

Kerrigan, Eric C.
Jaimoukha, Imad M.

Imperial Coll. London
Imperial Coll. London

WeB08		Flagler
Iterative Learning Control I (Regular Session)		
Chair: Fraanje, Rufus Co-Chair: Saif, Mehrdad		Delft Univ. of Tech. Simon Fraser Univ.
14:30-14:50		WeB08.1
<i>Linear Computational Complexity Design of Constrained Optimal ILC</i> , pp. 5343-5348.		
Haber, Aleksandar Fraanje, Rufus Verhaegen, Michel		Delft Univ. of Tech. Delft Univ. of Tech. Delft Univ. of Tech.
14:50-15:10		WeB08.2
<i>Learning User Preferences in Mechanism Design</i> , pp. 5349-5355.		
Chorppath, Anil Kumar Alpcan, Tansu		TU Berlin Tech. Univ. of Berlin
15:10-15:30		WeB08.3
<i>A Generalized Fractional-Order Iterative Learning Control</i> , pp. 5356-5361.		
Li, Yan Chen, YangQuan Ahn, Hyo-Sung		Shandong Univ. Utah State Univ. Gwangju Inst. of Science and Tech. (GIST)
15:30-15:50		WeB08.4
<i>Robust Iterative Learning Control Synthesized with Sliding-Mode Control for Output Tracking</i> , pp. 5362-5364.		
Chen, Wen Yeh, Chih-Ping Chen, YangQuan		Wayne State Univ. Wayne State Univ. Utah State Univ.
15:50-16:10		WeB08.5
<i>Approach Control of an Electromechanical Valve Actuator Using Closed-Loop Iterative Learning Control</i> , pp. 5365-5370.		
Samadi, Mohammad Foad Saif, Mehrdad		Simon Fraser Univ. Simon Fraser Univ.
WeB09		Gilchrist
Nonlinear Systems VII (Regular Session)		
Chair: Huang, Jie Co-Chair: Vaidya, Umesh		The Chinese Univ. of Hong Kong Iowa State Univ.
14:30-14:50		WeB09.1
<i>Alternative Characterization of Ergodicity for Doubly Stochastic Chains</i> , pp. 5371-5376.		
Touri, Behrouz Nedich, Angelia		Univ. of Illinois, Urbana-Champaign Univ. of Illinois, Urbana-Champaign
14:50-15:10		WeB09.2
<i>On Event Triggered Trajectory Tracking for Control Affine Nonlinear Systems</i> , pp. 5377-5382.		
Tallapragada, Pavankumar Chopra, Nikhil		Univ. of Maryland, Coll. Park Univ. of Maryland, Coll. Park
15:10-15:30		WeB09.3
<i>A Control Problem of PM Synchronous Motor by Internal Model Design</i> , pp. 5383-5388.		
Ping, Zhaowu Huang, Jie		The Chinese Univ. of Hong Kong The Chinese Univ. of Hong Kong
15:30-15:50		WeB09.4
<i>Invariant Extended Kalman Filter Design for a Magnetometer-Plus-GPS Aided Inertial Navigation System</i> , pp. 5389-5394.		
Barczyk, Martin Lynch, Alan Francis		Univ. of Alberta Univ. of Alberta
15:50-16:10		WeB09.5

Actuator and Sensor Placement in Linear Advection PDE, pp. 5395-5400.

Vaidya, Umesh
Rajaram, Rajeev
Dasgupta, Sambarta

Iowa State Univ.
Kent State Univ.
Iowa State Univ.

WeB10	Hamilton
Nonlinear Adaptive Control (Regular Session)	
Chair: Kosmatopoulos, Elias	Democritus Univ. Thrace & ITI/CERTH
Co-Chair: Stepanyan, Vahram	NASA Ames Res. Center
14:30-14:50	WeB10.1
<i>Self-Organized Locally Linear Optimal Tracking Control for Unknown Nonlinear Systems</i> , pp. 5401-5406.	
Chen, Yiming	Univ. of California, Riverside
Dong, Wenjie	The Univ. of Texas - Pan American
Farrell, Jay	Univ. of California Riverside
14:50-15:10	WeB10.2
<i>Nonlinear Control of Large Scale Complex Systems Using Convex Optimization Tools and Self-Adaptation</i> , pp. 5407-5412.	
Kosmatopoulos, Elias	Democritus Univ. Thrace & ITI/CERTH
Aboudolas, Konstantinos	Centre for Res. and Tech. Hellas
Rovas, Dimitrios	Tech. Univ. of Crete, Greece
Papachristodoulou, Antonis	Univ. of Oxford
Ioannou, Petros A.	Univ. of Southern California
Baldi, Simone	Univ. di Firenze
15:10-15:30	WeB10.3
<i>Adaptive Backstepping Control for a Miniature Autonomous Helicopter</i> , pp. 5413-5418.	
Zhu, Bing	Beijing Univ. of Aeronautics and Astronautics
Huo, Wei	Beijing Univ. of Aero. & Astro.
15:30-15:50	WeB10.4
<i>M-MRAC for Nonlinear Systems with Bounded Disturbances</i> , pp. 5419-5424.	
Stepanyan, Vahram	NASA Ames Res. Center
Krishnakumar, Kalmanje	NASA Ames Res. Center
15:50-16:10	WeB10.5
<i>L1 Adaptive Output Feedback Controller for a Class of Nonlinear Systems</i> , pp. 5425-5430.	
Luo, Jie	Univ. of Connecticut
Cao, Chengyu	Univ. of Connecticut
WeB11	Indian River
Hybrid Systems III (Regular Session)	
Chair: Kebarighotbi, Ali	Boston Univ.
Co-Chair: Dormido, Sebastián	UNED
14:30-14:50	WeB11.1
<i>Design of an Event-Based Feedforward Strategy for SOPTD Processes</i> , pp. 5431-5436.	
Chacón Sombria, Jesús	UNED
Sánchez Moreno, José	UNED
Dormido, Sebastián	UNED
Visioli, Antonio	Univ. of Brescia
14:50-15:10	WeB11.2
<i>Timeout Control in Distributed Systems Using Perturbation Analysis</i> , pp. 5437-5442.	
Kebarighotbi, Ali	Boston Univ.
Cassandras, Christos G.	Boston Univ.
15:10-15:30	WeB11.3
<i>Further Results on a State Observer for Continuous Oscillating Systems under Intrinsic Pulsatile Feedback</i> , pp. 5443-5448.	
Churilov, Alexander	St.Petersburg State Marine Tech. Univ.
Medvedev, Alexander V.	Uppsala Univ.

Shepeljavyi, Alexander	St Petersburg State Univ.
15:30-15:50	WeB11.4
<i>Energy Efficient Microgrid Management Using Model Predictive Control</i> , pp. 5449-5454.	
Parisio, Alessandra	Univ. del Sannio
Glielmo, Luigi	Univ. of Sannio
15:50-16:10	WeB11.5
<i>State Estimation for MIMO Hybrid Dynamical Model</i> , pp. 5455-5460.	
Lala, Rajaoarisoa	IRSEEM
Jean François, Balmat	LSIS
M'sirdi, Nacer K	Lab. des Sciences de l'information et des systèmes
WeB12	Lake
Switched Systems IV (Regular Session)	
Chair: Colaneri, Patrizio	Pol. di Milano
Co-Chair: Quijano, Nicanor	Univ. de los Andes
14:30-14:50	WeB12.1
<i>Almost Sure Stability of Markov Jump Linear Systems with Dwell-Time Constrained Switching Dynamics</i> , pp. 5461-5466.	
Bolzern, Paolo	Pol. di Milano
Colaneri, Patrizio	Pol. di Milano
De Nicolao, Giuseppe	Univ. Pavia
14:50-15:10	WeB12.2
<i>Robust Fault Detection Filter Design for Uncertain Switched Systems with Adaptive Threshold Setting</i> , pp. 5467-5472.	
Abdo, Ali	Univ. of Duisburg - Essen
Ding, Steven X.	Univ. of Duisburg-Essen
Damlakhi, Waseem	Duisburg-Essen Univ.
Sajjai, Jedsada	Univ. of Duisburg - Essen
15:10-15:30	WeB12.3
<i>Discrete-Time Switched Linear System with Constraints: Characterization and Computation of Invariant Sets under Dwell-Time Consideration</i> , pp. 5473-5478.	
Dehghan, Masood	National Univ. of Singapore
Ong, Chong-Jin	National Univ. of Singapore
Chen, Peter C. Y.	National Univ. of Singapore
15:30-15:50	WeB12.4
<i>Hybrid Attitude Tracking of Output Feedback Controlled Rigid Bodies</i> , pp. 5479-5484.	
Schlanbusch, Rune	Narvik Univ. Coll.
Grøtli, Esten Ingar	Norwegian Univ. of Science & Tech.
Loria, Antonio	CNRS
Nicklasson, Per Johan	Narvik Univ. Coll.
15:50-16:10	WeB12.5
<i>Nonlinear Control of Wind Turbines: An Approach Based on Switched Linear Systems and Feedback Linearization</i> , pp. 5485-5490.	
Burkart, Ralph Mario	Automatic Control Lab. ETH Zurich
Margellos, Kostas	ETH Zurich
Lygeros, John	ETH Zurich
WeB13	Manatee
Constrained Control II (Regular Session)	
Chair: Di Cairano, Stefano	Ford Motor Company
Co-Chair: Heath, William Paul	Univ. of Manchester
14:30-14:50	WeB13.1
<i>Constrained Actuator Coordination by Virtual State Governing</i> , pp. 5491-5496.	
Di Cairano, Stefano	Ford Motor Company
Kolmanovsky, Ilya V.	The Univ. of Michigan

14:50-15:10		WeB13.2
<i>Control of Underactuated Systems with Viability Constraints</i> , pp. 5497-5502.		
Panagou, Dimitra		National Tech. Univ. of Athens
Kyriakopoulos, Kostas J.		National Tech. Univ. of Athens
15:10-15:30		WeB13.3
<i>Anti-Windup Synthesis for Optimizing Internal Model Control</i> , pp. 5503-5508.		
Adegbege, Ambrose Adebayo		The Univ. of Manchester, UK
Heath, William Paul		Univ. of Manchester
15:30-15:50		WeB13.4
<i>Region of Attraction Comparison for Gradient Projection Anti-Windup Compensated Systems</i> , pp. 5509-5515.		
Teo, Justin		DSO National Lab.
How, Jonathan P.		MIT
15:50-16:10		WeB13.5
<i>An Interpolation Approach for Robust Constrained Output Feedback</i> , pp. 5516-5521.		
Nguyen, Hoai Nam	SUPELEC Systems Sciences (E3S) - Automatic Control Department,	G
Gutman, Per-Olof		Tech.
Olaru, Sorin		Supelec
Hovd, Morten		Norwegian Univ. of Sci & Tech.
WeB14		Sarasota
Decentralized Control II (Regular Session)		
Chair: Gattami, Ather		KTH
Co-Chair: Parrilo, Pablo A.		Massachusetts Inst. of Tech.
14:30-14:50		WeB14.1
<i>An Optimal Controller Architecture for Poset-Causal Systems</i> , pp. 5522-5528.		
Shah, Parikshit		Massachusetts Inst. of Tech.
Parrilo, Pablo A.		Massachusetts Inst. of Tech.
14:50-15:10		WeB14.2
<i>Deterministic Team Problems with Signaling</i> , pp. 5529-5534.		
Gattami, Ather		KTH
15:10-15:30		WeB14.3
<i>The Role of Common "context" in Signaling</i> , pp. 5535-5540.		
Grover, Pulkit		UC Berkeley
Langbort, Cedric		Univ. of Illinois, Urbana-Champaign
15:30-15:50		WeB14.4
<i>Graph Weight Design for Laplacian Eigenvalue Constraints with Multi-Agent Systems Applications</i> , pp. 5541-5546.		
Shafi, S. Yusef		UC Berkeley
Arcak, Murat		Univ. of California, Berkeley
El Ghaoui, Laurent M.		Univ. of California at Berkeley
15:50-16:10		WeB14.5
<i>Mean Field (NCE) Stochastic Control: Populations of Major and Egoist-Altruist Agents</i> , pp. 5547-5552.		
Kizilkale, Arman C.		McGill Univ.
Caines, Peter E.		McGill Univ.
WeB15		Union
Quantum Information and Control I (Regular Session)		
Chair: Li, Jr-Shin		Washington Univ. in St. Louis
Co-Chair: Yuan, Haidong		Harvard
14:30-14:50		WeB15.1
<i>Convergence of a Pseudospectral Method for Optimal Control of Complex Dynamical Systems (I)</i> , pp. 5553-5558.		
Ruths, Justin		Singapore Univ. of Tech. & Design

Zlotnik, Anatoly Li, Jr-Shin	Washington Univ. Washington Univ. in St. Louis
14:50-15:10	WeB15.2
<i>Nuclear Magnetic Resonance: The Contrast Imaging Problem (I)</i> , pp. 5559-5564.	
Bonnard, Bernard	Inst. de Mathématiques de Bourgogne
Chyba, Monique	Univ. of Hawaii
Glaser, Steffen J.	Tech. Univ. Muenchen (TUM)
Marriott, John	Univ. of Hawaii
Sugny, Dominique	Lab. Interdisciplinaire Carnot de Bourgogne
15:10-15:30	WeB15.3
<i>Simulation of Open Quantum Dynamics in Markovian Environment (I)</i> , pp. 5565-5569.	
Yuan, Haidong	Harvard
15:30-15:50	WeB15.4
<i>Quantum Master Equation and Filter for Systems Driven by Fields in a Single Photon State</i> , pp. 5570-5576.	
Gough, John Edward	Aberystwyth Univ.
James, Matthew R.	Australian National Univ.
Nurdin, Hendra Ishwara	Australian National Univ.
15:50-16:10	WeB15.5
<i>Design and Implementation of an Atomic Force Microscope with Adaptive Sliding Mode Controller for Large Image Scanning</i> , pp. 5577-5582.	
Peng, Yuan-Zhi	National Taiwan Univ.
Wu, Jim Wei	National Taiwan Univ.
Huang, Kuan-Chia	National Taiwan Univ.
Chen, Jyun-Jhih	National Taiwan Univ.
Chen, Mei-Yung	National Taiwan Normal Univ.
Fu, Li-Chen	National Taiwan Univ.
WeB16	Palm Beach
Consensus Algorithms, Cooperative Control, and Distributed Optimization (Invited Session)	
Chair: Briñon Arranz, Lara	INRIA Rhône-Alpes
Co-Chair: Schenato, Luca	Univ. of Padova
Organizer: Briñon Arranz, Lara	INRIA Rhône-Alpes
Organizer: Schenato, Luca	Univ. of Padova
14:30-14:50	WeB16.1
<i>Collaborative Estimation of Gradient Direction by a Formation of AUVs under Communication Constraints (I)</i> , pp. 5583-5588.	
Briñon Arranz, Lara	INRIA Rhône-Alpes
Seuret, Alexandre	CNRS
Canudas de Wit, Carlos	CNRS, GIPSA-Lab.
14:50-15:10	WeB16.2
<i>Dynamic Partitioning and Coverage Control with Asynchronous One-To-Base-Station Communication (I)</i> , pp. 5589-5594.	
Durham, Joseph W.	Uni of California at Santa Barbara
Carli, Ruggero	Univ. of Padova
Frasca, Paolo	Pol. di Torino
Bullo, Francesco	Univ. California at Santa Barbara
15:10-15:30	WeB16.3
<i>Finite-Time Average Consensus Based Protocol for Distributed Estimation Over AWGN Channels (I)</i> , pp. 5595-5600.	
Kibangou, Alain	Univ. Joseph Fourier-CNRS
15:30-15:50	WeB16.4
<i>Quantized Cooperative Control Using Relative State Measurements (I)</i> , pp. 5601-5606.	
Guo, Meng	Royal Inst. of Tech. (KTH)
Dimarogonas, Dimos V.	Royal Inst. of Tech.
15:50-16:10	WeB16.5
<i>Multi-Vehicle Control and Optimization for Spatiotemporal Sampling (I)</i> , pp. 5607-5612.	

Sydney, Nitin
Paley, Derek A.

Univ. of Maryland
Univ. of Maryland

WeB17		Alachua
Delay Systems III (Regular Session)		
Chair: Leite, Valter J. S.		CEFET/MG - Campus Div.
Co-Chair: Gundes, A. N.		Univ. of California, Davis
14:30-14:50		WeB17.1
<i>Admissible Controls, Modeling, and Optimization for a New Class of Nonlinear Stochastic Delay Systems</i> , pp. 5613-5620.		
Kushner, Harold J.		Brown Univ.
14:50-15:10		WeB17.2
<i>Robust Non-Fragile H-Infinity Control with Regional Pole Location of Discrete-Time Systems with Multiple Delays in the State</i> , pp. 5621-5626.		
Leite, Valter J. S.		CEFET/MG - Campus Div.
Miranda, Marcio Fantini		Federal Univ. of Minas Gerais
Silva, Luis F. P.		PPGEL / CEFET-MG
Castelan, Eugenio B.		Univ. Federal de Santa Catarina
15:10-15:30		WeB17.3
<i>Stability Conditions for Linear Continuous Time Difference Systems with Discrete and Distributed Delay</i> , pp. 5627-5632.		
Melchor-Aguilar, Daniel Alejandro		IPICyT
15:30-15:50		WeB17.4
<i>Low Order Controller Design for Systems with Time Delays</i> , pp. 5633-5638.		
Gundes, A. N.		Univ. of California, Davis
Ozbay, Hitay		Bilkent Univ.
15:50-16:10		WeB17.5
<i>Robust L_2-L_∞ Consensus Control of the Second-Order Multi-Agent Systems with Time-Delay</i> , pp. 5639-5644.		
Cui, Yan		Beihang Univ. (BUAA)
Jia, Yingmin		Beihang Univ.
Du, Junping		Beijing Univ. of Posts and Telecommunications
Yu, Fashan		Henan Pol. Univ.
WeB18		Baker
Uncertain Systems II (Regular Session)		
Chair: Hovakimyan, Naira		Univ. of Illinois, Urbana-Champaign
Co-Chair: Zhong, Qing-Chang		Loughborough Univ.
14:30-14:50		WeB18.1
<i>Symmetric Formulation of the Kalman-Yakubovich-Popov Lemma and Exact Losslessness Condition</i> , pp. 5645-5652.		
Tanaka, Takashi		Univ. of Illinois, Urbana-Champaign
Langbort, Cedric		Univ. of Illinois, Urbana-Champaign
14:50-15:10		WeB18.2
<i>Filter Design for L1 Adaptive Output-Feedback Controller</i> , pp. 5653-5658.		
Kim, Kwang-Ki		UIUC/MIT
Kharisov, Evgeny		Univ. of Illinois at Urbana-Champaign (UIUC)
Hovakimyan, Naira		Univ. of Illinois, Urbana-Champaign
15:10-15:30		WeB18.3
<i>Robust Control of Wing Rock Motion</i> , pp. 5659-5664.		
Kuperman, Alon		Ariel Univ. Centre of Samaria
Zhong, Qing-Chang		Loughborough Univ.
Stobart, Richard		Loughborough Univ.
15:30-15:50		WeB18.4
<i>Robust Homogeneous Higher Order Sliding Mode Control</i> , pp. 5665-5670.		
Harmouche, Mohamed		UTBM
Laghrouche, Salah		UTBM

15:50-16:10 WeB18.5

Ellipsoid Bounds on State Trajectories for Discrete-Time Systems with Time-Invariant and Time-Varying Linear Fractional Uncertainties, pp. 5671-5676.Kishida, Masako
Braatz, Richard D.UIUC/MIT
Massachusetts Inst. of Tech.**WeB19**

Bay

Visual Servo Control (Regular Session)Chair: Bertuccelli, Luca F.
Co-Chair: Kim, H. JinMassachusetts Inst. of Tech.
Seoul National Univ.

14:30-14:50

WeB19.1

2D Visual Servoing for a Long Range Navigation in a Cluttered Environment, pp. 5677-5682.Durand Petiteville, Adrien
Hutchinson, Seth
Cadenat, Viviane
Courdesses, MichelLAAS/CNRS
Univ. of Illinois
Laas/cnrs
Laas/cnrs

14:50-15:10

WeB19.2

Mutation Analysis Models for Visual Servoing in Nanomanipulations, pp. 5683-5688.Zhao, Jianguo
Song, Bo
Xi, Ning
Lai, King Wai ChiuMichigan State Univ.
Michigan State Univ.
Michigan State Univ.
Michigan State Univ.

15:10-15:30

WeB19.3

Obstacle Avoidance Using Image-Based Visual Servoing Integrated with Nonlinear Model Predictive Control, pp. 5689-5694.Lee, Daewon
Lim, Hyon
Kim, H. JinSeoul National Univ.
Seoul National Univ.
Seoul National Univ.

15:30-15:50

WeB19.4

Visual Servoing for the Robotenis System: A Strategy for a 3 DOF Parallel Robot to Hit a Ping-Pong Ball, pp. 5695-5701.Traslosheros-Michel, Alberto
Sebastián, José María
Angel, Luis
Flavio, Roberti
Carelli, RicardoUniv. autonoma de Queretaro
Univ. Pol. de Madrid
Univ. Pol. de Madrid
Univ. Nacional de San Juan
Univ. Nacional De San Juan

15:50-16:10

WeB19.5

Scenario-Based Robust Scheduling for Collaborative Human-UAV Visual Search Tasks, pp. 5702-5707.Bertuccelli, Luca F.
Cummings, Mary (Missy)Massachusetts Inst. of Tech.
MIT**WeB20**

Broward

Stochastic Optimal Control I (Regular Session)Chair: Befekadu, Getachew
Co-Chair: Caines, Peter E.Univ. of Notre Dame
McGill Univ.

14:30-14:50

WeB20.1

A Solution to the Initial Mean Consensus Problem Via a Continuum Based Mean Field Control Approach, pp. 5708-5713.Nourian, Mojtaba
Caines, Peter E.
Malhame, Roland P.McGill Univ.
McGill Univ.
Ec. Pol. de Montreal

14:50-15:10

WeB20.2

Risk-Sensitive Control under a Markov Modulated Denial-Of-Service Attack Model, pp. 5714-5719.Befekadu, Getachew
Gupta, VijayUniv. of Notre Dame
Univ. of Notre Dame

Antsaklis, Panos J.	Univ. of Notre Dame
15:10-15:30	WeB20.3
<i>On Optimal Policies for Control and Estimation Over a Gaussian Relay Channel</i> , pp. 5720-5725.	
Zaidi, Syed Ali Abbas	Royal Inst. of Tech. (KTH), Sweden
Yuksel, Serdar	Queen's Univ.
Oechtering, Tobias J.	Royal Inst. of Tech. (KTH)
Skoglund, Mikael	Royal Inst. of Tech.
15:30-15:50	WeB20.4
<i>Optimal Decentralized Control of Coupled Subsystems with Control Sharing</i> , pp. 5726-5731.	
Mahajan, Aditya	McGill Univ.
15:50-16:10	WeB20.5
<i>Witsenhausen's Counterexample: A View from Optimal Transport Theory</i> , pp. 5732-5737.	
Yihong, Wu	Princeton Univ.
Verdu, Sergio	Princeton Univ.
WeB21	Brevard
Agents and Autonomous Systems VIII (Regular Session)	
Chair: Cortes, Jorge	Univ. of California, San Diego
Co-Chair: Martinez, Sonia	Univ. of California at San Diego
14:30-14:50	WeB21.1
<i>Multi-Agent Robust Consensus-Part II: Application to Distributed Event-Triggered Coordination</i> , pp. 5738-5743.	
Shi, Guodong	Royal Inst. of Tech.
Johansson, Karl H.	Royal Inst. of Tech.
14:50-15:10	WeB21.2
<i>Multi-Agent Robust Consensus-Part I: Convergence Analysis</i> , pp. 5744-5749.	
Shi, Guodong	Royal Inst. of Tech.
Johansson, Karl H.	Royal Inst. of Tech.
15:10-15:30	WeB21.3
<i>On Global Feedback Stabilization of Decentralized Formation Control</i> , pp. 5750-5755.	
Belabbas, Mohamed Ali	Harvard
15:30-15:50	WeB21.4
<i>Freshwater-Saltwater Boundary Detection Using Mobile Sensors - Part I: Drifter Deployment</i> , pp. 5756-5761.	
Ru, Yu	Univ. of California, San Diego
Martinez, Sonia	Univ. of California at San Diego
15:50-16:10	WeB21.5
<i>Stealthy Strategies for Deception in Hypergames with Asymmetric Information</i> , pp. 5762-5767.	
Gharesifard, Bahman	Univ. of California San Diego
Cortes, Jorge	Univ. of California, San Diego
WeB22	Bradford
Nonlinear System Identification (Regular Session)	
Chair: Schoukens, Johan	Vrije Univ. Brussels
Co-Chair: Mitsis, Georgios D.	Univ. of Cyprus
14:30-14:50	WeB22.1
<i>Nonstationary Analysis of Cerebral Hemodynamics Using Recursively Estimated Multiple-Input Nonlinear Models</i> , pp. 5768-5773.	
Markou, Marios M.	Univ. of Cyprus
Poulin, Marc J.	Univ. of Calgary
Mitsis, Georgios D.	Univ. of Cyprus
14:50-15:10	WeB22.2
<i>Output Error Identification of Closed-Loop Hammerstein Systems</i> , pp. 5774-5779.	
Han, Younghee	Univ. of California, San Diego

de Callafon, Raymond A.	Univ. of California, San Diego
15:10-15:30	WeB22.3
<i>Identifying a Wiener System Using a Variant of the Wiener G-Functionals</i> , pp. 5780-5785.	
Tiels, Koen	Vrije Univ. Brussel
Schoukens, Johan	Vrije Univ. Brussels
15:30-15:50	WeB22.4
<i>High-Order Sliding-Mode Control of Blood Glucose Concentration Via Practical Relative Degree Identification (I)</i> , pp. 5786-5791.	
Gallardo-Hernández, Ana Gabriela	Univ. Nacional Autónoma de México
Fridman, Leonid M.	National Autonomous Univ. of Mexico
Levant, Arie	Tel - Aviv Univ.
Shtessel, Yuri B.	Univ. of Alabama at Huntsville
Leder, Ronald	Univ. Nacional Autónoma de México
Revilla-Monsalve, Cristina	Centro Médico Nacional Siglo XXI
Islas-Andrade, Sergio	Centro Medico Nacional Siglo XXI
15:50-16:10	WeB22.5
<i>Identification of Nonlinear Systems with Stable Oscillations</i> , pp. 5792-5797.	
Manchester, Ian R.	Massachusetts Inst. of Tech.
Tobenkin, Mark M.	Massachusetts Inst. of Tech.
Wang, Jennifer	Massachusetts Inst. of Tech.
WeC01	Orange
Energy Systems (Regular Session)	
Chair: Yu, Hai	Res. and Advanced Engineering, Ford Motor Company
Co-Chair: Hayakawa, Tomohisa	Tokyo Inst. of Tech.
16:30-16:50	WeC01.1
<i>Optimal Decentralized Protocol for Electric Vehicle Charging</i> , pp. 5798-5804.	
Gan, Lingwen	California Inst. of Tech.
Topcu, Ufuk	California Inst. of Tech.
Low, Steven	California Inst. of Tech.
16:50-17:10	WeC01.2
<i>Trip-Oriented Energy Management Control Strategy for Plug-In Hybrid Electric Vehicles</i> , pp. 5805-5812.	
Yu, Hai	Res. and Advanced Engineering, Ford Motor Company
Kuang, Ming L.	Ford Motor Co.
McGee, Ryan	Ford Motor Company
17:10-17:30	WeC01.3
<i>Optimal Sizing of Energy Storage for Efficient Integration of Renewable Energy</i> , pp. 5813-5819.	
Harsha, Pavithra	IBM
Dahleh, Munther A.	Massachusetts Inst. of Tech.
17:30-17:50	WeC01.4
<i>Distributed Cyber Attack Detection for Power Network Systems</i> , pp. 5820-5824.	
Hashimoto, Hideaki	Tokyo Inst. of Tech.
Hayakawa, Tomohisa	Tokyo Inst. of Tech.
17:50-18:10	WeC01.5
<i>Constraint Handling within a Multi-Blade Coordinate Framework of a Wind Turbine</i> , pp. 5825-5830.	
Henriksen, Lars Christian	Tech. Univ. of Denmark
Poulsen, Niels Kjølstad	Tech. Univ. of Denmark
Niemann, Henrik	Tech. Univ. of Denmark
WeC02	Dixie
Biomolecular Systems and Cellular Dynamics (Regular Session)	
Chair: Andersson, Sean	Boston Univ.
Co-Chair: Del Vecchio, Domitilla	Massachusetts Institute of Tech.

16:30-16:50	WeC02.1
<i>A Contraction Theory Approach to Singularly Perturbed Systems with Application to Retroactivity Attenuation</i> , pp. 5831-5836.	
Del Vecchio, Domitilla	Massachusetts Institute of Tech.
Slotine, Jean-Jacques E.	Massachusetts Inst. of Tech.
16:50-17:10	WeC02.2
<i>Recursive Bayesian Estimation of Stochastic Rate Constants from Heterogeneous Cell Populations</i> , pp. 5837-5843.	
Zechner, Christoph	ETH Zuerich
Pelet, Serge	ETH Zuerich
Peter, Matthias	ETH Zuerich
Koepl, Heinz	ETH Zuerich
17:10-17:30	WeC02.3
<i>Kalman Filter Tracking of Intracellular Neuronal Voltage and Current</i> , pp. 5844-5849.	
Wei, Yina	Penn State Univ.
Ullah, Ghanim	Los Alamos National Lab.
Parekh, Ruchi	George Mason Univ.
Ziburkus, Jokubas	Univ. of Houston
Schiff, Steven	Penn State Univ.
17:30-17:50	WeC02.4
<i>Kernel Mechanism of the Cyanobacterial Circadian Clock Is a Relaxation Oscillator</i> , pp. 5850-5855.	
Ma, Lan	The Univ. of Texas at Dallas
Ranganathan, Rama	The Univ. of Texas Southwestern Medical Center
17:50-18:10	WeC02.5
<i>3-D Tracking of Fluorescent Nanoparticles in a Confocal Microscope</i> , pp. 5856-5861.	
Shen, Zhaolong	Univ. of Maryland at Coll. Park
Andersson, Sean	Boston Univ.
WeC03	Columbia
Modeling and Manufacturing (Regular Session)	
Chair: Lefebvre, Dimitri	Univ. Le Havre
Co-Chair: Giglio, Davide	Univ. of Genova
16:30-16:50	WeC03.1
<i>Finite Time Control Design for Contpnns According to Piecewise Constant Control Actions</i> , pp. 5862-5867.	
Lefebvre, Dimitri	Univ. Le Havre
16:50-17:10	WeC03.2
<i>Soft Sensor Development Using Non-Gaussian Just-In-Time Modeling</i> , pp. 5868-5873.	
Zeng, Jiu-sun	Zhejiang Univ.
Xie, Lei	National Key Lab. of Industrial Control Tech.
Gao, Chuanhou	Zhejiang Univ.
Sha, Jingjing	Inst. of cyber systems and control, zhejiang Univ.
17:10-17:30	WeC03.3
<i>Asynchronous Regulation of Service Speed in Inventory-Production Systems with Time-Varying Positive Demand</i> , pp. 5874-5880.	
Giglio, Davide	Univ. of Genova
Sacone, Simona	Univ. of Genova
Siri, Silvia	Univ. of Genova
17:30-17:50	WeC03.4
<i>Colored Hybrid Petri-Nets for Modeling Material Handling Systems</i> , pp. 5881-5886.	
Basile, Francesco	Univ. Degli Studi Di Salerno
Chiacchio, Pasquale	Univ. di Salerno
Coppola, Jolanda	Univ. di Salerno
17:50-18:10	WeC03.5
<i>Optimality of a Hedging-Point Control Policy for a Failure-Prone Manufacturing System under a Probabilistic Cost Criterion</i> , pp. 5887-5892.	

WeC04		Nassau
Optimization Algorithms III (Regular Session)		
Chair: Innocenti, Giacomo		Univ. di Siena
Co-Chair: Pattipati, Krishna R.		Univ. of Connecticut
16:30-16:50		WeC04.1
<i>Distributed Algorithms for Biobjective Assignment Problems</i> , pp. 5893-5898.		
Li, Chendong		Univ. of Connecticut
Park, Chulwoo		Univ. of Connecticut
Pattipati, Krishna R.		Univ. of Connecticut
Kleinman, David L.		Naval Postgraduate School
16:50-17:10		WeC04.2
<i>Appliance Operation Scheduling for Electricity Consumption Optimization</i> , pp. 5899-5904.		
Agnētis, Alessandro		Univ. degli Studi di Siena
Dellino, Gabriella		Univ. DI SIENA
Detti, Paolo		Univ. of siena
Innocenti, Giacomo		Univ. di Siena
de Pascale, Gianluca		Univ. di Siena
Vicino, Antonio		Univ. di Siena
17:10-17:30		WeC04.3
<i>Real-Time Sequential Convex Programming for Nonlinear Model Predictive Control and Application to a Hydro-Power Plant</i> , pp. 5905-5910.		
Tran, Dinh Quoc		Katholieke Univ. Leuven, Belgium
Savorgnan, Carlo		Katholieke Univ. Leuven
Diehl, Moritz		Katholieke Univ. Leuven
17:30-17:50		WeC04.4
<i>Locally Constrained Decision Making Via Two-Stage Distributed Simplex</i> , pp. 5911-5916.		
Bürger, Mathias		Univ. of Stuttgart
Notarstefano, Giuseppe		Univ. of Lecce
Allgower, Frank		Univ. of Stuttgart
17:50-18:10		WeC04.5
<i>Newton-Raphson Consensus for Distributed Convex Optimization</i> , pp. 5917-5922.		
Zanella, Filippo		Univ. of Padova
Varagnolo, Damiano		Univ. of Padova
Cenedese, Angelo		Univ. of Padova
Pillonetto, Gianluigi		Univ. of Padova
Schenato, Luca		Univ. of Padova
WeC05		Taylor
Network Analysis and Control I (Regular Session)		
Chair: Johansson, Mikael		Royal Inst. of Tech.
Co-Chair: Parlangei, Gianfranco		Univ. degli studi di Lecce
16:30-16:50		WeC05.1
<i>Observability and Reachability of Grid Graphs Via Reduction and Symmetries</i> , pp. 5923-5928.		
Notarstefano, Giuseppe		Univ. of Lecce
Parlangei, Gianfranco		Univ. degli studi di Lecce
16:50-17:10		WeC05.2
<i>A Markovian Jump Guaranteed Cost Congestion Control Strategy for Mobile Networks Subject to Differentiated Services Traffic</i> , pp. 5929-5936.		
Chen, Ruiru		concordia Univ.
Khorasani, Khashayar		Concordia Univ.

17:10-17:30	WeC05.3
<i>A Distributed Guaranteed Cost Congestion Control Strategy for Mobile Networks with Differentiated Services Traffic</i> , pp. 5937-5944.	
Chen, Ruiru	concordia Univ.
Khorasani, Khashayar	Concordia Univ.
17:30-17:50	WeC05.4
<i>Performance Bounds for CSMA-Based Medium Access Control</i> , pp. 5945-5950.	
Freris, Nikolaos	IBM Res. - Zurich
17:50-18:10	WeC05.5
<i>Modular Co-Design of Controllers and Transmission Schedules in WirelessHART</i> , pp. 5951-5958.	
Demirel, Burak	KTH Royal Inst. of Tech.
Zou, Zhenhua	Royal Inst. of Tech. Sweden
Soldati, Pablo	KTH
Johansson, Mikael	Royal Inst. of Tech.
WeC06	Jackson
Traffic Control (Regular Session)	
Chair: Castanon, David A.	Boston Univ.
Co-Chair: Canudas de Wit, Carlos	CNRS, GIPSA-Lab.
16:30-16:50	WeC06.1
<i>Best-Effort Highway Traffic Congestion Control Via Variable Speed Limits</i> , pp. 5959-5964.	
Canudas de Wit, Carlos	CNRS, GIPSA-Lab.
16:50-17:10	WeC06.2
<i>Feasible Cooperation Based Model Predictive Control for Freeway Traffic Systems</i> , pp. 5965-5970.	
Domínguez Frejo, José Ramón	Univ. de Sevilla
Camacho, Eduardo F.	Univ. of Sevilla
17:10-17:30	WeC06.3
<i>Position Stabilization of a Stewart Platform: High-Order Sliding Mode Observers Based Approach</i> , pp. 5971-5976.	
Fraguela Cuesta, Liset	Univ. Nacional Autónoma de México
Fridman, Leonid M.	National Autonomous Univ. of Mexico
Alexandrov, Vladimir V.	Benémerita Univ. Autónoma de Puebla
17:30-17:50	WeC06.4
<i>Pull Protocols for Communication Constrained Advanced Traveler Information Systems</i> , pp. 5977-5982.	
Castanon, David A.	Boston Univ.
Kumar, Rohit	Georgia Inst. of Tech.
17:50-18:10	WeC06.5
<i>Learning the Dependency Structure of Highway Networks for Traffic Forecast</i> , pp. 5983-5988.	
Samaranayake, Samitha	Univ. of California, Berkeley
Blandin, Sebastien	Univ. of California at Berkeley
Bayen, Alexandre M.	Univ. of California at Berkeley
WeC07	Escambia
Estimation III (Regular Session)	
Chair: Tang, Ao	Cornell Univ.
Co-Chair: de Callafon, Raymond A.	Univ. of California, San Diego
16:30-16:50	WeC07.1
<i>On State Estimation with Bad Data Detection</i> , pp. 5989-5994.	
Xu, Weiyu	Cornell Univ.
Wang, Meng	Cornell Univ.
Tang, Kevin	Cornell Univ.
16:50-17:10	WeC07.2
<i>Extracting Dynamics from Blur</i> , pp. 5995-6000.	

Mishra, Sandipan	Rensselaer Pol. Inst.
Wen, John T.	Rensselaer Pol. Inst.
17:10-17:30	WeC07.3
<i>Aspects of MMOSPA Estimation</i> , pp. 6001-6006.	
Crouse, David	Univ. of Connecticut
Willett, Peter K.	Univ. of Connecticut
Bar-Shalom, Yaakov	Univ. of Connecticut
Svensson, Lennart	Chalmers Univ.
17:30-17:50	WeC07.4
<i>Optimal Attitude Estimation Using Set-Valued Observers</i> , pp. 6007-6012.	
Brás, Sérgio	Inst. Superior Técnico
Rosa, Paulo Andre Nobre	Inst. Superior Tecnico, Lisbon
Silvestre, Carlos	Inst. Superior Tecnico
Oliveira, Paulo Jorge	Inst. Superior Técnico
17:50-18:10	WeC07.5
<i>Nonlinear Simultaneous Input and State Estimation with Application to Flow Field Estimation</i> , pp. 6013-6018.	
Fang, Huazhen	Univ. of California, San Diego
de Callafon, Raymond A.	Univ. of California, San Diego
WeC08	Flagler
Iterative Learning Control II (Regular Session)	
Chair: Rogers, Eric	Univ. of Southampton
Co-Chair: Ramos, Germán Andrés	Univ. Nacional de Colombia
16:30-16:50	WeC08.1
<i>Reinforcement Learning with Reference Tracking in Continuous State Spaces</i> , pp. 6019-6024.	
Hall, Joseph Alexander	Cambridge Univ.
Rasmussen, Carl Edward	Univ. of Cambridge
Maciejowski, Jan M.	Univ. of Cambridge
16:50-17:10	WeC08.2
<i>Iterative Learning Control for Optimal Multiple-Point Tracking</i> , pp. 6025-6030.	
Son, Tong Duy	Gwangju Inst. of Science and Tech. (GIST)
Nguyen, Dinh Hoa	Chulalongkorn Univ.
Ahn, Hyo-Sung	Gwangju Inst. of Science and Tech. (GIST)
17:10-17:30	WeC08.3
<i>Model-Free Iterative Learning of Time-Optimal Point-To-Point Motions for LTI Systems</i> , pp. 6031-6036.	
Janssens, Pieter	Katholieke Univ. Leuven
Pipeleers, Goele	Katholieke Univ. Leuven
Swevers, Jan	K. U. Leuven
17:30-17:50	WeC08.4
<i>Finite Frequency Range Control Law Synthesis for Differential Linear Repetitive Processes</i> , pp. 6037-6042.	
Paszke, Wojciech	Univ. of Zielona Gora
Rogers, Eric	Univ. of Southampton
Galkowski, Krzysztof	Univ. of Zielona Gora
17:50-18:10	WeC08.5
<i>An Optimal Anti-Windup Strategy for Repetitive Control Systems</i> , pp. 6043-6048.	
Ramos, Germán Andrés	Univ. Nacional de Colombia
Costa-Castelló, Ramon	Univ. Pol. de Catalunya
WeC09	Gilchrist
Stability of Nonlinear Systems II (Regular Session)	
Chair: Angeli, David	Imperial Coll.
Co-Chair: Ito, Hiroshi	Kyushu Inst. of Tech.

16:30-16:50	WeC09.1
<i>A Small-Gain Result for Orthant-Monotone Systems in Feedback: The Non Sign-Definite Case</i> , pp. 6049-6053.	
Angeli, David	Imperial Coll.
Sontag, Eduardo D.	Rutgers Univ.
16:50-17:10	WeC09.2
<i>Factorization of Multipliers in Passivity and IQC Analysis</i> , pp. 6054-6059.	
Carrasco, Joaquin	Univ. of Manchester
Heath, William Paul	Univ. of Manchester
Lanzon, Alexander	Univ. of Manchester
17:10-17:30	WeC09.3
<i>A State-Space View on Locally-Stable, Globally-Unstable Nonlinear Models Driven by Gaussian Burst Inputs</i> , pp. 6060-6065.	
Vanbeylen, Laurent	Vrije Univ. Brussels
Van Mulders, Anne	Vrije Univ. Brussel
Schoukens, Johan	Vrije Univ. Brussels
17:30-17:50	WeC09.4
<i>A Sensitivity Trade-Off Arising in Small-Gain Design for Nonlinear Systems: An Iiss Framework</i> , pp. 6066-6071.	
Chaillet, Antoine	Univ. Paris Sud 11
Ito, Hiroshi	Kyushu Inst. of Tech.
17:50-18:10	WeC09.5
<i>Connecting Several Stability Criteria for Iiss Networks and Their Application to a Network Computing Model</i> , pp. 6072-6078.	
Ito, Hiroshi	Kyushu Inst. of Tech.
WeC10	Hamilton
Adaptive Control and Estimation (Regular Session)	
Chair: Safonov, Michael G.	Univ. of Southern California
Co-Chair: Carnevale, Daniele	Univ. di Roma
16:30-16:50	WeC10.1
<i>A Globally Convergent Wind Speed Estimator for Windmill Systems</i> , pp. 6079-6084.	
Ortega, Romeo	LSS-SUPELEC
Mancilla-David, Fernando	Univ. of Colorado Denver
Jaramillo, Fernando	Lab. des Signaux et Systemes, Supelec.
16:50-17:10	WeC10.2
<i>Robustness of Retrospective Cost Adaptive Control to Markov-Parameter Uncertainty</i> , pp. 6085-6090.	
Sumer, Dogan	Univ. of Michigan - Ann Arbor
D'Amato, Anthony	Univ. of Michigan
Morozov, Alexey	Univ. of Michigan
Hoagg, Jesse B.	Univ. of Kentucky
Bernstein, Dennis S.	Univ. of Michigan
17:10-17:30	WeC10.3
<i>On the Tuning of a Hybrid Observer for Multiple Frequency Estimation</i> , pp. 6091-6096.	
Carnevale, Daniele	Univ. di Roma
Galeani, Sergio	Univ. Di Roma Tor Vergata
17:30-17:50	WeC10.4
<i>A Fading Memory Data-Driven Algorithm for Controller Switching (I)</i> , pp. 6097-6103.	
Huiyu, Jin	Univ. of Science and Tech. of China
Chang, Michael	Univ. of Southern California
Safonov, Michael G.	Univ. of Southern California
17:50-18:10	WeC10.5
<i>Robust Parametric Identification of Sinusoidal Signals: An Input-To-State Stability Approach</i> , pp. 6104-6109.	
Pin, Gilberto	Danieli Automation S.p.A. (Italy)
Parisini, Thomas	Imperial Coll. & Univ. of Trieste
Bodson, Marc	Univ. of Utah

WeC11	Indian River
Hybrid Systems IV (Regular Session)	
Chair: Prieur, Christophe	Gipsa-Lab.
Co-Chair: Summers, Sean	ETH Zurich
16:30-16:50	WeC11.1
<i>The Continual Reachability Set and Its Computation Using Maximal Reachability Techniques</i> , pp. 6110-6115.	
Kaynama, Shahab	Univ. of British Columbia
Oishi, Meeko	Univ. of British Columbia
Mitchell, Ian M.	Univ. of British Columbia
Dumont, Guy A.	Univ. of British Columbia
16:50-17:10	WeC11.2
<i>Dimension Reduction Near Periodic Orbits of Hybrid Systems</i> , pp. 6116-6121.	
Burden, Samuel	Univ. of California at Berkeley
Revzen, Shai	Univ. of Pennsylvania
Sastry, Shankar	Univ. of California at Berkeley
17:10-17:30	WeC11.3
<i>Discrete Time Stochastic Hybrid Dynamical Games: Verification & Controller Synthesis</i> , pp. 6122-6127.	
Kamgarpour, Maryam	Univ. of California, Berkeley
Ding, Jerry	Univ. of California - Berkeley
Summers, Sean	ETH Zurich
Abate, Alessandro	TU Delft
Lygeros, John	ETH Zurich
Tomlin, Claire J.	UC Berkeley
17:30-17:50	WeC11.4
<i>Event-Based Sampling Algorithms Based on a Lyapunov Function</i> , pp. 6128-6133.	
Seuret, Alexandre	CNRS
Prieur, Christophe	CNRS
17:50-18:10	WeC11.5
<i>Supervisory Control of Differentially Flat Systems Based on Abstraction</i> , pp. 6134-6139.	
Colombo, Alessandro	MIT
Del Vecchio, Domitilla	Massachusetts Institute of Tech.
WeC12	Lake
Switched Systems V (Regular Session)	
Chair: Netic, Dragan	Univ. of Melbourne
Co-Chair: Wisniewski, Rafal	Aalborg Univ.
16:30-16:50	WeC12.1
<i>Convenient Model for Systems with Hystereses-Control</i> , pp. 6140-6145.	
Wisniewski, Rafal	Aalborg Univ.
Leth, John	Aalborg Univ.
16:50-17:10	WeC12.2
<i>New Stability Criteria for Switched Time-Varying Systems: Output-Persistently Exciting Conditions</i> , pp. 6146-6152.	
Lee, Ti-Chung	Univ. of Science and Tech.
Tan, Ying	The Univ. of Melbourne
Netic, Dragan	Univ. of Melbourne
17:10-17:30	WeC12.3
<i>Multiple-Model Adaptive Switching Control for Uncertain Multivariable Systems</i> , pp. 6153-6158.	
Baldi, Simone	Univ. di Firenze
Battistelli, Giorgio	Univ. of Florence
Mari, Daniele	Univ. of Florence
Mosca, Edoardo	Univ. of Florence
Tesi, Pietro	Univ. of Genoa

17:30-17:50	WeC12.4
<i>Stability Analysis and Hinf Controller Design of a Class of Switched Discrete-Time Fuzzy Systems</i> , pp. 6159-6164.	
Chen, Yong	Harbin Inst. of Tech.
Zhang, Lixian	Harbin Inst. of Tech.
Karimi, Hamid Reza	Univ. of Agder
Zhao, Xudong	Coll. of Information and Control Engineering, China Univ.

17:50-18:10	WeC12.5
<i>Collision Avoidance Maneuver Design Based on Equidistance Interpolation</i> , pp. 6165-6170.	
Qi, Yongqiang	Beihang Univ.
Jia, Yingmin	Beihang Univ.
Du, Junping	Beijing Univ. of Posts and Telecommunications
Yu, Fashan	Henan Pol. Univ.

WeC13	Manatee
Aerospace I (Regular Session)	
Chair: Reyhanoglu, Mahmut	Embry Riddle Aeronautical Univ.
Co-Chair: Morin, Pascal	INRIA

16:30-16:50	WeC13.1
<i>Flatness-Based Control of a Quadrotor Helicopter Via Feedforward Linearization</i> , pp. 6171-6176.	
Formentin, Simone	Pol. di Milano
Lovera, Marco	Pol. di Milano

16:50-17:10	WeC13.2
<i>Nonlinear Control of PVTOL Vehicles Subjected to Drag and Lift</i> , pp. 6177-6183.	
Pucci, Daniele	INRIA
Hamel, Tarek	Univ. de Nice Sophia Antipolis
Morin, Pascal	INRIA
Samson, Claude	INRIA Sophia-Antipolis

17:10-17:30	WeC13.3
<i>Nonlinear Tracking Control of Rigid Spacecraft under Disturbance Using PD and PID Type \mathcal{H}_∞ State Feedback</i> , pp. 6184-6191.	
Ikeda, Yuichi	Shinshu Univ.
Kida, Takashi	Univ. of Electro-Communications
Nagashio, Tomoyuki	Osaka Prefecture Univ.

17:30-17:50	WeC13.4
<i>Nonlinear Control of a Spacecraft with Multiple Fuel Slosh Modes</i> , pp. 6192-6197.	
Reyhanoglu, Mahmut	Embry Riddle Aeronautical Univ.
Rubio Hervas, Jaime	Embry-Riddle Aeronautical Univ.

17:50-18:10	WeC13.5
<i>Finite-Gain L_∞ Stabilization of Satellite Formation Flying with Input Saturation</i> , pp. 6198-6203.	
Lim, Young-Hun	GIST
Ahn, Hyo-Sung	Gwangju Inst. of Science and Tech. (GIST)
Kim, Byeong-Yeon	Gwangju Inst. of Science and Tech. (GIST)

WeC14	Sarasota
Decentralized and Optimal Control (Regular Session)	
Chair: Miller, Daniel	Univ. of Waterloo
Co-Chair: Michelin, Andre	UCLA

16:30-16:50	WeC14.1
<i>Near Optimal LQR Control in the Decentralized Setting</i> , pp. 6204-6209.	
Miller, Daniel	Univ. of Waterloo
Davison, Edward J.	Univ. of Toronto

16:50-17:10	WeC14.2
<i>Empirical Approach to Robust Gramian-Based Analysis of Process Interactions in Control Structure Selection</i> , pp. 6210-6215.	

Castaño Arranz, Miguel	Luleå Univ. of Tech.
Birk, Wolfgang	Luleå Univ. of Tech.
Halvarsson, Björn	Uppsala Univ.
17:10-17:30	WeC14.3
<i>Relative Value of Measurements in a Discrete Decentralized LQG Framework</i> , pp. 6216-6223.	
Michelin, Andre	UCLA
Speyer, Jason L.	Univ. of California at Los Angeles
17:30-17:50	WeC14.4
<i>String Instability in Coupled Harmonic Oscillator Systems</i> , pp. 6224-6229.	
Yu, Bo	Univ. of Michigan, Ann Arbor
Freudenberg, James S.	Univ. of Michigan
Gillespie, Brent	Univ. of Michigan
Middleton, Richard H.	National Univ. of Ireland Maynooth
17:50-18:10	WeC14.5
<i>Poisson Reduction of Optimal Control Systems</i> , pp. 6230-6235.	
Ohsawa, Tomoki	Univ. of California, San Diego

WeC15	Union
Quantum Information and Control II (Regular Session)	
Chair: Hara, Shinji	The Univ. of Tokyo
Co-Chair: Rouchon, Pierre	Mines ParisTech
16:30-16:50	WeC15.1
<i>Sampled-Data Control of Two-Level Quantum Systems Based on Sliding Mode Design</i> , pp. 6236-6241.	
Dong, Daoyi	Univ. of New South Wales
Petersen, Ian	Univ. of New South Wales at the Australian Defence Force Ac
16:50-17:10	WeC15.2
<i>On Stability of Continuous-Time Quantum-Filters</i> , pp. 6242-6247.	
Amini, Hadis	Mines-ParisTech
Mirrahimi, Mazyar	INRIA Paris-Rocquencourt
Rouchon, Pierre	Mines ParisTech
17:10-17:30	WeC15.3
<i>Approximate Stabilization of an Infinite Dimensional Quantum Stochastic System</i> , pp. 6248-6253.	
Somaraju, Ram Abhinav	INRIA Rocquencourt
Mirrahimi, Mazyar	INRIA Paris-Rocquencourt
Rouchon, Pierre	Mines ParisTech
17:30-17:50	WeC15.4
<i>Identification and Control of a Two-Level Open Quantum System</i> , pp. 6254-6259.	
Xue, Zhengui	National Univ. of Singapore
Lin, Hai	National Univ. of Singapore
Lee, Tong Heng	National Univ. of Singapore
17:50-18:10	WeC15.5
<i>On Quantum-Classical Equivalence for Linear Systems Control Problems and Its Application to Quantum Entanglement Assignment</i> , pp. 6260-6265.	
Ohki, Kentaro	The Univ. of Tokyo
Hara, Shinji	The Univ. of Tokyo
Yamamoto, Naoki	Keio Univ.

WeC16	Palm Beach
Control for Information Acquisition and Optimal Data Fusion (Invited Session)	
Chair: Zhang, Fumin	Georgia Inst. of Tech.
Co-Chair: Savla, Ketan	Massachusetts Inst. of Tech.
Organizer: Baronov, Dimitar	Boston Univ.
Organizer: Baillieul, John	Boston Univ.

16:30-16:50	WeC16.1
<i>Intruder Capturing Game on a Topological Map Assisted by Information Networks (I)</i> , pp. 6266-6271.	
Kim, Jonghoek	Georgia Inst. of Tech.
Maxon, Sean	georgia Inst. of Tech.
Egerstedt, Magnus	Georgia Inst. of Tech.
Zhang, Fumin	Georgia Inst. of Tech.
16:50-17:10	WeC16.2
<i>Sensor Control for Search and Identification of Markov Objects (I)</i> , pp. 6272-6277.	
Castanon, David A.	Boston Univ.
Hitchings, Darin	Boston Univ.
17:10-17:30	WeC16.3
<i>Probabilistic Bounds for Complete Scanning in Non-Raster Atomic Force Microscopy (I)</i> , pp. 6278-6283.	
Chang, Peter	Boston Univ.
Andersson, Sean	Boston Univ.
17:30-17:50	WeC16.4
<i>Adaptive Sensor Selection in Sequential Hypothesis Testing (I)</i> , pp. 6284-6289.	
Srivastava, Vaibhav	Univ. of California Santa Barbara
Plarre, Kurt	Univ. of California, Santa Barbara
Bullo, Francesco	Univ. California at Santa Barbara
17:50-18:10	WeC16.5
<i>Robust Distributed Routing in Dynamical Flow Networks (I)</i> , pp. 6290-6295.	
Como, Giacomo	Massachusetts Inst. of Tech.
Savla, Ketan	Massachusetts Inst. of Tech.
Acemoglu, Daron	MIT
Dahleh, Munther A.	Massachusetts Inst. of Tech.
Frazzoli, Emilio	Massachusetts Inst. of Tech.
WeC17	Alachua
Delay Systems IV (Regular Session)	
Chair: Barbot, Jean Pierre	ENSEA
Co-Chair: Verriest, Erik I.	Georgia Inst. of Tech.
16:30-16:50	WeC17.1
<i>On Feedback Stabilization of Stochastic Nonlinear Systems with Discrete and Distributed Delays</i> , pp. 6296-6301.	
Aggoune, Woihida	ENSEA
16:50-17:10	WeC17.2
<i>Delay Identification for Nonlinear Time-Delay Systems</i> , pp. 6302-6307.	
Zheng, Gang	INRIA
Barbot, Jean Pierre	ENSEA
Boutat, Driss	Ensi de Bourges
17:10-17:30	WeC17.3
<i>An Efficient Solution of the Perspective Problem Via a Suitable Delay Riccati Equation</i> , pp. 6308-6312.	
Conte, Francesco	Univ. of L'Aquila
Cusimano, Valerio	Univ. Campus Bio-Medico di Roma
Germani, Alfredo	Univ. dell'Aquila
17:30-17:50	WeC17.4
<i>A Systems Theoretic Analysis of Fast Varying and State Dependent Delays</i> , pp. 6313-6318.	
Michiels, Wim	K.U. Leuven
Verriest, Erik I.	Georgia Inst. of Tech.
17:50-18:10	WeC17.5
<i>Robust Stability Analysis in the \ast-Norm and Lyapunov-Razumikhin Functions for the Stability Analysis of Time-Delay Systems</i> , pp. 6319-6324.	
Briat, Corentin	KTH

WeC18	Baker
Uncertain Systems III (Regular Session)	
Chair: Leonessa, Alexander	Virginia Tech.
Co-Chair: Vaidya, Umesh	Iowa State Univ.
16:30-16:50	WeC18.1
<i>Robust Synchronization in Nonlinear Network with Link Failure Uncertainty</i> , pp. 6325-6330.	
Diwadkar, Amit	Iowa State Univ.
Vaidya, Umesh	Iowa State Univ.
16:50-17:10	WeC18.2
<i>Nonlinear Motion Control of CPG-Based Movement with Applications to a Class of Swimming Robots</i> , pp. 6331-6336.	
Morel, Yannick	Swiss Federal Inst. of Tech.
Porez, Mathieu	IRCCyN
Leonessa, Alexander	Virginia Tech.
Ijspeert, Auke Jan	School of Computer and Communication Sciences, EPFL
17:10-17:30	WeC18.3
<i>Robust Stability Analysis of Uncertain Linear Positive Systems Via Integral Linear Constraints: L_{1} and L_{∞}-Gain Characterizations</i> , pp. 6337-6342.	
Briat, Corentin	KTH
17:30-17:50	WeC18.4
<i>A High Order Sliding Mode Control Scheme Based on Adaptive Radial Basis Function Neural Network</i> , pp. 6343-6348.	
Tang, Wei-qiang	Xi'an Jiaotong Univ.
Cai, Yuan-Li	Xi'an Jiaotong Univ.
17:50-18:10	WeC18.5
<i>Worst-Case Analysis Based Adaptive Control Design for SISO Linear Systems with Plant and Actuation Uncertainties</i> , pp. 6349-6354.	
Zeng, Sheng	CareFusion Corp.
WeC19	Bay
Autonomous Robots II (Regular Session)	
Chair: Loizou, Savvas	Cyprus Univ. of Tech.
Co-Chair: Khorasani, Khashayar	Concordia Univ.
16:30-16:50	WeC19.1
<i>Path Tracking Control of Four Wheel Independently Steered Ground Robotic Vehicles</i> , pp. 6355-6360.	
Selekwa, Majura F.	North Dakota State Univ.
Nistler, Jonathan	North Dakota State Univ.
16:50-17:10	WeC19.2
<i>Closed Form Navigation Functions Based on Harmonic Potentials</i> , pp. 6361-6366.	
Loizou, Savvas	Cyprus Univ. of Tech.
17:10-17:30	WeC19.3
<i>Multi-Optimization of Eta3-Splines for Autonomous Parking</i> , pp. 6367-6372.	
Lini, Gabriele	Univ. of Parma
Piazzzi, Aurelio	Univ. of Parma
Consolini, Luca	Univ. of Parma
17:30-17:50	WeC19.4
<i>Planning Stable Trajectory on Uneven Terrain Based on Feasible Acceleration Count</i> , pp. 6373-6379.	
Singh, Arun Kumar	IIIT-Hyderabad
Krishna, K. Madhava	IIIT-Hyderabad
Eathakota, Vijay Prakash	International Inst. of Information Tech. Hyderabad, In
17:50-18:10	WeC19.5
<i>Reconfigurable Control of Networked Nonlinear Euler-Lagrange Systems Subject to Fault Diagnostic Imperfections</i> , pp. 6380-6387.	
Mehrabian, Ali Reza	Concordia Univ.
Tafazoli, Siamak	Concordia Univ.

WeC20		Broward
Stochastic Optimal Control II (Regular Session)		
Chair: Charalambous, Charalambos D.		Univ. of Cyprus
Co-Chair: Lim, Andrew E.B.		Univ. of California-Berkeley
16:30-16:50		WeC20.1
<i>Multi-Objective Decision-Making Problems for Discrete-Time Stochastic Systems with State and Disturbance-Dependent Noise</i> , pp. 6388-6393.		
Mukaidani, Hiroaki		Hiroshima Univ.
Xu, Hua		Univ. of Tsukuba
Dragan, Vasile		Romanian Acad.
16:50-17:10		WeC20.2
<i>Soft-Constrained Stochastic Nash Games for Weakly Coupled Large-Scale Discrete-Time Systems</i> , pp. 6394-6399.		
Mukaidani, Hiroaki		Hiroshima Univ.
Xu, Hua		Univ. of Tsukuba
Dragan, Vasile		Romanian Acad.
17:10-17:30		WeC20.3
<i>Decentralized Control of a Multi-Agent Stochastic Dynamic Resource Allocation Problem</i> , pp. 6400-6406.		
Cai, Huaning		IEOR Department, Univ. of California (Berkeley)
Lim, Andrew E.B.		Univ. of California-Berkeley
17:30-17:50		WeC20.4
<i>Stochastic Optimal Control of Discrete-Time Systems Subject to Conditional Distribution Uncertainty</i> , pp. 6407-6412.		
Charalambous, Charalambos D.		Univ. of Cyprus
Tzortzis, Ioannis		Univ. of Cyprus
Rezaei, Farzad		Unemployed
17:50-18:10		WeC20.5
<i>Dynamic Portfolio Choice with Market Impact Costs</i> , pp. 6413-6420.		
Lim, Andrew E.B.		Univ. of California-Berkeley
Wimonkittiwat, Poomyos		Univ. of California (Berkeley)
WeC21		Brevard
Agents and Autonomous Systems IX (Regular Session)		
Chair: Bamieh, Bassam		Univ. of California at Santa Barbara
Co-Chair: Ishii, Hideaki		Tokyo Inst. of Tech.
16:30-16:50		WeC21.1
<i>A New Approach for Aggregated PageRank Computation Via Distributed Randomized Algorithms</i> , pp. 6421-6426.		
Ishii, Hideaki		Tokyo Inst. of Tech.
Tempo, Roberto		Pol. di Torino
Bai, Er-Wei		Univ. of Iowa
16:50-17:10		WeC21.2
<i>Quantized Consensus with Finite Data Rate under Directed Topologies</i> , pp. 6427-6432.		
Wang, Yao		Beijing Inst. of Tech.
Wu, Qinghe		Beijing Inst. of Tech.
Wang, Yinqiu		Beijing Inst. of Tech.
17:10-17:30		WeC21.3
<i>Sufficient Conditions for Decentralized Navigation Functions Based Controllers Using Canonical Vector Fields</i> , pp. 6433-6438.		
Dimarogonas, Dimos V.		Royal Inst. of Tech.
17:30-17:50		WeC21.4
<i>Explorability of Noisy Scalar Fields</i> , pp. 6439-6444.		
Wu, Wencen		Georgia Inst. of Tech.
Zhang, Fumin		Georgia Inst. of Tech.

17:50-18:10 WeC21.5

Network Coherence in Fractal Graphs, pp. 6445-6450.

Patterson, Stacy
Bamieh, Bassam

Univ. of California at Santa Barbara
Univ. of California at Santa Barbara

WeC22 Bradford

Subspace Methods (Regular Session)

Chair: Lovera, Marco
Co-Chair: Qin, S. Joe

Pol. di Milano
Univ. of Southern California

16:30-16:50 WeC22.1

Uncertainty Quantification for Stochastic Subspace Identification on Multi-Setup Measurements, pp. 6451-6456.

Döhler, Michael
Lam, Xuan-Binh
Mevel, Laurent

INRIA Centre Rennes - Bretagne Atlantique
INRIA Rennes - Bretagne Atlantique
INRIA

16:50-17:10 WeC22.2

A Subspace Algorithm for Identifying 2-D CRSD Systems with Deterministic Inputs, pp. 6457-6462.

Ramos, Jose A.
Alenany, Ahmed
Shang, Huilan
Lopes dos Santos, P.

Nova Southeastern Univ.
Laurentian Univ.
Univ. of Alberta
Univ. do Porto

17:10-17:30 WeC22.3

Indirect Continuous-Time System Identification---A Subspace Downsampling Approach, pp. 6463-6468.

Lopes dos Santos, P.
Azevedo Perdicoulis, T-P
Ramos, Jose A.
Jank, Gerhard
Martins de Carvalho, J.L.

Univ. do Porto
ISR-Coimbra & UTAD
Nova Southeastern Univ.
RWTH Aachen
Faculdade de Engenharia da Univ. do Porto

17:30-17:50 WeC22.4

Recursive Continuous-Time Subspace Identification Using Laguerre Filters, pp. 6469-6474.

Bergamasco, Marco
Lovera, Marco
Ohta, Yoshito

Pol. di Milano
Pol. di Milano
Kyoto Univ.

17:50-18:10 WeC22.5

Modeling CO_2 Recovery for Optimal Dynamic Operations, pp. 6475-6480.

Dunia, Ricardo
Rochelle, Gary
Qin, S. Joe

The Univ. of Texas at Austin
Univ. of Texas at Austin
Univ. of Southern California

Technical Program for Thursday December 15, 2011

ThPL	Bonnet Creek Ballroom VI & IX
Fifty Years of Information Based Control Theory (Bode Lecture) (Plenary Session)	
Chair: Tempo, Roberto	Pol. di Torino
Co-Chair: Middleton, Richard H.	National Univ. of Ireland Maynooth
08:30-09:30	ThPL.1
<i>Fifty Years of Information Based Control Theory*</i> .	
Baillieul, John	Boston Univ.
ThA01	Orange
Control Applications to the Electrical Treatment of Pathological Tremor (Invited Session)	
Chair: Chaillet, Antoine	Univ. Paris Sud
Co-Chair: Poignet, Philippe	Univ. Montpellier 2
Organizer: Chaillet, Antoine	Univ. Paris Sud
Organizer: Poignet, Philippe	Univ. Montpellier 2
10:00-10:20	ThA01.1
<i>Deep Brain Stimulation May Reduce Tremor by Preferential Blockade of Slower Axons Via Antidromic Activation (I)</i> , pp. 6481-6486.	
Rodríguez García, Miriam	NUIM
Verwoerd, Mark	National Univ. of Ireland, Maynooth
Pearlmutter, Barak	Hamilton Inst. NUI Maynooth, Co. Kildare, Ireland
Wellstead, Peter E.	Hamilton Inst.
Middleton, Richard H.	National Univ. of Ireland Maynooth
10:20-10:40	ThA01.2
<i>Towards Model-Based Control of Parkinson's Disease: A Perspective (I)</i> , pp. 6487-6491.	
Schiff, Steven	Penn State Univ.
10:40-11:00	ThA01.3
<i>Bifurcation Analysis Points towards the Source of Beta Neuronal Oscillations in Parkinson's Disease (I)</i> , pp. 6492-6497.	
Nevado-Holgado, Alejo Jesus	Univ. of Cambridge
Terry, John R.	Univ. of Sheffield
Rafal, Bogacz	Univ. of Bristol
11:00-11:20	ThA01.4
<i>On the Use of FES to Attenuate Tremor by Modulating Joint Impedance (I)</i> , pp. 6498-6503.	
Padilha Lanari Bó, Antônio	Univ. de Brasília
Azevedo-Coste, Christine	LIRMM
Poignet, Philippe	Univ. Montpellier 2
Geny, Christian	CHU Montpellier
Fattal, Charles	Centre Propara
11:40-12:00	ThA01.6
<i>An Input-Output Approach to the Robust Synchronization of Dynamical Systems with an Application to the Hindmarsh-Rose Neuronal Model (I)</i> , pp. 6504-6509.	
Franci, Alessio	Univ. Paris XI - Supélec
Scardovi, Luca	Tech. Univ. München
Chaillet, Antoine	Univ. Paris Sud 11
ThA02	Dixie
Algebraic/Geometric Methods I (Regular Session)	
Chair: Ohtsuka, Toshiyuki	Osaka Univ.
Co-Chair: Barbero-Linan, Maria	ICMAT (CSIC-UAM-UC3M-UCM)
10:00-10:20	ThA02.1
<i>Positive Feedback Interconnection of Hamiltonian Systems</i> , pp. 6510-6515.	
van der Schaft, Arjan J.	Univ. of Groningen

10:20-10:40	ThA02.2
<i>Converse Results on Existence of Sum of Squares Lyapunov Functions</i> , pp. 6516-6521.	
Ahmadi, Amir Ali	MIT
Parrilo, Pablo A.	Massachusetts Inst. of Tech.
10:40-11:00	ThA02.3
<i>Kinematics for Rolling a Lorentzian Sphere</i> , pp. 6522-6527.	
Korolko, Anna	Univ. of Bergen
Silva Leite, Fátima	Univ. of Coimbra
11:00-11:20	ThA02.4
<i>Characterization of Accessibility for Affine Connection Control Systems at Some Points with Nonzero Velocity</i> , pp. 6528-6533.	
Barbero-Linan, Maria	ICMAT (CSIC-UAM-UC3M-UCM)
11:20-11:40	ThA02.5
<i>Local Linear Dynamics Assignment in IDA-PBC for Underactuated Mechanical Systems</i> , pp. 6534-6539.	
Kotyczka, Paul	Tech. Univ. Muenchen
ThA03	Columbia
Reduced-Order Modeling (Regular Session)	
Chair: Kotsalis, Georgios	Georgia Tech.
Co-Chair: Wen, John T.	Rensselaer Pol. Inst.
10:00-10:20	ThA03.1
<i>Hybrid Model Reduction for Compressible Flow Controller Design</i> , pp. 6540-6545.	
Ge, Xiaoqing	Rensselaer Pol. Inst.
Wen, John T.	Rensselaer Pol. Inst.
10:20-10:40	ThA03.2
<i>Dynamical Modeling of the Unsteady Flow Over a Flapping Wing by Applying Proper Orthogonal Decomposition and System Identification to Particle Image Velocimetry Data</i> , pp. 6546-6551.	
Durmaz, Oguz	METU
Karaca, H. Deniz	TOBB ETU
Ozen, G. Deniz	METU
Kasnakoglu, Cosku	TOBB Ekonomi ve Teknoloji Univ.
Kurtulus, D. Funda	METU
10:40-11:00	ThA03.3
<i>Simultaneous Balancing and Model Reduction of Switched Linear Systems</i> , pp. 6552-6557.	
Monshizadeh Naini, Nima	Univ. of Groningen
Trentelman, Harry L.	Univ. of Groningen
Camlibel, Kanat	Univ. of Groningen
11:00-11:20	ThA03.4
<i>A Counterexample to Aggregation Based Model Reduction of Hidden Markov Models</i> , pp. 6558-6563.	
Kotsalis, Georgios	Georgia Tech.
Shamma, Jeff S.	Georgia Inst. of Tech.
11:20-11:40	ThA03.5
<i>Structure-Preserving Model Reduction for Nonlinear Port-Hamiltonian Systems</i> , pp. 6564-6569.	
Beattie, Christopher A.	Virginia Tech.
Gugercin, Serkan	Virginia Tech.
ThA04	Nassau
Optimization Algorithms IV (Regular Session)	
Chair: Stursberg, Olaf	Univ. of Kassel
Co-Chair: Dhal, Rahul	Washington State Univ.
10:00-10:20	ThA04.1
<i>A Continuous-State Version of Discrete Randomized Shortest-Paths, with Application to Path Planning</i> , pp. 6570-6577.	
García-Díez, Silvia	Univ. catholique de Louvain

Vandenbussche, Eric Saerens, Marco	Univ. libre de Bruxelles Univ. catholique de Louvain
10:20-10:40	ThA04.2
<i>Performance Analysis of an Influence-Model-Based Graph Partitioning Algorithm</i> , pp. 6578-6583.	
Dhal, Rahul Roy, Sandip	Washington State Univ. Washington State Univ.
10:40-11:00	ThA04.3
<i>Optimal Disturbance Rejection Control Design for Electric Power Steering Systems</i> , pp. 6584-6589.	
Mehrabi, Naser L.Azad, Nasser McPhee, John	Univ. of Waterloo Univ. of Waterloo Univ. of Waterloo
11:00-11:20	ThA04.4
<i>Cost Function Design for Economically Optimal Grade Changes for a Polyethylene Gas Phase Reactor</i> , pp. 6590-6595.	
Larsson, Per-Ola Andersson, Niklas Akesson, Johan	Lund Univ. Department of Chemical Engineering, Lund Univ. Lund Univ.
11:20-11:40	ThA04.5
<i>Layout Algorithm of Searching Point for a CFD Optimization Problem</i> , pp. 6596-6601.	
Kuriyama, Yoshifumi Yano, Ken'ichi Watanabe, Mamoru	Gifu National Coll. of Tech. Mie Univ. Terrabyte Co.,Ltd.
ThA05	Taylor
Dynamics Over Complex Networks - III (Invited Session)	
Chair: Yildiz, Mehmet Ercan	MIT
Co-Chair: Ozdaglar, Asuman	MIT
Organizer: Yildiz, Mehmet Ercan	MIT
Organizer: Ozdaglar, Asuman	MIT
10:00-10:20	ThA05.1
<i>Degree Fluctuations and the Convergence Time of Consensus Algorithms (I)</i> , pp. 6602-6607.	
Olshevsky, Alexander Tsitsiklis, John	Princeton Univ. Massachusetts Inst. of Tech.
10:20-10:40	ThA05.2
<i>Distributed Control of Positive Systems (I)</i> , pp. 6608-6611.	
Rantzer, Anders	Lund Univ.
10:40-11:00	ThA05.3
<i>On Dual Convergence of the Distributed Newton Method for Network Utility Maximization (I)</i> , pp. 6612-6617.	
Wei, Ermin Zargham, Michael Ozdaglar, Asuman Jadbabaie, Ali	MIT Univ. of Pennsylvania MIT Univ. of Pennsylvania
11:00-11:20	ThA05.4
<i>Approximate Manipulability of Leader-Follower Networks (I)</i> , pp. 6618-6623.	
Kawashima, Hiroaki Egerstedt, Magnus	Kyoto Univ. / Georgia Inst. of Tech. Georgia Inst. of Tech.
11:20-11:40	ThA05.5
<i>Attack-Resilient Distributed Formation Control Via Online Adaptation (I)</i> , pp. 6624-6629.	
Zhu, Minghui Martinez, Sonia	Univ. of California, San Diego Univ. of California at San Diego
11:40-12:00	ThA05.6
<i>Distributed Control for Optimal Reactive Power Compensation in Smart Microgrids (I)</i> , pp. 6630-6635.	
Bolognani, Saverio Zampieri, Sandro	Univ. of Padova Univ. di Padova

ThA06	Jackson
Sensor Networks I (Regular Session)	
Chair: Fanti, Maria Pia	Pol. of Bari
Co-Chair: Rizzo, Alessandro	Pol. di Bari
10:00-10:20	ThA06.1
<i>New Consensus Algorithms Based on a Positive Splitting Approach</i> , pp. 6636-6641.	
Boschian, Valentina	Univ. of Trieste
Fanti, Maria Pia	Pol. of Bari
Mangini, Agostino Marcello	Pol. di Bari
Ukovich, Walter	Univ. of Trieste
10:20-10:40	ThA06.2
<i>Towards Power-Aware Rendezvous</i> , pp. 6642-6647.	
Jaleel, Hassan	Georgia Inst. of Tech.
Bopardikar, Shaunak D.	United Tech. Res. Center, Inc.
Egerstedt, Magnus	Georgia Inst. of Tech.
10:40-11:00	ThA06.3
<i>Consensus-Based Distributed Estimation for Target Tracking in Heterogeneous Sensor Networks</i> , pp. 6648-6653.	
Petitti, Antonio	National Council of Res.
Di Paola, Donato	National Res. Council (CNR)
Rizzo, Alessandro	Pol. di Bari
Cicirelli, Grazia	National Res. Council - CNR - Italy
11:00-11:20	ThA06.4
<i>Input Driven Consensus Algorithm for Distributed Estimation and Classification in Sensor Networks</i> , pp. 6654-6659.	
Fagnani, Fabio	Pol. Di Torino
Fosson, Sophie	Pol. di Torino
Ravazzi, Chiara	Pol. di Torino
11:20-11:40	ThA06.5
<i>Corrective Consensus with Asymmetric Wireless Links</i> , pp. 6660-6665.	
Chen, Yin	Johns Hopkins Univ.
Tron, Roberto	Johns Hopkins Univ.
Terzis, Andreas	Johns Hopkins Univ.
Vidal, Rene	Johns Hopkins Univ.
ThA07	Escambia
Estimation IV (Regular Session)	
Chair: Rajamani, Rajesh	Univ. of Minnesota
Co-Chair: Sengupta, Raja	Univ. of California at Berkeley
10:00-10:20	ThA07.1
<i>Framework for Estimating System Reliability from Full System and Subsystem Tests with Dependence on Dynamic Inputs</i> , pp. 6666-6671.	
Maranzano, Coire Joseph	Johns Hopkins Univ. Applied Physics Lab.
Spall, James C.	Johns Hopkins Univ.
10:20-10:40	ThA07.2
<i>Belt-Pulley Friction Estimation for the Continuously Variable Transmission</i> , pp. 6672-6677.	
van Berkel, Koos	Eindhoven Univ. of Tech.
Fujii, Toru	Department of Mechanical Engineering, Doshisha Univ. Kyoto
Hofman, Theo	Tech. Univ. Eindhoven
Steinbuch, Maarten	Eindhoven Univ. of Tech.
10:40-11:00	ThA07.3
<i>Moving Horizon Estimator for Measurement Delay Compensation in Model Predictive Control Schemes</i> , pp. 6678-6683.	
Valencia, Felipe	Colombia National Univ.
Lopez, Jose David	Univ. Nacional de Colombia

Marquez, Alejandro	Univ. Nacional de Colombia
Espinosa, Jairo	Univ. Nacional de Colombia
11:00-11:20	ThA07.4
<i>Control of an Electric Power Assisted Steering System Using Reference Model</i> , pp. 6684-6690.	
Marouf, Alaa	Univ. de Valenciennes et du Hainaut-Cambrésis (UVHC)
Sentouh, Chouki	Univ. of Valenciennes
Djemai, Mohamed	Univ. de Valenciennes et du Hainaut-Cambrésis (UVHC)
Pudlo, Philippe	UVHC
11:20-11:40	ThA07.5
<i>Real-Time Tracking of Linear Processes Over an AWGN Channel without Feedback: The MMSE Optimality of the Innovation Encoder</i> , pp. 6691-6696.	
Huang, Ching-Ling	Univ. of California, Berkeley
Sengupta, Raja	Univ. of California at Berkeley
Huang, Jiangchuan	UC Berkeley
ThA08	Flagler
Optimal Control IV (Regular Session)	
Chair: Passenberg, Benjamin	Tech. Univ. Muenchen
Co-Chair: Skogestad, Sigurd	Norwegian Univ. of Science & Tech.
10:00-10:20	ThA08.1
<i>Design of Penalty Functions for Optimal Control of Linear Dynamical Systems under State and Input Constraints</i> , pp. 6697-6704.	
Malisani, Paul	MINES ParisTech
Chaplais, Francois	MINES ParisTech
Petit, Nicolas	MINES ParisTech
10:20-10:40	ThA08.2
<i>On Decomposition of Linear-Quadratic Optimal Control Problems for Two-Steps Descriptor Systems</i> , pp. 6705-6710.	
Kurina, Galina	Voronezh State Acad. of Forestry Engineering
10:40-11:00	ThA08.3
<i>Singular LQR Control, Impulse-Free Interconnection and Optimal PD Controller Design</i> , pp. 6711-6716.	
Kalaimani, Rachel Kalpana	INDIAN Inst. OF Tech. BOMBAY
Belur, Madhu N.	Indian Inst. of Tech. Bombay
11:00-11:20	ThA08.4
<i>Necessary Conditions of Optimality for State Constrained Infinite Horizon Differential Inclusions</i> , pp. 6717-6722.	
Pereira / FEUP, Fernando Lobo	Porto Univ.
Silva, Geraldo Nunes	Univ. Estadual Paulista
11:20-11:40	ThA08.5
<i>The Minimum Principle for Time-Varying Hybrid Systems with State Switching and Jumps</i> , pp. 6723-6729.	
Passenberg, Benjamin	Tech. Univ. Muenchen
Leibold, Marion	TU Muenchen
Stursberg, Olaf	Univ. of Kassel
Buss, Martin	Tech. Univ. Muenchen
ThA09	Gilchrist
Stability of Nonlinear Systems III (Regular Session)	
Chair: Rogers, Eric	Univ. of Southampton
Co-Chair: Sepulchre, Rodolphe J.	Univ. de Liege
10:00-10:20	ThA09.1
<i>Stability of Interconnected Thermodynamic Systems</i> , pp. 6730-6735.	
Gromov, Dmitry	McGill Univ.
Caines, Peter E.	McGill Univ.
10:20-10:40	ThA09.2
<i>Absolute Stability and Stabilization of \mathcal{H}_∞ Roesser Systems with Nonlinear Output Feedback</i> , pp. 6736-6741.	

Pakshin, Pavel Galkowski, Krzysztof Rogers, Eric	Nizhny Novgorod State Tech. Univ. Univ. of Zielona Gora Univ. of Southampton
10:40-11:00	ThA09.3
<i>Distributed Clock Synchronization: Joint Frequency and Phase Consensus</i> , pp. 6742-6747.	
Mallada, Enrique Tang, Kevin	Cornell Univ. Cornell Univ.
11:00-11:20	ThA09.4
<i>Desynchronization of Coupled Phase Oscillators, with Application to the Kuramoto System under Mean-Field Feedback</i> , pp. 6748-6753.	
Franci, Alessio Panteley, Elena V. Chaillet, Antoine Lamnabhi-Lagarrigue, Francoise	Univ. Paris XI - Supélec CNRS Univ. Paris Sud 11 CNRS and EECl
11:20-11:40	ThA09.5
<i>Local Stability Results for the Collective Behaviors of Infinite Populations of Pulse-Coupled Oscillators</i> , pp. 6754-6759.	
Mauroy, Alexandre Sepulchre, Rodolphe J.	Univ. of Liege Univ. de Liege
ThA10	Hamilton
Robust Adaptive Control I (Regular Session)	
Chair: Landau, Ioan Dore Co-Chair: Jagannathan, Sarangapani	GIPSA-Lab. Control Dept. Missouri Univ. of Science & Tech.
10:00-10:20	ThA10.1
<i>Adaptive Systems with Guaranteed Delay Margins</i> , pp. 6760-6764.	
Matsutani, Megumi Annaswamy, Anuradha Gibson, Travis Lavretsky, Eugene	Massachusetts Inst. of Tech. Massachusetts Inst. of Tech. Massachusetts Inst. of Tech. The Boeing Co.
10:20-10:40	ThA10.2
<i>Robust Integral of Neural Network and Sign of Tracking Error Control of Uncertain Nonlinear Affine Systems Using State and Output Feedback</i> , pp. 6765-6770.	
Yang, Qinmin Jagannathan, Sarangapani Sun, Youxian	Zhejiang Univ. Missouri Univ. of Science & Tech. Zhejiang Univ.
10:40-11:00	ThA10.3
<i>Hybrid Adaptive Feedforward-Feedback Compensation Algorithms for Active Vibration Control Systems</i> , pp. 6771-6776.	
Alma, Marouane Landau, Ioan Dore Martinez Molina, John Jairo Airimitoaie, Tudor-Bogdan	Gipsa-Lab. GIPSA-Lab. Control Dept. GIPSA-Lab. GRENOBLE-INP Gipsa-Lab. Univ. de Grenoble
11:00-11:20	ThA10.4
<i>An IIR Youla-Kucera Parametrized Adaptive Feedforward Compensator for Active Vibration Control with Mechanical Coupling</i> , pp. 6777-6782.	
Landau, Ioan Dore Airimitoaie, Tudor-Bogdan Alma, Marouane	GIPSA-Lab. Control Dept. Gipsa-Lab. Univ. de Grenoble Gipsa-Lab.
11:40-12:00	ThA10.6
<i>Robust Self-Tuning PID-Like Control with a Filter for a Class of Discrete Time Systems</i> , pp. 6783-6787.	
Fu, Yue Chai, Tianyou	Northeastern Univ. Northeastern Univ.

ThA11

Indian River

Hybrid Systems V (Regular Session)

Chair: Althoff, Matthias	Carnegie Mellon Univ.
Co-Chair: Bauso, Dario	Univ. di Palermo
10:00-10:20	ThA11.1
<i>A Stochastic Dynamic Principle for Hybrid Systems with Execution Delay and Decision Lags</i> , pp. 6788-6793.	
Granato, Giovanni	ENSTA ParisTech - INRIA
Zidani, Hasnaa	ENSTA ParisTech
Bonnans, Frederic	Mocooa INRIA-Rocquencourt
10:20-10:40	ThA11.2
<i>Binary Signals Design to Control a Power Converter</i> , pp. 6794-6799.	
Van Gorp, Jeremy	UVHC
Defoort, Michael	UVHC
Djemai, Mohamed	Univ. de Valenciennes et du Hainaut-Cambrésis (UVHC)
10:40-11:00	ThA11.3
<i>Linear Optimal State Estimation in Systems with Independent Mode Transitions</i> , pp. 6800-6807.	
Sigalov, Daniel	Tech. - Israel Inst. of Tech.
Michaeli, Tomer	Tech. - Israel Inst. of Tech.
Oshman, Yaakov	Tech. - Israel Inst. of Tech.
11:00-11:20	ThA11.4
<i>Control of Production-Distribution Systems under Discrete Disturbances and Control Actions</i> , pp. 6808-6813.	
Bauso, Dario	Univ. di Palermo
Tarraf, Danielle C.	The Johns Hopkins Univ.
11:20-11:40	ThA11.5
<i>Zonotope Bundles for the Efficient Computation of Reachable Sets</i> , pp. 6814-6821.	
Althoff, Matthias	Carnegie Mellon Univ.
Krogh, Bruce H.	Carnegie Mellon Univ.

ThA12

Lake

Automotive Control I (Regular Session)

Chair: Djemai, Mohamed	Univ. de Valenciennes et du Hainaut-Cambrésis (UVHC)
Co-Chair: Dong, Ke	General Motors
10:00-10:20	ThA12.1
<i>Model-Based Threat Assessment in Semi-Autonomous Vehicles with Model Parameter Uncertainties</i> , pp. 6822-6827.	
Ali, Mohammad	Volvo Car Corp.
Falcone, Paolo	Chalmers Univ. of Tech.
Sjoberg, Jonas E.	Chalmers Univ. of Tech.
10:20-10:40	ThA12.2
<i>LTV-MPC Approach for Lateral Vehicle Guidance by Front Steering at the Limits of Vehicle Dynamics</i> , pp. 6828-6833.	
Katriniok, Alexander	RWTH Aachen Univ. Germany
Abel, Dirk	RWTH Aachen Univ.
10:40-11:00	ThA12.3
<i>Modeling Cyclic Dispersion in Autoignition Combustion</i> , pp. 6834-6839.	
Hellström, Erik	Univ. of Michigan
Stefanopoulou, Anna G.	Univ. of Michigan
11:00-11:20	ThA12.4
<i>H_∞ Robust Control of a Seat Belt Load-Limiting Device</i> , pp. 6840-6845.	
Dong, Ke	General Motors
11:20-11:40	ThA12.5
<i>A Hybrid Control Approach for Low Temperature Combustion Engine Control</i> , pp. 6846-6851.	
Albin, Thivaharan	RWTH Aachen Univ. Inst. of Automatic Control
Drews, Peter	RWTH Aachen Univ. Inst. of Automatic Control
Heßeler, Frank	RWTH Aachen Univ.
Ivanescu, Anca Maria	RWTH Aachen Univ.

ThA13		Manatee
Aerospace II (Regular Session)		
Chair: Simani, Silvio		Univ. of Ferrara
Co-Chair: Ebihara, Yoshio		Kyoto Univ.
10:00-10:20		ThA13.1
<i>A New Longitudinal Flight Path Control with Adaptive Wind Shear Estimation and Compensation</i> , pp. 6852-6857.		
Baldi, Pietro	Dipartimento di Elettronica, Informatica e Sistemistica, Facoltà	
Castaldi, Paolo	Univ. di Bologna, II Facoltà di Ingegneria	
Mimmo, Nicola	Dipartimento di Elettronica, Informatica e Sistemistica, Facoltà	
Torre, Alessio	Dipartimento di Elettronica, Informatica e Sistemistica, facoltà	
Simani, Silvio		Univ. of Ferrara
10:20-10:40		ThA13.2
<i>Output-Feedback Control of the Longitudinal Flight Dynamics Using Adaptive Backstepping</i> , pp. 6858-6863.		
Gavilan, Francisco		Univ. of Seville
Vazquez, Rafael		Univ. de Sevilla
Acosta, Jose Angel		Univ. de Sevilla
10:40-11:00		ThA13.3
<i>3D Path Planning in a Threat Environment</i> , pp. 6864-6869.		
Miller, Boris		Monash Univ.
Stepanyan, Karen	Inst. for Information Transmission Problems (KharkevichInsti	
Miller, Alexander	Inst. for Information Transmission Problems	
Andreev, Mikhail	Inst. for Information Transmission Problems(KharkevichInsti	
11:00-11:20		ThA13.4
<i>PD+ Based Spacecraft Attitude Tracking with Magnetometer Rate Feedback</i> , pp. 6870-6875.		
Kristiansen, Raymond		Narvik Univ. Coll.
Schlanbusch, Rune		Narvik Univ. Coll.
Oland, Espen		Narvik Univ. Coll.
11:20-11:40		ThA13.5
<i>Periodic H2 Synthesis for Spacecraft Attitude Control with Magnetorquers and Reaction Wheels</i> , pp. 6876-6881.		
Tregouet, Jean-Francois		LAAS-CNRS
Arzelier, Denis		LAAS-CNRS
Peaucelle, Dimitri	LAAS-CNRS, Univ. de Toulouse	
Ebihara, Yoshio		Kyoto Univ.
Pittet, Christelle		CNES
Falcoz, Alexandre		IMS
ThA14		Sarasota
Distributed Control I (Regular Session)		
Chair: Cortes, Jorge		Univ. of California, San Diego
Co-Chair: Doyle, John C.		California Inst. of Tech.
10:00-10:20		ThA14.1
<i>Coalition Formation and Motion Coordination for Optimal Deployment</i> , pp. 6882-6887.		
Ouimet, Michael		Univ. of California, San Diego
Cortes, Jorge		Univ. of California, San Diego
10:20-10:40		ThA14.2
<i>Distributed Coordination-By-Constraint Strategies for Multi-Agent Networked Systems</i> , pp. 6888-6893.		
Casavola, Alessandro		Univ. Della Calabria
Garone, Emanuele		Univ. Libre de Bruxelles
Tedesco, Francesco		Univ. della Calabria
10:40-11:00		ThA14.3

Suboptimal Decentralized Controller Design for Chain Structures: Applications to Vehicle Formations, pp. 6894-6900.
 Alam, Assad Al Royal Inst. of Tech.
 Gattami, Ather KTH - Royal Inst. of Tech.
 Johansson, Karl H. Royal Inst. of Tech.

11:00-11:20 ThA14.4

On the Structure of State-Feedback LQG Controllers for Distributed Systems with Communication Delays, pp. 6901-6906.
 Lamperski, Andrew California Inst. of Tech.
 Doyle, John C. California Inst. of Tech.

11:20-11:40 ThA14.5

Exact Power Constraints in Smart Grid Control (I), pp. 6907-6912.
 Trangbaek, Klaus Aalborg Univ.
 Petersen, Mette Aalborg Univ. and DONG Energy
 Bendtsen, Jan Dimon Aalborg Univ.
 Stoustrup, Jakob Aalborg Univ.

ThA15 Union
Output Feedback and Observers I (Regular Session)

Chair: Cao, Chengyu Univ. of Connecticut
 Co-Chair: Reyhanoglu, Mahmut Embry Riddle Aeronautical Univ.

10:00-10:20 ThA15.1

State Estimators for a Class of Nonlinear Systems, pp. 6913-6918.
 Stadlmayr, Richard Linz Center of Mechatronics
 Siuka, Andreas Johannes Kepler Univ.
 Daxberger, Harald Johannes Kepler Univ. Linz

10:20-10:40 ThA15.2

Convergent Series Observer Design for a Class of Nonlinear Systems, pp. 6919-6924.
 Ding, Zhengtao The Univ. of Manchester

10:40-11:00 ThA15.3

Fractional Sliding Mode Observer Design for a Class of Uncertain Fractional Order Nonlinear Systems, pp. 6925-6930.
 Dadras, Sara Tarbiat Modares Univ.
 Momeni, Hamidreza Tarbiat Modares Univ. of Tehran

11:00-11:20 ThA15.4

Nonlinear Estimation of Fluid Flow Velocity Fields, pp. 6931-6935.
 MacKunis, William Embry-Riddle Aeronautical Univ.
 Drakunov, Sergey Embry-Riddle Aeronautical Univ.
 Reyhanoglu, Mahmut Embry Riddle Aeronautical Univ.
 Ukeiley, Lawrence Univ. of Mississippi

11:20-11:40 ThA15.5

Tests on a Virtual Patient for an Observer-Based, Closed-Loop Control of Plasma Glycemia, pp. 6936-6941.
 Palumbo, Pasquale IASI-CNR
 Pizzichelli, Giulia IASI-CNR, BioMatLab
 Panunzi, Simona Consiglio Nazionale delle Ricerche
 Pepe, Pierdomenico Univ. of L' Aquila
 De Gaetano, Andrea CNR

ThA16 Palm Beach
Computational Methods (Regular Session)

Chair: Pekarek, David Northwestern Univ.
 Co-Chair: Saccon, Alessandro Inst. Superior Técnico

10:00-10:20 ThA16.1

A Backwards Error Analysis Approach for Simulation and Control of Nonsmooth Mechanical Systems, pp. 6942-6949.
 Pekarek, David Northwestern Univ.
 Murphey, Todd Northwestern Univ.

10:20-10:40	ThA16.2
<i>Matrix Approach to Boolean Calculus</i> , pp. 6950-6955.	
Cheng, Daizhan	Chinese Acad. of Sciences
Zhao, Yin	Acad. of Mathematics and Systems Science, CAS
Xu, Xiangru	Acad. of Mathematics and System Science, CAS
10:40-11:00	ThA16.3
<i>Computation of the Frequency Responses for Distributed Systems with One Spatial Variable</i> , pp. 6956-6961.	
Lieu, Binh K.	Univ. of Minnesota
Jovanovic, Mihailo	Univ. of Minnesota
11:00-11:20	ThA16.4
<i>SVD-Based Computation of Zeros of Polynomial Matrices</i> , pp. 6962-6966.	
Holzel, Matthew	Univ. of Michigan
Bernstein, Dennis S.	Univ. of Michigan
11:20-11:40	ThA16.5
<i>Numerical Construction of LISS Lyapunov Functions under a Small Gain Condition</i> , pp. 6967-6972.	
Geiselhart, Roman	Univ. of Wuerzburg
Wirth, Fabian R.	Univ. Würzburg
11:40-12:00	ThA16.6
<i>Lie Group Projection Operator Approach: Optimal Control on $T SO(3)$</i> , pp. 6973-6978.	
Saccon, Alessandro	Inst. Superior Técnico
Aguiar, A. Pedro	Inst. Superior Tecnico, Tech. Univ. of Lisbon
Hauser, John	Univ. of Colorado at Boulder
ThA17	Alachua
Distributed Parameter Systems VI (Regular Session)	
Chair: van der Schaft, Arjan J.	Univ. of Groningen
Co-Chair: Pisano, Alessandro	Univ. of Cagliari
10:00-10:20	ThA17.1
<i>Structure Preserving Spatial Discretization of 1D Convection-Diffusion Port-Hamiltonian Systems</i> , pp. 6979-6984.	
Voss, Thomas	Eindhoven Univ. of Tech.
Weiland, Siep	Eindhoven Univ. of Tech.
10:20-10:40	ThA17.2
<i>Designing Observer-Based Controllers for PDE Systems: A Heat-Conducting Rod with Point Observation and Boundary Control</i> , pp. 6985-6990.	
Gahlawat, Aditya	Illinois Inst. of Tech.
Peet, Matthew M.	Illinois Inst. of Tech.
10:40-11:00	ThA17.3
<i>Generalized Kalman-Yakubovich-Popov Lemma for 2-D FM LSS Model and Its Application to Finite Frequency Positive Real Control</i> , pp. 6991-6996.	
Li, Xianwei	Harbin Inst. of Tech.
Gao, Huijun	Harbin Inst. of Tech.
11:00-11:20	ThA17.4
<i>Optimal Control of a Class of Linear Nonautonomous Parabolic PDE Via Two-Parameter Semigroup Representation</i> , pp. 6997-7002.	
Ng, James	Univ. of Alberta
Dubljevic, Stevan	Univ. of Alberta
Aksikas, Ilyasse	King Abdelaziz Univ.
11:20-11:40	ThA17.5
<i>A Discrete Exterior Approach to Structure-Preserving Discretization of Distributed-Parameter Port-Hamiltonian Systems</i> , pp. 7003-7008.	
Seslija, Marko	Faculty of Mathematics and Natural Sciences, Univ. of Groni
Scherpen, Jacquelin M.A.	Univ. of Groningen
van der Schaft, Arjan J.	Univ. of Groningen

ThA18	Baker
Sliding Mode Control I (Regular Session)	
Chair: Ferrara, Antonella	Univ. of Pavia
Co-Chair: Utkin, Vadim I.	Ohio State Univ.
10:00-10:20	ThA18.1
<i>Adaptive Super-Twist Control with Minimal Chattering Effect</i> , pp. 7009-7014.	
Utkin, Vadim I.	Ohio State Univ.
Poznyak, Alexander S.	CINVESTAV-IPN
Ordaz, Patricio	CINVESTAV
10:20-10:40	ThA18.2
<i>Twisting-Controller Gain Adaptation</i> , pp. 7015-7020.	
Levant, Arie	Tel - Aviv Univ.
Taleb, Mohammed	IRCCyN-Ec. Centrale de Nantes
Plestan, Franck	Ec. Centrale de Nantes-IRCCyN
10:40-11:00	ThA18.3
<i>Output-Feedback Sliding Mode Control for Global Tracking of Uncertain Nonlinear Time-Delay Systems</i> , pp. 7021-7026.	
Lobo Coutinho, Camila	Petrobras Transporte
Oliveira, Tiago Roux	State Univ. of Rio de Janeiro
Cunha, José Paulo V. S.	State Univ. of Rio de Janeiro
11:00-11:20	ThA18.4
<i>A New Finite-Time Convergent and Robust Direct Model Reference Adaptive Control for SISO Linear Time Invariant Systems</i> , pp. 7027-7032.	
Guzman, Eder	Univ. Nacional Autonoma de México
Moreno, Jaime A.	Univ. Nacional Autonoma de Mexico-UNAM
11:20-11:40	ThA18.5
<i>Switched Second Order Sliding Mode Control with Partial Information</i> , pp. 7033-7038.	
Tanelli, Mara	Pol. di Milano
Ferrara, Antonella	Univ. of Pavia
ThA19	Bay
Process Control (Regular Session)	
Chair: Balestrino, Aldo	Univ. di Pisa
Co-Chair: Gambier, Adrian	Heidelberg Univ.
10:00-10:20	ThA19.1
<i>Constrained Stabilization of a Continuous Stirred Tank Reactor Via Smooth Control Lyapunov R-Functions</i> , pp. 7039-7044.	
Balestrino, Aldo	Univ. di Pisa
Caiti, Andrea	Univ. of Pisa
Grammatico, Sergio	Univ. of Pisa
10:20-10:40	ThA19.2
<i>Control of a Reverse Osmosis Plant by Using a Robust PID Design Based on Multi-Objective Optimization</i> , pp. 7045-7050.	
Gambier, Adrian	Fraunhofer IWES
10:40-11:00	ThA19.3
<i>Optimal Continuous Approximation of Basic Fractional Elements: Theory and Applications</i> , pp. 7051-7056.	
Cech, Martin	Univ. of West Bohemia in Pilsen
Schlegel, Miloš	Department of Cybernetics, Univ. of West Bohemia in Pilsen
11:00-11:20	ThA19.4
<i>Model Predictive Control of BSM1 Benchmark of Wastewater Treatment Process: A Tuning Procedure</i> , pp. 7057-7062.	
Francisco, Mario	Univ. of Salamanca
Vega, Pastora	Univ. of Salamanca
Revollar, Silvana	Univ. Simón Bolívar
11:20-11:40	ThA19.5
<i>Optimal PI Tuning Rules for Flow Loop, Based on Modified Relay Feedback Test</i> , pp. 7063-7068.	

Sayedain, Sepehr
Boiko, Igor

Univ. of Calgary
Univ. of Calgary

ThA20	Broward
Stochastic Optimal Control III (Regular Session)	
Chair: Costa, Oswaldo Luiz V.	Univ. of Sao Paulo
Co-Chair: Malikopoulos, Andreas	Oak Ridge National Lab.
10:00-10:20	ThA20.1
<i>On a Problem of Stochastic Reach-Avoid Set Characterization</i> , pp. 7069-7074.	
Mohajerin Esfahani, Peyman	Swiss Federal Inst. of Tech. Zurich (ETHZ)
Chatterjee, Debasish	Indian Inst. of Tech. Bombay
Lygeros, John	ETH Zurich
10:20-10:40	ThA20.2
<i>Reachability Probabilities in Markovian Timed Automata</i> , pp. 7075-7080.	
Chen, Taolue	Oxford Univ.
Han, Tingting	Univ. of Oxford
Katoen, Joost-Pieter	Univ. of Twente/RWTH Aachen
Mereacre, Alexandru	Univ. of Oxford
10:40-11:00	ThA20.3
<i>Optimality Conditions for a Trend-Following Strategy</i> , pp. 7081-7086.	
Kong, Hoi Tin	MetLife, Inc
Zhang, Qing	Univ. of Georgia
Yin, George	Wayne State Univ.
11:00-11:20	ThA20.4
<i>Singular Control for Discounted Markov Decision Processes in a General State Space</i> , pp. 7087-7092.	
Costa, Oswaldo Luiz V.	Univ. of Sao Paulo
Dufour, Francois	Univ. Bordeaux 1
11:20-11:40	ThA20.5
<i>Equilibrium Control Policies for Markov Chains</i> , pp. 7093-7098.	
Malikopoulos, Andreas	Oak Ridge National Lab.
ThSP1	Bonnet Creek Ballroom III & VI
Convex Relaxation of Quadratic and Quartic Optimization Problems (Semiplenary Session)	
Chair: Cassandras, Christos G.	Boston Univ.
13:30-14:20	ThSP1.1
<i>Convex Relaxation of Quadratic and Quartic Optimization Problems*</i> .	
Luo, Zhi-Quan	Univ. of Minnesota
ThSP2	Bonnet Creek Ballroom IX & XII
Monitoring of Large-Scale Nonlinear Systems by Approximation-Based Methods: Theory and Industrial Perspectives (Semiplenary Session)	
Chair: Polycarpou, Marios M.	Univ. of Cyprus
13:30-14:20	ThSP2.1
<i>Monitoring of Large-Scale Nonlinear Systems by Approximation-Based Methods: Theory and Industrial Perspectives*</i> .	
Parisini, Thomas	Imperial Coll. & Univ. of Trieste
ThB01	Orange
Electrical Power Systems I (Regular Session)	
Chair: Hiskens, Ian A.	Univ. of Michigan
Co-Chair: Dörfler, Florian	Univ. of California at Santa Barbara
14:30-14:50	ThB01.1
<i>Topological Equivalence of a Structure-Preserving Power Network Model and a Non-Uniform Kuramoto Model of Coupled</i>	

<i>Oscillators</i> , pp. 7099-7104.		
Dörfler, Florian	Univ. of California at Santa Barbara	
Bullo, Francesco	Univ. California at Santa Barbara	
14:50-15:10		ThB01.2
<i>A Stable Finite Horizon Model Predictive Control for Power System Voltage Collapse Prevention</i> , pp. 7105-7110.		
Gong, Bo	Siemens Energy USA, PTI	
Hiskens, Ian A.	Univ. of Michigan	
15:10-15:30		ThB01.3
<i>Stochastic MPC for Real-Time Market-Based Optimal Power Dispatch</i> , pp. 7111-7116.		
Patrinos, Panagiotis	IMT Inst. for Advanced Studies Lucca	
Trimboli, Sergio	Univ. of Trento	
Bemporad, Alberto	IMT Inst. for Advanced Studies Lucca	
15:30-15:50		ThB01.4
<i>An Iterative SVD-Tangential Interpolation Method for Medium-Scale MIMO Systems Approximation with Application on Flexible Aircraft</i> , pp. 7117-7122.		
Poussot-Vassal, Charles	ONERA	
15:50-16:10		ThB01.5
<i>Distributed Control for Optimal Economic Dispatch of Power Generators: The Heterogenous Case</i> , pp. 7123-7128.		
Mudumbai, Raghuraman	Univ. of Iowa	
Dasgupta, Soura	Univ. of Iowa	
Cho, Brian	Univ. of California, Davis	
ThB02		Dixie
Algebraic/Geometric Methods II (Regular Session)		
Chair: Respondek, Witold	INSA de Rouen	
Co-Chair: Bonnabel, Silvere	Mines ParisTech	
14:30-14:50		ThB02.1
<i>Equivalence and Equivariants of Mechanical Control Systems</i> , pp. 7129-7134.		
Respondek, Witold	INSA de Rouen	
Ricardo, Sandra	UTAD	
14:50-15:10		ThB02.2
<i>A Modified Design for the NonLinear Benchmark Problem with a Stability Proof</i> , pp. 7135-7140.		
Hexner, Gyorgy	RAFAEL, Haifa ISRAEL	
15:10-15:30		ThB02.3
<i>A Gradient Method for Geodesic Data Fitting on Some Symmetric Riemannian Manifolds</i> , pp. 7141-7146.		
Rentmeesters, Quentin	Univ. catholique de Louvain	
15:30-15:50		ThB02.4
<i>Contraction and Observer Design on Cones</i> , pp. 7147-7151.		
Bonnabel, Silvere	Mines ParisTech	
Astolfi, Alessandro	Imperial Coll. & Univ. of Rome	
Sepulchre, Rodolphe J.	Univ. de Liege	
15:50-16:10		ThB02.5
<i>An SOS-QE Approach to Nonlinear Gain Analysis</i> , pp. 7152-7157.		
Ichihara, Hiroyuki	Meiji Univ.	
Anai, Hirokazu	Fujitsu Lab. Ltd / Kyushu Univ.	
ThB03		Columbia
Model/Controller Reduction I (Regular Session)		
Chair: Mutsaers, Mark	Eindhoven Univ. of Tech.	
Co-Chair: Nijmeijer, Hendrik	Eindhoven Univ. of Tech.	
14:30-14:50		ThB03.1
<i>Steady State Stability Preserving Nonlinear Model Reduction Using Sequential Convex Optimization</i> , pp. 7158-7163.		

Loehning, Martin	Univ. of Stuttgart
Hasenauer, Jan	Univ. Stuttgart
Allgower, Frank	Univ. of Stuttgart
14:50-15:10	ThB03.2
<i>Moment Matching for Linear Port Hamiltonian Systems</i> , pp. 7164-7169.	
Ionescu, Tudor C.	Imperial Coll. London
Astolfi, Alessandro	Imperial Coll. & Univ. of Rome
15:10-15:30	ThB03.3
<i>Model Reduction of Nonlinear Systems with Bounded Incremental L2 Gain</i> , pp. 7170-7175.	
Besselink, Bart	Eindhoven Univ. of Tech.
Van De Wouw, Nathan	Eindhoven Univ. of Tech.
Nijmeijer, Hendrik	Eindhoven Univ. of Tech.
15:30-15:50	ThB03.4
<i>A Model Reduction Scheme with Preserved Optimal Performance</i> , pp. 7176-7181.	
Mutsaers, Mark	Eindhoven Univ. of Tech.
Weiland, Siep	Eindhoven Univ. of Tech.
15:50-16:10	ThB03.5
<i>An Improved Algorithm for Frequency Weighted Balanced Truncation</i> , pp. 7182-7187.	
Wan Muda, Wan Mariam	Univ. of Western Australia
Sreeram, Victor	Univ. of Western Australia
lu, Herbert Ho-Ching	The Univ. of Western Australia
ThB04	Nassau
Optimization I (Regular Session)	
Chair: Bullo, Francesco	Univ. California at Santa Barbara
Co-Chair: Lasserre, Jean B.	LAAS-CNRS and Inst. of Mathematics, Univ. ofToulouse
14:30-14:50	ThB04.1
<i>Algorithms for Leader Selection in Large Dynamical Networks: Noise-Free Leaders</i> , pp. 7188-7193.	
Fardad, Makan	Syracuse Univ.
Lin, Fu	Univ. of Minnesota
Jovanovic, Mihailo	Univ. of Minnesota
14:50-15:10	ThB04.2
<i>Convex Underestimators of Polynomials</i> , pp. 7194-7199.	
Lasserre, Jean B.	LAAS-CNRS and Inst. of Mathematics, Univ. of Toulouse
Phan, Thanh Tung	LAAS-CNRS, Univ. of Toulouse
15:10-15:30	ThB04.3
<i>Output Error Identification for Multi-Input Multi-Output Systems with Bounded Disturbances</i> , pp. 7200-7205.	
Pouliquen, Mathieu	Univ. de Caen
Pigeon, Eric	ISMRA
Gehan, Olivier	ISMRA
15:30-15:50	ThB04.4
<i>Optimum Generation Units Dispatch for Fuel Consumption Minimization</i> , pp. 7206-7211.	
Han, Yi	Colorado State Univ.
Young, Peter M.	Colorado State Univ.
Zimmerle, Daniel	Colorado State Univ.
15:50-16:10	ThB04.5
<i>Hybrid Combinatorial Optimization: Sample Problems and Algorithms</i> , pp. 7212-7217.	
Srivastava, Vaibhav	Univ. of California Santa Barbara
Bullo, Francesco	Univ. California at Santa Barbara
ThB05	Taylor
Network Analysis and Control II (Regular Session)	

Chair: Hui, Qing Co-Chair: Hancock, Edward J.	Texas Tech. Univ. Univ. of Oxford
14:30-14:50	ThB05.1
<i>Convergence and Stability Analysis for Iterative Dynamics with Application in Balanced Resource Allocation: A Trajectory Distance Based Lyapunov Approach</i> , pp. 7218-7223.	
Hui, Qing	Texas Tech. Univ.
14:50-15:10	ThB05.2
<i>Online Distributed Interdependency Estimation for Critical Infrastructures</i> , pp. 7224-7229.	
Oliva, Gabriele	Univ. Roma Tre of Rome, Italy
Panzieri, Stefano	Univ. "Roma Tre"
Setola, Roberto	Univ. Campus Biomedico
15:10-15:30	ThB05.3
<i>Converging an Overlay Network to a Gradient Topology</i> , pp. 7230-7235.	
Terelius, Håkan	Royal Inst. of Tech.
Shi, Guodong	Royal Inst. of Tech.
Dowling, Jim	Swedish Inst. of Computer Science
Payberah, Amir H.	Swedish Inst. of Computer Science
Gattami, Ather	KTH - Royal Inst. of Tech.
Johansson, Karl H.	Royal Inst. of Tech.
15:30-15:50	ThB05.4
<i>Structured Sum of Squares for Networked Systems Analysis</i> , pp. 7236-7241.	
Hancock, Edward J.	Univ. of Oxford
Papachristodoulou, Antonis	Univ. of Oxford
15:50-16:10	ThB05.5
<i>Control of Connected Markov Chains. Application to Congestion Avoidance in the Internet</i> , pp. 7242-7248.	
Miller, Boris	Monash Univ.
Miller, Alexander	Inst. for Information Transmission Problems
ThB06	Jackson
Sensor Networks II (Regular Session)	
Chair: Selmic, Rastko R.	Louisiana Tech. Univ.
Co-Chair: Panayiotou, Christos	Univ. of Cyprus
14:30-14:50	ThB06.1
<i>On the Optimal Search Neighborhood in Mixed Wireless Sensor Networks</i> , pp. 7249-7254.	
Lambrou, Theofanis	Univ. of Cyprus
Panayiotou, Christos	Univ. of Cyprus
14:50-15:10	ThB06.2
<i>A Nonlinear Optimization Approach to Coverage Problem in Mobile Sensor Networks</i> , pp. 7255-7261.	
Habibi, Jalal	Concordia Univ.
Mahboubi, Hamid	Concordia Univ.
Aghdam, Amir G.	Concordia Univ.
15:10-15:30	ThB06.3
<i>Distributed Unmanned Ground Vehicle Navigation in Coordinate-Free and Localization-Free Wireless Sensor and Actuator Networks</i> , pp. 7262-7267.	
Zhang, Guyu	Louisiana Tech. Univ.
Duncan, Christian	Louisiana Tech. Univ.
Kanno, Jinko	Louisiana Tech. Univ.
Selmic, Rastko R.	Louisiana Tech. Univ.
15:30-15:50	ThB06.4
<i>A Framework for Robust Synchronization in Heterogeneous Multi-Agent Networks</i> , pp. 7268-7274.	
Lovisari, Enrico	Univ. of Padova
Jonsson, Ulf T.	Royal Inst. of Tech. (KTH)
15:50-16:10	ThB06.5

Power Allocation Policy for Distributed Estimation in Wireless Networks, pp. 7275-7280.

Matei, Ion
Baras, John S.

Univ. of Maryland
Univ. of Maryland

ThB07		Escambia
Estimation V (Regular Session)		
Chair: Mirkin, Leonid		Tech.
Co-Chair: Hwang, Inseok		Purdue Univ.
14:30-14:50		ThB07.1
<i>Near-Real-Time GPS Integer Ambiguity Resolution</i> , pp. 7281-7286.		
Chen, Anning		Univ. of California, Riverside
Zheng, Dongfang		Univ. of California, Riverside
Ramanandan, Arvind		Univ. of California, Riverside
Farrell, Jay		Univ. of California Riverside
14:50-15:10		ThB07.2
<i>L2 Signal Reconstruction with FIR and Steady-State Behavior Constraints</i> , pp. 7287-7292.		
Levinson, Yaron		Tech. – IIT
Mirkin, Leonid		Tech.
15:10-15:30		ThB07.3
<i>Stochastic Approximation Algorithm with Application to Event-Triggered Filtering</i> , pp. 7293-7298.		
Liu, Weiyi		Purdue Univ.
Hwang, Inseok		Purdue Univ.
15:30-15:50		ThB07.4
<i>Channel Estimation for Free-Space Optical Communication</i> , pp. 7299-7304.		
Komae, Arash		Univ. of Maryland Coll. Park
15:50-16:10		ThB07.5
<i>Design of Distributed Estimators Over Arbitrary Causal Networks</i> , pp. 7305-7310.		
Andalam, Satya Mohan Vamsi		Iowa State Univ.
Elia, Nicola		Iowa State Univ.
ThB08		Flagler
Optimal Control V (Regular Session)		
Chair: Holzinger, Marcus		Texas A&M Univ.
Co-Chair: Techy, Laszlo		Univ. of Washington
14:30-14:50		ThB08.1
<i>Embedded Optimal Control Problems</i> , pp. 7311-7316.		
Nordkvist, Nikolaj		Leeward Community Coll.
Crouch, Peter		Univ. of Hawaii
Bloch, Anthony M.		Univ. of Michigan
Sanyal, Amit		New Mexico State Univ.
14:50-15:10		ThB08.2
<i>Reachability Set Subspace Computation for Nonlinear Systems Using Sampling Methods</i> , pp. 7317-7324.		
Holzinger, Marcus		Texas A&M Univ.
Scheeres, Daniel		The Univ. of Colorado
15:10-15:30		ThB08.3
<i>Optimal Navigation in a Planar Time-Varying Point-Symmetric Flow-Field</i> , pp. 7325-7330.		
Techy, Laszlo		Univ. of Washington
15:30-15:50		ThB08.4
<i>Nonsmooth Approximate Maximum Principle in Optimal Control</i> , pp. 7331-7333.		
Shvartsman, Ilya		Penn State Harrisburg
Mordukhovich, Boris		Wayne State Univ.
15:50-16:10		ThB08.5

ThB09	Gilchrist
Stability of Nonlinear Systems IV (Regular Session)	
Chair: Morin, Pascal	INRIA
Co-Chair: Söffker, Dirk	Univ. of Duisburg-Essen
14:30-14:50	ThB09.1
<i>Global Stability of Uncertain Rational Nonlinear Systems with Some Positive States</i> , pp. 7337-7342.	
Trofino, Alexandre	Federal Univ. of Santa Catarina
Dezuo, Tiago J.M.	UFSC/CTC/DAS 88040-900 Florianopolis, Brazil
14:50-15:10	ThB09.2
<i>Invariance of Symmetric Convex Sets for Discrete-Time Saturated Systems</i> , pp. 7343-7348.	
Fiacchini, Mirko	LAAS-CNRS Toulouse
Tarbouriech, Sophie	LAAS-CNRS
Prieur, Christophe	Gipsa-Lab.
15:10-15:30	ThB09.3
<i>Control of Two-Steering-Wheels Vehicles with the Transverse Function Approach</i> , pp. 7349-7355.	
Morin, Pascal	INRIA
Samson, Claude	INRIA Sophia-Antipolis
15:30-15:50	ThB09.4
<i>A Data-Driven Online Stability Monitoring Method for Unknown Discrete-Time Nonlinear Systems</i> , pp. 7356-7361.	
Zhang, Fan	Univ. of Duisburg-Essen
Söffker, Dirk	Univ. of Duisburg-Essen
15:50-16:10	ThB09.5
<i>Implicit Lyapunov Control for Schrödinger Equations with Dipole and Polarizability Term</i> , pp. 7362-7367.	
Grigoriu, Andreea	Princeton Univ.
ThB10	Hamilton
Robust Adaptive Control II (Regular Session)	
Chair: De Keyser, Robin M.C.	Univ. of Gent
Co-Chair: Lee, Taeyoung	George Washington Univ.
14:30-14:50	ThB10.1
<i>Decision Rules for Information Discovery in Multi-Stage Stochastic Programming</i> , pp. 7368-7373.	
Vayanos, Phebe	Imperial Coll. London
Kuhn, Daniel	Imperial Coll. London
Rustem, Berc	Imperial Coll. London
14:50-15:10	ThB10.2
<i>Evaluation of a Propofol and Remifentanil Interaction Model for Predictive Control of Anesthesia Induction</i> , pp. 7374-7379.	
Ionescu, Clara	Ghent Univ.
De Keyser, Robin M.C.	Univ. of Gent
Struys, Michel MRF	Univ. Medical Centre of Groningen, Department of Anesthesio
15:10-15:30	ThB10.3
<i>Robust Adaptive Geometric Tracking Controls on SO(3) with an Application to the Attitude Dynamics of a Quadrotor UAV</i> , pp. 7380-7385.	
Fernando, Thilina	Florida Inst. of Tech.
Jiten Chandiramani, Jiten Chandiramani	Florida Inst. of Tech.
Lee, Taeyoung	George Washington Univ.
Gutierrez, H. M.	Florida Inst. of Tech.
15:30-15:50	ThB10.4
<i>A Scenario Approach for Estimating the Suboptimality of Linear Decision Rules in Two-Stage Robust Optimization</i> , pp. 7386-7391.	
Hadjiyiannis, Michael J.	Imperial Coll. London

Goulart, Paul J. Kuhn, Daniel	ETH Zurich Imperial Coll. London
15:50-16:10	ThB10.5
<i>Output Control for Nonlinear System with Time-Varying Delay and Stability Analysis</i> , pp. 7392-7397.	
Pyrkin, Anton Bobtsov, Alexey	Saint-Petersburg State Univ. of ITMO Saint-Petersburg State Univ. of ITMO
ThB11	Indian River
Stability of Hybrid Systems I (Regular Session)	
Chair: Marconi, Lorenzo Co-Chair: Ames, Aaron	Univ. di Bologna Texas A&M Univ.
14:30-14:50	ThB11.1
<i>Stability and Invariance Analysis of Uncertain PWA Systems Based on Linear Programming</i> , pp. 7398-7403.	
Trimboli, Sergio Rubagotti, Matteo Bemporad, Alberto	Univ. of Trento Univ. of Trento IMT Inst. for Advanced Studies Lucca
14:50-15:10	ThB11.2
<i>Control Lyapunov Functions and Stabilizability of Compact Sets for Hybrid Systems</i> , pp. 7404-7409.	
Sanfelice, Ricardo G.	Univ. of Arizona
15:10-15:30	ThB11.3
<i>Hybrid Output Regulation with Unmeasured Clock</i> , pp. 7410-7415.	
Cox, Nicholas Marconi, Lorenzo Teel, Andrew R.	Univ. of California, Santa Barbara Univ. di Bologna Univ. of California at Santa Barbara
15:30-15:50	ThB11.4
<i>Passivity-Based Controllers for a Class of Hybrid Systems with Applications to Mechanical Systems Interacting with Their Environment</i> , pp. 7416-7421.	
Naldi, Roberto Sanfelice, Ricardo G.	Univ. di Bologna Univ. of Arizona
15:50-16:10	ThB11.5
<i>Rank Deficiency and Superstability of Hybrid Systems with Application to Bipedal Robots</i> , pp. 7422-7427.	
Wendel, Eric DB Ames, Aaron	Texas A&M Univ. Texas A&M Univ.
15:50-16:10	ThB11.6
<i>Further Results on Synergistic Lyapunov Functions and Hybrid Feedback Design through Backstepping</i> , pp. 7428-7433.	
Mayhew, Christopher G. Sanfelice, Ricardo G. Teel, Andrew R.	Robert Bosch LLC Univ. of Arizona Univ. of California at Santa Barbara
ThB12	Lake
Automotive Control II (Regular Session)	
Chair: Rajamani, Rajesh Co-Chair: Gaspar, Peter	Univ. of Minnesota Computer & Automation Inst. of HAS
14:30-14:50	ThB12.1
<i>Design of Actuator Interventions in the Trajectory Tracking for Road Vehicles</i> , pp. 7434-7439.	
Nemeth, Balazs Gaspar, Peter	Computer and Automation Res. Inst. Computer & Automation Inst. of HAS
14:50-15:10	ThB12.2
<i>New Rollover Index for Detection of Tripped and Un-Tripped Rollovers</i> , pp. 7440-7445.	
Phanomchoeng, Gridsada Rajamani, Rajesh	Univ. of Minnesota Univ. of Minnesota
15:10-15:30	ThB12.3

Bias Reduction in DAE Estimators by Model Augmentation: Observability Analysis and Experimental Evaluation, pp. 7446-7451.

Höckerdal, Erik Linköping Univ.
Frisk, Erik Linköping Univ.
Eriksson, Lars Linköping Univ.

15:30-15:50 ThB12.4

Integration of Control Design and Variable Geometry Suspension Construction for Vehicle Stability Enhancement, pp. 7452-7457.

Nemeth, Balazs Computer and Automation Res. Inst.
Gaspar, Peter Computer & Automation Inst. of HAS

15:50-16:10 ThB12.5

Nonlinear Model Predictive Control for Improving Energy Recovery for Electric Vehicles During Regenerative Braking, pp. 7458-7463.

Huang, Xiaoyu Ohio State Univ.
Wang, Junmin The Ohio State Univ.

ThB13 Manatee

Aerospace III (Regular Session)

Chair: Serrani, Andrea The Ohio State Univ.
Co-Chair: Shim, David Hyunchul KAIST

14:30-14:50 ThB13.1

Robust Nonlinear Control Design for a Minimally-Actuated Flapping-Wing MAV in the Longitudinal Plane (I), pp. 7464-7469.

Serrani, Andrea The Ohio State Univ.

14:50-15:10 ThB13.2

Completely Decentralised Navigation Functions for Agents with Finite Sensing Regions with Application in Aircraft Conflict Resolution, pp. 7470-7475.

Roussos, Giannis National Tech. Univ. of Athens
Kyriakopoulos, Kostas J. National Tech. Univ. of Athens

15:10-15:30 ThB13.3

Noise Analysis in Satellite Attitude Estimation Using Angular Rate and a Single Vector Measurement, pp. 7476-7481.

Namvar, Mehrzad Sharif Univ. of Tech.
Firoozi, Dena Sharif Uniuersity of Tech.

15:30-15:50 ThB13.4

An Image Processing Algorithm for Detection and Tracking of Aerial Vehicles in Short-Range, pp. 7482-7487.

Cho, Sungwook KAIST
Huh, Sungsik KAIST
Hyong-Sik, Choi Korea Aerospace Res. Inst.
Shim, David Hyunchul KAIST

15:50-16:10 ThB13.5

Decentralized Linear Time-Varying Model Predictive Control of a Formation of Unmanned Aerial Vehicles, pp. 7488-7493.

Bemporad, Alberto IMT Inst. for Advanced Studies Lucca
Rocchi, Claudio Univ. of trento

ThB14 Sarasota

Distributed Control II (Regular Session)

Chair: Quijano, Nicanor Univ. de los Andes
Co-Chair: Fraanje, Rufus Delft Univ. of Tech.

14:30-14:50 ThB14.1

Dispatch of Distributed Generators Using a Local Replicator Equation, pp. 7494-7499.

Pantoja Bucheli, Andrés Darío Univ. de los Andes
Quijano, Nicanor Univ. de los Andes
Passino, Kevin Ohio State Univ.

14:50-15:10 ThB14.2

<i>Distributed Robust Control of Spatially Interconnected Systems with Parameter Uncertainty</i> , pp. 7500-7505.		
Huang, Huang		Beijing Inst. of Control Engineering
Wu, Qinghe		Beijing Inst. of Tech.
15:10-15:30		ThB14.3
<i>On an Operator-Pencil Approach to Distributed Control of Heterogeneous Systems</i> , pp. 7506-7511.		
Mishra, Anshuman		Univ. of Illinois at Urbana-Champaign
Dullerud, Geir E.		Univ. of Illinois, Urbana-Champaign
15:30-15:50		ThB14.4
<i>A PI Controller Based on Asymmetric Gossip Communications for Clocks Synchronization in Wireless Sensors Networks</i> , pp. 7512-7517.		
Carli, Ruggero		Univ. of Padova
D'Elia, Edoardo		Univ. of Padova
Zampieri, Sandro		Univ. di Padova
15:50-16:10		ThB14.5
<i>Square-Root H₂ and H_∞ Synthesis Algorithms for Sequentially Semi-Separable Systems</i> , pp. 7518-7523.		
Mustata, Ruxandra Ioana		Delft Univ. of Tech.
Fraanje, Rufus		Delft Univ. of Tech.
Verhaegen, Michel		Delft Univ. of Tech.
ThB15		Union
Output Feedback and Observers II (Regular Session)		
Chair: Goulart, Paul J.		ETH Zurich
Co-Chair: Sala, Antonio		Univ. Pol. de Valencia
14:30-14:50		ThB15.1
<i>Observer Design for Systems with an Energy Preserving Nonlinearity, with Application to Fluid Flow</i> , pp. 7524-7529.		
Wynn, Andrew		Imperial Coll. London
Goulart, Paul J.		ETH Zurich
14:50-15:10		ThB15.2
<i>Application of Takagi-Sugeno Observers for State Estimation in a Quadrotor</i> , pp. 7530-7535.		
Lendek, Zsofia		Delft Univ. of Tech.
Berna, Andreu		Univ. Pol. de Valencia
Guzman, Jose		Univ. Pol. de Valencia
Sala, Antonio		Univ. Pol. de Valencia
Garcia Gil, Pedro José		Univ. Pol. de Valencia
15:10-15:30		ThB15.3
<i>Observer-Based Real-Time Control for the Poloidal Beta of the Plasma Using Diamagnetic Measurements in Tokamak Fusion Reactors</i> , pp. 7536-7542.		
Sevillano, Goretti		Univ. of the Basque Country
Garrido, Izaskun		Univ. of the Basque Country
Garrido, Aitor J.		Univ. of the Basque Country
Romero, Jesús Antonio		Asociacion Euratom Ciemat
Paley, James I.		EPFL
Moret, Jean-Marc		EPFL, Ec. Pol. Fédérale de Lausanne
Coda, Stefano		EPFL
Felici, Federico		EPFL
Curchod, Loïc		Centre de Recherches en Physique des Plasmas (CRPP), Ec. Pol.
15:30-15:50		ThB15.4
<i>Dynamic Neural Network-Based Robust Observers for Second-Order Uncertain Nonlinear Systems</i> , pp. 7543-7548.		
Dinh, Huyen T.		Univ. of Florida
Kamalapurkar, Rushikesh		Univ. of Florida
Bhasin, Shubhendu		Univ. of Florida
Dixon, Warren E.		Univ. of Florida
15:50-16:10		ThB15.5
<i>An Efficient Approach to the Design of Observers for Continuous-Time Systems with Discrete-Time Measurements</i> , pp.		

7549-7554.

Cacace, Filippo
Cusimano, Valerio
Germani, Alfredo

Univ. Campus Biomedico di Roma
Univ. Campus Bio-Medico di Roma
Univ. dell'Aquila

ThB16		Palm Beach
Lyapunov Methods I (Regular Session)		
Chair: Praly, Laurent		MINES ParisTech
Co-Chair: Krstic, Miroslav		Univ. of California, San Diego
14:30-14:50		ThB16.1
<i>Adding an Integration with Prescribed Local Behavior</i> , pp. 7555-7560.		
Benachour, M. Sofiane		Univ. de Lyon
Andrieu, Vincent		Univ. de Lyon
Praly, Laurent		MINES ParisTech
Hammouri, Hassan		Univ. Claude Bernard
14:50-15:10		ThB16.2
<i>Continuous Robust Control for a Class of Uncertain MIMO Nonlinear Systems</i> , pp. 7561-7566.		
Wang, Zhao		Univ. of Central Florida
Behal, A.		Univ. of Central Florida
15:10-15:30		ThB16.3
<i>On Infinity Norms As Lyapunov Functions for Continuous-Time Dynamical Systems</i> , pp. 7567-7572.		
Lazar, Mircea		Eindhoven Univ. of Tech.
Doban, Alina Ionela		Tech. Univ. of Eindhoven
15:30-15:50		ThB16.4
<i>Static Nonsmooth Control Lyapunov Function Design Via Dynamic Extension</i> , pp. 7573-7578.		
Yamazaki, Takahiro		Hokkaido Univ.
Yamashita, Yuh		Hokkaido Univ.
Nakamura, Hisakazu		Tokyo Univ. of Science
15:50-16:10		ThB16.5
<i>A Globally Asymptotically Stable Polynomial Vector Field with No Polynomial Lyapunov Function</i> , pp. 7579-7580.		
Ahmadi, Amir Ali		MIT
Krstic, Miroslav		Univ. of California, San Diego
Parrilo, Pablo A.		Massachusetts Inst. of Tech.
ThB17		Alachua
Nonlinear Delay Systems (Regular Session)		
Chair: Niculescu, Silviu-Iulian		CNRS-Supelec
Co-Chair: Allgower, Frank		Univ. of Stuttgart
14:30-14:50		ThB17.1
<i>Nonlinear Stabilization under Sampled and Delayed Measurements, and with Inputs Subject to Delay and Zero-Order Hold</i> , pp. 7581-7586.		
Karafyllis, Iasson		Tech. Univ. of Crete
Krstic, Miroslav		Univ. of California, San Diego
14:50-15:10		ThB17.2
<i>Saturated Control of an Uncertain Euler-Lagrange System with Input Delay</i> , pp. 7587-7592.		
Fischer, Nicholas		Univ. of Florida
Dani, Ashwin		Univ. of Florida
Sharma, Nitin		Univ. of Alberta
Dixon, Warren E.		Univ. of Florida
15:10-15:30		ThB17.3
<i>Compensation of State-Dependent Input Delay for Nonlinear Systems</i> , pp. 7593-7598.		
Bekiaris-Liberis, Nikolaos		Univ. of California, San Diego
Krstic, Miroslav		Univ. of California, San Diego

15:30-15:50	ThB17.4
<i>Unconstrained Model Predictive Control and Suboptimality Estimates for Nonlinear Time-Delay Systems</i> , pp. 7599-7604.	
Reble, Marcus	Univ. of Stuttgart
Muller, Matthias Albrecht	Univ. of Stuttgart
Allgower, Frank	Univ. of Stuttgart
15:50-16:10	ThB17.5
<i>Stabilization of Nonlinear Systems with Delay in the Input through Backstepping</i> , pp. 7605-7610.	
Mazenc, Frederic	Projet INRIA DISCO
Niculescu, Silviu-Iulian	CNRS-Supelec
Bekaik, Mounir	INRIA
ThB18	Baker
Sliding Mode Control II (Regular Session)	
Chair: Moreno, Jaime A.	Univ. Nacional Autonoma de Mexico-UNAM
Co-Chair: Spurgeon, Sarah K.	Univ. of Kent
14:30-14:50	ThB18.1
<i>Sliding Mode Observer Based Control for a Class of Nonlinear Time Delay Systems with Delayed Uncertainties</i> , pp. 7611-7616.	
Yan, Xing-Gang	Univ. of Kent
Spurgeon, Sarah K.	Univ. of Kent
Orlov, Yury	CICESE
14:50-15:10	ThB18.2
<i>Sliding Mode Exponential H_∞ Synchronization of Markovian Jumping Master-Slave Systems with Time-Delays and Nonlinear Uncertainties</i> , pp. 7617-7622.	
Karimi, Hamid Reza	Univ. of Agder
15:10-15:30	ThB18.3
<i>Adaptive Twist Sliding Mode Control: A Lyapunov Design</i> , pp. 7623-7628.	
Kochalummoottil, Jose	Univ. of Alabama, Huntsville
Shtessel, Yuri B.	Univ. of Alabama at Huntsville
Moreno, Jaime A.	Univ. Nacional Autonoma de Mexico-UNAM
Fridman, Leonid M.	National Autonomous Univ. of Mexico
15:30-15:50	ThB18.4
<i>An Exact and Uniformly Convergent Arbitrary Order Differentiator</i> , pp. 7629-7634.	
Angulo Ballesteros, Marco Tulio	National Autonomous Univ. of Mexico
Moreno, Jaime A.	Univ. Nacional Autonoma de Mexico-UNAM
Fridman, Leonid M.	National Autonomous Univ. of Mexico
15:50-16:10	ThB18.5
<i>State Feedback Control against Sensor Faults for Lipschitz Nonlinear Systems Via New Sliding Mode Observer Techniques</i> , pp. 7635-7640.	
Liu, Ming	Harbin Inst. of Tech.
Zhang, Lixian	Harbin Inst. of Tech.
Shi, Peng	Univ. of Glamorgan
Karimi, Hamid Reza	Univ. of Agder
ThB19	Bay
Intelligent Systems (Regular Session)	
Chair: Yazdanpanah, M. J.	Tehran Univ.
Co-Chair: Masoud, Ahamd A.	KFUPM
14:30-14:50	ThB19.1
<i>Three-Robot Minimax Travel-Distance Optimal Formation</i> , pp. 7641-7646.	
Zhenchao, Jia	Beijing Inst. of Tech.
Ma, Hongbin	Beijing Inst. of Tech.
Yang, Chenguang	Univ. of Plymouth

Meiling, Wang	Beijing Inst. of Tech.
14:50-15:10	ThB19.2
<i>Structured Wavelet-Based Neural Network for Control of Nonlinear Systems</i> , pp. 7647-7652.	
Karami, Ali	Univ. of Tehran
Yazdanpanah, Mohammad Javad	Univ. of Tehran
15:10-15:30	ThB19.3
<i>Mixed-Initiative Nested Classification by Optimal Thresholding</i> , pp. 7653-7658.	
Hyun, Baro	Univ. of Michigan
Faied, Mariam	Fayoum Univ.
Kabamba, Pierre T.	Univ. of Michigan
Girard, Anouck	Univ. of Michigan, Ann Arbor
15:30-15:50	ThB19.4
<i>Intelligent Setting Control of Raw Meal Calcination Process</i> , pp. 7659-7664.	
Qiao, Jinghui	Northeastern Univ.
Chai, Tianyou	Northeastern Univ.
Wang, Hong	The Univ. of Manchester
15:50-16:10	ThB19.5
<i>A Harmonic Potential Field Approach for Planning Motion of a UAV in a Cluttered Environment with a Drift Field</i> , pp. 7665-7671.	
Masoud, Ahamd A.	KFUPM
ThB20	Broward
Stochastic Optimal Control IV (Regular Session)	
Chair: Feinberg, Eugene A.	SUNY at Stony Brook
Co-Chair: Hanebeck, Uwe D.	Karlsruhe Inst. of Tech. (KIT)
14:30-14:50	ThB20.1
<i>On-Line Inventory Control in Single-Echelon Systems with Time-Dependent Environment Over Multiple Periods</i> , pp. 7672-7677.	
Mao, Jianfeng	Nanyang Tech. Univ.
14:50-15:10	ThB20.2
<i>Switching on and Off the Full Capacity of an M/M/∞ Queue</i> , pp. 7678-7683.	
Feinberg, Eugene A.	SUNY at Stony Brook
Zhang, Xiaoxuan	IBM Watson Res. Center
15:10-15:30	ThB20.3
<i>Delay Optimal Server Assignment to Symmetric Parallel Queues with Random Connectivities</i> , pp. 7684-7689.	
Halabian, Hassan	Carleton Univ.
Lambadaris, Ioannis	Carleton Univ.
Lung, Chung-Horng	Carleton Univ.
15:30-15:50	ThB20.4
<i>Indexability and Whittle Index for Restless Bandit Problems Involving Reset Processes</i> , pp. 7690-7696.	
Liu, Keqin	Univ. of California at Davis
Weber, Richard	Univ. of Cambridge
Zhao, Qing	Univ. of California at Davis
15:50-16:10	ThB20.5
<i>Stochastic Nonlinear Open-Loop Feedback Control with Guaranteed Error Bounds Using Compactly Supported Wavelets</i> , pp. 7697-7702.	
Hekler, Achim	Karlsruhe Inst. of Tech.
Kiefel, Martin	Karlsruhe Inst. of Tech.
Hanebeck, Uwe D.	Karlsruhe Inst. of Tech. (KIT)
ThC01	Orange
Electrical Power Systems II (Regular Session)	
Chair: Susuki, Yoshihiko	Kyoto Univ.

Co-Chair: Tang, Ao	Cornell Univ.
16:30-16:50	ThC01.1
<i>Physical Architectures and Mathematical Models for Electric-Power Management of Multiple Homes</i> , pp. 7703-7710.	
Susuki, Yoshihiko	Kyoto Univ.
Kazaoka, Ryoya	Kyoto Univ.
Hikihara, Takashi	Kyoto Univ.
16:50-17:10	ThC01.2
<i>A Novel LQR Based Optimal Tuning Method for IMP-Based Linear Controllers of Power Electronics/Power Systems</i> , pp. 7711-7716.	
Hasanzadeh, Amin	Center for Advanced Power Systems (CAPS)
Edrington, Chris S.	Center for Advanced Power Systems (CAPS)
Mokhtari, Hossein	Sharif Univ. of Tech.
17:10-17:30	ThC01.3
<i>Power Maximization of a Closed-Orbit Kite Generator System</i> , pp. 7717-7722.	
Ahmed, Mariam	Grenoble Inst. of Tech. "Grenoble INP"
Hably, Ahmad	GiPSA-Lab.
Bacha, Seddik	G2ELab
17:30-17:50	ThC01.4
<i>Distributed Load Frequency Control of Electrical Power Networks Via Iterative Gradient Methods</i> , pp. 7723-7728.	
Namerikawa, Toru	Keio Univ.
Kato, Taichiro	Keio Univ.
17:50-18:10	ThC01.5
<i>Improving Damping of Power Networks: Power Scheduling and Impedance Adaptation</i> , pp. 7729-7734.	
Mallada, Enrique	Cornell Univ.
Tang, Kevin	Cornell Univ.
ThC02	Dixie
Algebraic/Geometric Methods III (Regular Session)	
Chair: Kotta, Ülle	Inst. of Cybernetics at TUT
Co-Chair: Skogestad, Sigurd	Norwegian Univ. of Science & Tech.
16:30-16:50	ThC02.1
<i>Minimal Realization of Nonlinear MIMO Equations in State-Space Form: Polynomial Approach</i> , pp. 7735-7740.	
Belikov, Juri	Inst. of Cybernetics at Tallinn Univ. of Tech.
Kotta, Ülle	Inst. of Cybernetics at TUT
Tonso, Maris	Inst. of Cybernetics at Tallinn Univ. of
16:50-17:10	ThC02.2
<i>An Algebraic Solution Method for the Unsteady Hamilton-Jacobi Equation</i> , pp. 7741-7746.	
Kawano, Yu	Osaka Univ.
Ohtsuka, Toshiyuki	Osaka Univ.
17:10-17:30	ThC02.3
<i>Attractive Invariant Submanifold-Based Coupling Controller Design</i> , pp. 7747-7752.	
Labisch, Daniel	Tech. Univ. Darmstadt
Konigorski, Ulrich	Tech. Univ. Darmstadt
17:30-17:50	ThC02.4
<i>Self-Optimizing Invariants in Dynamic Optimization</i> , pp. 7753-7758.	
Jäschke, Johannes	Norwegian Univ. of Science and Tech.
Fikar, Miroslav	Slovak Univ. of Tech. in Bratislava
Skogestad, Sigurd	Norwegian Univ. of Science & Tech.
17:50-18:10	ThC02.5
<i>On Casimir Functionals for Field Theories in Port-Hamiltonian Description for Control Purposes</i> , pp. 7759-7764.	
Schöberl, Markus	Johannes Kepler Univ. Linz
Siuka, Andreas	Johannes Kepler Univ.

ThC03	Columbia
Model/Controller Reduction II (Regular Session)	
Chair: Zhou, Kemin	Louisiana State Univ.
Co-Chair: Chu, Bing	Univ. of Oxford
16:30-16:50	ThC03.1
<i>Air Supply System of a PEM Fuel Cell Model: Passivity and Robust PI Control</i> , pp. 7765-7770.	
Talj, Reine	Heudiasyc, UTC
Ortega, Romeo	LSS-SUPELEC
Astolfi, Alessandro	Imperial Coll. & Univ. of Rome
16:50-17:10	ThC03.2
<i>New Approaches for H-Infinity Performance Preserving Controller Reduction</i> , pp. 7771-7776.	
Zhou, Kemin	Louisiana State Univ.
Kong, Lili	Louisiana State Univ.
17:10-17:30	ThC03.3
<i>Time-Weighted Balanced Stochastic Model Reduction</i> , pp. 7777-7781.	
Shaker, Hamidreza	Inst. FOR ENERGY Tech. AALBORG Univ.
Tahavori, Maryamsadat	Aalborg Univ.
17:30-17:50	ThC03.4
<i>A Structured Model Reduction Method for Large Scale Networks</i> , pp. 7782-7787.	
Chu, Bing	Univ. of Oxford
Duncan, Stephen	Univ. of Oxford
Papachristodoulou, Antonis	Univ. of Oxford
17:50-18:10	ThC03.5
<i>Improving Parameter Estimation Using Minimal Analytically Redundant Subsystems</i> , pp. 7788-7793.	
Garcia-Alvarez, Diego	Univ. of Valladolid
Bregon, Anibal	Univ. of Valladolid
De La Fuente, Maria Jesus	Univ. De Valladolid
Pulido, Belarmino	Univ. de Valladolid
ThC04	Nassau
Optimization II (Regular Session)	
Chair: Pao, Lucy Y.	Univ. of Colorado at Boulder
Co-Chair: Campi, M. C.	Univ. di Brescia
16:30-16:50	ThC04.1
<i>Randomized Min-Max Optimization: The Exact Risk of Multiple Cost Levels</i> , pp. 7794-7799.	
Carè, Algo	Univ. di Brescia
Garatti, Simone	Pol. Di Milano
Campi, M. C.	Univ. di Brescia
16:50-17:10	ThC04.2
<i>Simultaneous Numerical Optimization for Data Association and Parameter Estimation</i> , pp. 7800-7805.	
Damle, Anil	Univ. of Colorado at Boulder
Pao, Lucy Y.	Univ. of Colorado at Boulder
17:10-17:30	ThC04.3
<i>Scenario-Free Stochastic Programming with Polynomial Decision Rules</i> , pp. 7806-7812.	
Bampou, Dimitra	Imperial Coll. London
Kuhn, Daniel	Imperial Coll. London
17:30-17:50	ThC04.4
<i>Frequency Response Based the Derivative Component Tuning Approach</i> , pp. 7813-7818.	
Vrána, Stanislav	Czech Tech. Univ. in Prague
17:50-18:10	ThC04.5
<i>Optimal Smoothing Spline Surfaces with Constraints on Derivatives</i> , pp. 7819-7824.	
Fujioka, Hiroyuki	Fukuoka Inst. of Tech.

ThC05		Taylor
Network Analysis and Control III (Regular Session)		
Chair: Pogromsky, A. Yu.		Eindhoven Univ. of Tech.
Co-Chair: Imura, Jun-ichi		Tokyo Inst. of Tech.
16:30-16:50		ThC05.1
<i>Network Clustering: A Dynamical Systems and Saddle-Point Perspective</i> , pp. 7825-7830.		
Bürger, Mathias		Univ. of Stuttgart
Zelazo, Daniel		Univ. Stuttgart
Allgower, Frank		Univ. of Stuttgart
16:50-17:10		ThC05.2
<i>Hierarchical Decentralized Observer Design for Linearly Coupled Network Systems</i> , pp. 7831-7836.		
Ishizaki, Takayuki		Tokyo Inst. of Tech.
Sakai, Yukihiro		Tokyo Inst. of Tech.
Kashima, Kenji		Tokyo Inst. of Tech.
Imura, Jun-ichi		Tokyo Inst. of Tech.
17:10-17:30		ThC05.3
<i>Reaction-Diffusion Clustering of Single-Input Dynamical Networks</i> , pp. 7837-7842.		
Ishizaki, Takayuki		Tokyo Inst. of Tech.
Kashima, Kenji		Tokyo Inst. of Tech.
Imura, Jun-ichi		Tokyo Inst. of Tech.
Aihara, Kazuyuki		Univ. of Tokyo
17:30-17:50		ThC05.4
<i>On the Presence of Equilibrium Points in PI Control Systems with Send-On-Delta Sampling</i> , pp. 7843-7848.		
Beschi, Manuel		Univ. of Brescia
Visioli, Antonio		Univ. of Brescia
Dormido, Sebastián		UNED
Sánchez Moreno, José		UNED
17:50-18:10		ThC05.5
<i>Pattern Generation in Diffusive Networks: How Do Those Brainless Centipedes Walk?</i> , pp. 7849-7854.		
Pogromsky, A. Yu.		Eindhoven Univ. of Tech.
Kuznetsov, Nikolay		Saint-Petersburg State Univ.
Leonov, Gennady		Saint Peterburg satate Univ.
ThC06		Jackson
Sensor Networks III (Regular Session)		
Chair: Farrell, Jay		Univ. of California Riverside
Co-Chair: Vidal, Rene		Johns Hopkins Univ.
16:30-16:50		ThC06.1
<i>Average Consensus on Riemannian Manifolds with Bounded Curvature</i> , pp. 7855-7862.		
Tron, Roberto		Johns Hopkins Univ.
Afsari, Bijan	Center for Imaging Science,	Johns Hopkins Univ.
Vidal, Rene		Johns Hopkins Univ.
16:50-17:10		ThC06.2
<i>A Generalized Kalman Consensus Filter for Wide-Area Video Networks</i> , pp. 7863-7869.		
Kamal, Ahmed		Univ. of California, Riverside
Ding, Chong		Univ. of California, Riverside
Song, Bi		Univ. of California, Riverside
Farrell, Jay		Univ. of California Riverside
Roy-Chowdhury, Amit K.		Univ. of California, Riverside
17:10-17:30		ThC06.3
<i>On the Performance Limit of Sensor Localization</i> , pp. 7870-7875.		

Huang, Baoqi	Australian National Univ.
Li, Tao	Acad. of Mathematics and Systems Science, Chinese Academy of Sci
Anderson, Brian D.O.	Australian National Univ.
Yu, CHANGBIN (Brad)	The Australian National Univ.

17:30-17:50 ThC06.4

Error Probability Bounds for Balanced Binary Relay Trees, pp. 7876-7881.

Zhang, Zhenliang	Colorado State Univ.
Pezeshki, Ali	Colorado State Univ.
Moran, Bill	The Univ. of Melbourne
Howard, Stephen David	Defence Science & Tech. Organisation
Chong, Edwin K. P.	Colorado State Univ.

17:50-18:10 ThC06.5

Time Synchronization in WSNs: A Maximum Value Based Consensus Approach, pp. 7882-7887.

He, Jianping	Zhejiang Univ.
Cheng, Peng	Zhengjiang Univ.
Shi, Ling	Hong Kong Univ. of Science and Tech.
Chen, Jiming	Zhejiang Univ.

ThC07 Escambia

Filtering (Regular Session)

Chair: Mehta, Prashant G.	Univ. of Illinois, Urbana-Champaign
Co-Chair: Blom, Henk A.P.	National Aerospace Lab. NLR

16:30-16:50 ThC07.1

Practical Stability of Approximating Discrete-Time Filters with Respect to Model Mismatch Using Relative Entropy Concepts, pp. 7888-7894.

Techakesari, Onvaree	Queensland Univ. of Tech.
Ford, Jason	Queensland Univ. of Tech.
Nesic, Dragan	Univ. of Melbourne

16:50-17:10 ThC07.2

Optimal Decomposed Particle Filtering of Two Closely Spaced Gaussian Targets, pp. 7895-7901.

Blom, Henk A.P.	National Aerospace Lab. NLR & Delft Univ. of Tech.
Bloem, Edwin A.	National Aerospace Lab. NLR

17:10-17:30 ThC07.3

Homography Estimation on the Special Linear Group Based on Direct Point Correspondence, pp. 7902-7908.

Hamel, Tarek	Univ. de Nice Sophia Antipolis
Mahony, Robert	Australian National Univ.
Trumpf, Jochen	The Australian National Univ.
Morin, Pascal	INRIA
Hua, Minh-Duc	I3S UNS-CNRS

17:30-17:50 ThC07.4

Feedback Particle Filter with Mean-Field Coupling, pp. 7909-7916.

Yang, Tao	Univ. of Illinois at Urbana-Champaign
Mehta, Prashant G.	Univ. of Illinois, Urbana-Champaign
Meyn, Sean	Univ. of Illinois

17:50-18:10 ThC07.5

A State Observer Approach to Filter Stochastic Nonlinear Differential Systems, pp. 7917-7922.

Cacace, Filippo	Univ. Campus Biomedico di Roma
Germani, Alfredo	Univ. dell'Aquila
Palumbo, Pasquale	IASI-CNR

ThC08 Flagler

Optimal Control VI (Regular Session)

Chair: Nikovski, Daniel	Mitsubishi Electric Res. Lab.
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Co-Chair: Komaee, Arash	Univ. of Maryland Coll. Park
16:30-16:50	ThC08.1
<i>Multiclass Job Scheduling on a Single Machine: Updating Optimal Control Strategies When Due-Dates Change in Real-Time</i> , pp. 7923-7930.	
Giglio, Davide	Univ. of Genova
Minciardi, Riccardo	Univ. of Genova
16:50-17:10	ThC08.2
<i>An Active Set Solver for Input-Constrained Robust Receding Horizon Control</i> , pp. 7931-7936.	
Buerger, Johannes	Univ. of Oxford
Cannon, Mark	Univ. of Oxford
Kouvaritakis, Basil	Oxford Univ.
17:10-17:30	ThC08.3
<i>Oil Reservoir Production Optimization Using Optimal Control</i> , pp. 7937-7943.	
Völcker, Carsten	Tech. Univ. of Denmark
Jørgensen, John Bagterp	Tech. Univ. of Denmark
17:30-17:50	ThC08.4
<i>Construction of Embedded Markov Decision Processes for Optimal Control of Non-Linear Systems with Continuous State Spaces</i> , pp. 7944-7949.	
Nikovski, Daniel	Mitsubishi Electric Res. Lab.
Esenher, Alan	Mitsubishi Electric Res. Lab.
17:50-18:10	ThC08.5
<i>Magnetic Steering of a Distributed Ferrofluid Spot towards a Deep Target with Minimal Spreading</i> , pp. 7950-7955.	
Komaee, Arash	Univ. of Maryland Coll. Park
Shapiro, Benjamin	Univ. of Maryland
ThC09	Gilchrist
Feedback Linearization (Regular Session)	
Chair: Muellhaupt, Philippe	Ec. Pol. Fed. de Lausanne
Co-Chair: Edwards, Christopher	Univ. of Leicester
16:30-16:50	ThC09.1
<i>Energy-Efficient Tracking Control of Pneumatic Cylinders</i> , pp. 7956-7961.	
Wang, Jihong	Univ. of Warwick
Gordon, Tim	Univ. of Michigan
16:50-17:10	ThC09.2
<i>Flatness Based Velocity Tracking Control of a Vehicle on a Roller Dynamometer Using a Robotic Driver</i> , pp. 7962-7967.	
Sailer, Stefan	Univ. Ulm
Buchholz, Michael	Univ. Ulm
Dietmayer, Klaus Christian Jürgen	Univ. of Ulm
17:10-17:30	ThC09.3
<i>Robust Feedback Linearization Using Higher Order Sliding Mode Observer</i> , pp. 7968-7973.	
Iqbal, Sohail	Univ. of Leicester
Edwards, Christopher	Univ. of Leicester
Bhatti, Aamer Iqbal	Muhammad Ali Jinnah Univ.
17:30-17:50	ThC09.4
<i>Path Following for a Car-Like Robot Using Transverse Feedback Linearization and Tangential Dynamic Extension</i> , pp. 7974-7979.	
Akhhtar, Adeel	Univ. of Waterloo
Nielsen, Christopher	Univ. of Waterloo
17:50-18:10	ThC09.5
<i>A Quotient Method for Designing Nonlinear Controllers</i> , pp. 7980-7987.	
Sudarsandhari Shibani, Willson	Ec. Pol. Federale de Lausanne
Muellhaupt, Philippe	Ec. Pol. Fed. de Lausanne
Bonvin, Dominique	EPFL

ThC10	Hamilton
Adaptive Control of Mechatronics Systems (Regular Session)	
Chair: Montazeri, Allahyar	Fraunhofer Inst. for Digital Media Tech.
Co-Chair: Hackl, Christoph M.	Tech. Univ. of Munich
16:30-16:50	ThC10.1
<i>Robust Adaptive Failure Compensation of Hysteretic Actuators for Parametric Strict Feedback Systems</i> , pp. 7988-7993.	
Cai, Jianping	State Key Lab. of Industrial Control Technology, Inst. o
Wen, Changyun	Nanyang Tech. Univ.
Su, Hongye	Zhejiang Univ.
Liu, Zhitao	Zhejiang Univ.
Liu, Xiangbin	Zhejiang Univ.
16:50-17:10	ThC10.2
<i>Developing an IIR Robust Adaptive Algorithm in the Modified Filtered-X RLS Form for Active Noise and Vibration Control Systems</i> , pp. 7994-7999.	
Montazeri, Allahyar	Fraunhofer Inst. for Digital Media Tech.
Reger, Johann	TU Ilmenau
17:10-17:30	ThC10.3
<i>Funnel Control in Mechatronics: An Overview</i> , pp. 8000-8007.	
Hackl, Christoph M.	Tech. Univ. of Munich
Hofmann, Andreas G.	Inst. for Power Electronics and Electrical Drives (ISEA) of
Kennel, Ralph	Tech. Univ. München
17:30-17:50	ThC10.4
<i>A Numerical Study on Controlling a Nonlinear Multilink Arm Using a Retrospective Cost Model Reference Adaptive Controller</i> , pp. 8008-8013.	
Isaacs, Matthew	Univ. of Kentucky
Hoagg, Jesse B.	Univ. of Kentucky
Morozov, Alexey	Univ. of Michigan
Bernstein, Dennis S.	Univ. of Michigan
17:50-18:10	ThC10.5
<i>A Nonlinear Active Noise Control Scheme with On-Line Model Structure Selection</i> , pp. 8014-8019.	
Delvecchio, Diego	Pol. di Milano
Piroddi, Luigi	Pol. di Milano
ThC11	Indian River
Stability of Hybrid Systems II (Regular Session)	
Chair: Teel, Andrew R.	Univ. of California at Santa Barbara
Co-Chair: Lee, Ji-Woong	Pennsylvania State Univ.
16:30-16:50	ThC11.1
<i>Finite-State Simulations and Bisimulations for Discrete-Time Piecewise Affine Systems</i> , pp. 8020-8025.	
Mirzazad Barijough, Sanam	Pennsylvania State Univ.
Lee, Ji-Woong	Pennsylvania State Univ.
16:50-17:10	ThC11.2
<i>Input-Output Finite-Time Stability and Stabilization of Stochastic Markovian Jump Systems</i> , pp. 8026-8031.	
Ma, Hongji	Beijing Univ. of Aeronautics and Astronautics
Jia, Yingmin	Beihang Univ.
17:10-17:30	ThC11.3
<i>Stabilization of Switched Linear Stochastic Dynamical Systems under Limited Mode Information</i> , pp. 8032-8037.	
Cetinkaya, Ahmet	Tokyo Inst. of Tech.
Hayakawa, Tomohisa	Tokyo Inst. of Tech.
17:30-17:50	ThC11.4
<i>Novel Results in Averaging Analysis of Singularly Perturbed Hybrid Systems</i> , pp. 8038-8043.	
Wang, Wei	The Univ. of Melbourne
Teel, Andrew R.	Univ. of California at Santa Barbara

Nesic, Dragan	Univ. of Melbourne
17:50-18:10	ThC11.5
<i>Semistability of Switched Linear Systems with Applications to Distributed Sensor Networks: A Generating Function Approach</i> , pp. 8044-8049.	
Shen, Jinglai	Univ. of Maryland Baltimore County
Hu, Jianghai	Purdue Univ.
Hui, Qing	Texas Tech. Univ.
ThC12	Lake
Automotive Control III (Regular Session)	
Chair: Del Re, Luigi	Johannes Kepler Univ. Linz
Co-Chair: Wang, Junmin	The Ohio State Univ.
16:30-16:50	ThC12.1
<i>Approximate Optimal Control of Internal Combustion Engine Test Benches</i> , pp. 8050-8055.	
Passenbrunner, Thomas Ernst	Johannes Kepler Univ.
Sassano, Mario	Imperial Coll. London
Del Re, Luigi	Johannes Kepler Univ. Linz
16:50-17:10	ThC12.2
<i>ISS-Based Vehicle Yaw Stability Controller Design in Backstepping Framework</i> , pp. 8056-8061.	
Zhou, Hongliang	Harbin Inst. of Tech.
Liu, Zhiyuan	Harbin Inst. of Tech.
Chen, Hong	Jilin Univ. Campus NanLing
17:10-17:30	ThC12.3
<i>An Adaptive Energy-Efficient Control Allocation on Planar Motion Control of Electric Ground Vehicles</i> , pp. 8062-8067.	
Chen, Yan	Ohio State Univ.
Wang, Junmin	The Ohio State Univ.
17:30-17:50	ThC12.4
<i>Design and Analysis of an Image-Based ACC Controller</i> , pp. 8068-8075.	
Seyffarth, Torsten	BMW Group
17:50-18:10	ThC12.5
<i>ABS + Active Suspension Control Via Sliding Mode and Linear Geometric Methods for Disturbance Attenuation</i> , pp. 8076-8081.	
Sánchez-Torres, Juan Diego	CINVESTAV-IPN GDL
Loukianov, Alexander G.	CINVESTAV IPN GDI
Ruiz-Leon, Javier	CINVESTAV-Guadalajara
Rivera, Jorge	Univ. de Guadalajara
ThC13	Manatee
Aerospace IV (Regular Session)	
Chair: Notarstefano, Giuseppe	Univ. of Lecce
Co-Chair: Sun, Dengfeng	Purdue Univ.
16:30-16:50	ThC13.1
<i>Position Control of VTOL UAVs Using IMU and GPS Measurements</i> , pp. 8082-8087.	
Roberts, Andrew	Univ. of Western Ontario
Tayebi, Abdelhamid	Lakehead Univ.
16:50-17:10	ThC13.2
<i>On the Attitude Estimation of Accelerating Rigid-Bodies Using GPS and IMU Measurements</i> , pp. 8088-8093.	
Roberts, Andrew	Univ. of Western Ontario
Tayebi, Abdelhamid	Lakehead Univ.
17:10-17:30	ThC13.3
<i>Total Unimodularity and Degeneracy-Aware Dantzig-Wolfe Decomposition for Large Capacity Cell Transmission Model</i> , pp. 8094-8099.	
Wei, Peng	Purdue Univ.

Sun, Dengfeng	Purdue Univ.
17:30-17:50	ThC13.4
<i>Analysis of a Retro-PN Guidance Law</i> , pp. 8100-8105.	
Ghosh, Satadal	Indian Inst. of Science
Ghose, Debasish	Indian Inst. of Science
Raha, Soumyendu	Indian Inst. of Science
17:50-18:10	ThC13.5
<i>Dynamics Exploration and Aggressive Maneuvering of a Longitudinal Vectored Thrust VTOL Aircraft</i> , pp. 8106-8111.	
Russo, Enrico	UNILE
Notarstefano, Giuseppe	Univ. of Lecce
Hauser, John	Univ. of Colorado at Boulder
ThC14	Sarasota
Distributed Control III (Regular Session)	
Chair: Stursberg, Olaf	Univ. of Kassel
Co-Chair: Alamir, Mazen	CNRS
16:30-16:50	ThC14.1
<i>Optimized Distributed Control and Network Topology Design for Interconnected Systems</i> , pp. 8112-8117.	
Gross, Dominic	Univ. of Kassel
Stursberg, Olaf	Univ. of Kassel
16:50-17:10	ThC14.2
<i>Distributed Constrained Model Predictive Control Based on Bundle Method for Building Energy Management</i> , pp. 8118-8124.	
Lamoudi, Mohamed Yacine	Schneider-Electric Industries, GIPSA-Lab.
Alamir, Mazen	CNRS
Béguery, Patrick	Schneider-Electric Industries
17:10-17:30	ThC14.3
<i>Model Predictive Control of Nonlinear Singularly Perturbed Systems: Application to a Large-Scale Process Network</i> , pp. 8125-8132.	
Chen, Xianzhong	Univ. of California, Los Angeles
Heidarinejad, Mohsen	UCLA
Liu, Jinfeng	Univ. of California, Los Angeles
Muñoz de la Peña, David	Univ. de Sevilla
Christofides, Panagiotis D.	Univ. of California at Los Angeles
17:30-17:50	ThC14.4
<i>A Liveliness Analysis of a Distributed Constrained Coordination Strategy for Multi-Agent Linear Systems</i> , pp. 8133-8138.	
Casavola, Alessandro	Univ. Della Calabria
Garone, Emanuele	Univ. Libre de Bruxelles
Tedesco, Francesco	Univ. della Calabria
17:50-18:10	ThC14.5
<i>An Output Feedback Distributed Predictive Control Algorithm</i> , pp. 8139-8144.	
Farina, Marcello	Pol. di Milano
Scattolini, Riccardo	Pol. di Milano
ThC15	Union
Output Feedback and Observers III (Regular Session)	
Chair: Batista, Pedro	Inst. Superior Técnico
Co-Chair: Lamnabhi-Lagarrigue, Françoise	CNRS and EECI
16:30-16:50	ThC15.1
<i>Updating the Gain of Global Finite-Time High Gain Observers</i> , pp. 8145-8150.	
Burlion, Laurent	Onera
Ahmed-Ali, Tarek	GREYC CNRS
Lamnabhi-Lagarrigue, Françoise	CNRS and EECI
16:50-17:10	ThC15.2

Globally Asymptotically Stable Filters for Source Localization and Navigation Aided by Direction Measurements, pp. 8151-8156.

Batista, Pedro Inst. Superior Técnico
Silvestre, Carlos Inst. Superior Técnico
Oliveira, Paulo Jorge Inst. Superior Técnico

17:10-17:30 ThC15.3

Stabilization of Nonlinear Uncertain Systems Based on Interval Observers, pp. 8157-8162.

Efimov, Denis Inst. for Problems of Mechanical Eng.
Raïssi, Tarek Univ. Bordeaux 1
Zolghadri, Ali Univ. Bordeaux I

17:30-17:50 ThC15.4

Sampled-Data Output Feedback Control of a Class of Nonlinear Systems, pp. 8163-8168.

Zhang, Jian Univ. of Electronic Science and Tech. of China
Xu, Hongbing Univ. of Electronic Science and Tech. of China
Peng, Chao Univ. of Electronic Science and Tech. of China

17:50-18:10 ThC15.5

Observer Design on the Special Euclidean Group $SE(3)$, pp. 8169-8175.

Hua, Minh-Duc I3S UNS-CNRS
Zamani, Mohammad The Australian National Univ.
Trumpf, Jochen The Australian National Univ.
Mahony, Robert Australian National Univ.
Hamel, Tarek Univ. de Nice Sophia Antipolis

ThC16 Palm Beach

Lyapunov Methods II (Regular Session)

Chair: Fradkov, Alexander Inst. for Problems of Mech. Eng.
Co-Chair: Marchand, Nicolas Gispa-Lab.

16:30-16:50 ThC16.1

Local Performance Analysis of Uncertain Polynomial Systems with Applications to Actuator Saturation, pp. 8176-8181.

Chakraborty, Abhijit Univ. of Minnesota
Seiler, Peter Univ. of Minnesota
Balas, Gary J. Univ. of Minnesota

16:50-17:10 ThC16.2

Stabilizability of Constrained Uncertain Linear Systems Via Smooth Control Lyapunov R-Functions, pp. 8182-8187.

Balestrino, Aldo Univ. di Pisa
Caiti, Andrea Univ. of Pisa
Grammatico, Sergio Univ. of Pisa

17:10-17:30 ThC16.3

Synchronization of Networks of Linear Systems by Static Output Feedback, pp. 8188-8192.

Fradkov, Alexander Inst. for Problems of Mech. Eng.
Junussov, Ibragim Saint-Petersburg State Univ.

17:30-17:50 ThC16.4

Design of Strict Control-Lyapunov Functions for Quantum Systems with QND Measurements, pp. 8193-8198.

Amini, Hadis Mines-ParisTech
Rouchon, Pierre Mines ParisTech
Mirrahimi, Mazyar INRIA Paris-Rocquencourt

17:50-18:10 ThC16.5

A General Formula for the Stabilization of Event-Based Controlled Systems, pp. 8199-8204.

Marchand, Nicolas Gispa-Lab.
Durand, Sylvain INRIA, GIPSA-Lab. Univ. of Grenoble
Guerrero Castellanos, Jose Fermi Faculty of Electronics, Autonomous Univ. of Puebla, BUAP,

ThC17 Alachua

H Infinity Control (Regular Session)

Chair: Gahinet, Pascal M.	The MathWorks, Inc.
Co-Chair: Kojima, Akira	Tokyo Metropolitan Univ.
16:30-16:50	ThC17.1
<i>Decentralized and Fixed-Structure H-Infinity Control in MATLAB</i> , pp. 8205-8210.	
Gahinet, Pascal M.	The MathWorks, Inc.
Apkarian, Pierre	ONERA & Mathematics Inst. Univ. Paul Sabatier
16:50-17:10	ThC17.2
<i>A Generalized Solution of H-Infinity Control Problems for Preview and Delayed Systems</i> , pp. 8211-8218.	
Kojima, Akira	Tokyo Metropolitan Univ.
17:10-17:30	ThC17.3
<i>A Partially Augmented Lagrangian Method for Low Order H-Infinity Controller Synthesis Using Rational Constraints</i> , pp. 8219-8224.	
Ankelhed, Daniel	Linköping Univ.
Helmersson, Anders	Linköpings Univ.
Hansson, Anders	Linkoping Univ.
17:30-17:50	ThC17.4
<i>Robust H-Infinity Filter Design for Polytopic Linear Discrete-Time Delay Systems Via LMIs and Polynomial Matrices</i> , pp. 8225-8230.	
Lacerda, Márcio J.	Univ. of Campinas, Brazil
Leite, Valter J. S.	CEFET/MG - Campus Div.
Oliveira, Ricardo C. L. F.	Univ. of Campinas - UNICAMP
Peres, Pedro L. D.	Univ. of Campinas
17:50-18:10	ThC17.5
<i>On Computation of H-Infinity Norm for Commensurate Fractional Order Systems</i> , pp. 8231-8236.	
Fadiga, Lamine	Univ. of Bordeaux 1
Farges, Christophe	Univ. of Bordeaux
Sabatier, Jocelyn	LAPS - Bordeaux 1 Univ.
Moze, Mathieu	Univ. Bordeaux 1

ThC18

Baker

Sliding Mode Control III (Regular Session)

Chair: Shtessel, Yuri B.	Univ. of Alabama at Huntsville
Co-Chair: Loukianov, Alexander G.	CINVESTAV IPN GDI
16:30-16:50	ThC18.1
<i>Stabilization of Discrete-Time Linear Systems with Saturating Actuators Using Sliding Modes: Application to a Twin-Rotor System</i> , pp. 8237-8242.	
Corradini, Maria Letizia	Univ. di Camerino
Cristofaro, Andrea	Univ. of Camerino
Orlando, Giuseppe	Univ. Pol. delle Marche
16:50-17:10	ThC18.2
<i>Force Feedback Control Based on VGSTA for Single Track Riding Simulator</i> , pp. 8243-8248.	
Nehaoua, Lamri	Evry Univ.
Arioui, Hichem	Evry Val d'Essonne Univ.
Fridman, Leonid M.	National Autonomous Univ. of Mexico
17:10-17:30	ThC18.3
<i>Sliding Mode Block Control Regulation of the Pendubot</i> , pp. 8249-8254.	
Serrano-Heredia, Jorge	CINVESTAV IPN Unidad Guadalajara
Loukianov, Alexander G.	CINVESTAV IPN GDI
Bayro-Corrochano, Eduardo Jose	Centro de Investigacion y de Estudios Avanzados del I.P.N. C
17:30-17:50	ThC18.4
<i>Hybrid Vehicle Stability System Using a HOSM Control</i> , pp. 8255-8260.	
Ferreira de Loza, Alejandra	LAMIH, UVHC
Delprat, Sebastien	Univ. of Valenciennes

17:50-18:10	ThC18.5
<i>PEM Fuel Cell/ DC-DC Boost Power Converter System Control Via Traditional and Higher Order Sliding Modes</i> , pp. 8261-8266.	
Shtessel, Yuri B.	Univ. of Alabama at Huntsville
Ashok, Roshini S.	Univ. of Alabama in Huntsville

ThC19	Bay
Fuzzy Systems (Regular Session)	

Chair: Tovar, Julio César	CINVESTAV-IPN
Co-Chair: Gao, Huijun	Harbin Inst. of Tech.

16:30-16:50	ThC19.1
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<i>Modeling Via On-Line Clustering and Fuzzy Support Vector Machines for Nonlinear System</i> , pp. 8267-8272.	
Tovar, Julio César	ESIME-ZACATENCO
Yu, Wen	CINVESTAV-IPN
Ortiz, Floriberto	IPN
Mariaca, Carlos Román	ESIME- Zacatenco
Rubio, Jose de Jesus	Inst. Pol. Nacional - ESIME Azcapotzalco

16:50-17:10	ThC19.2
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<i>Evidential Evolving Gustafsson-Kessel Algorithm (E2GK) and Its Application to PRONOSTIA's Data Streams Partitioning</i> , pp. 8273-8278.	
Serir, Lisa	FEMTO-ST
Ramasso, Emmanuel	FEMTO-ST
Nectoux, Patrick	FEMTO-ST / AS2M
Bauer, Olivier	FEMTO-ST / AS2M
Zerhouni, Nouredine	Univ. of Besançon

17:10-17:30	ThC19.3
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<i>Stability and Stabilization of Positive Takagi-Sugeno Fuzzy Continuous Systems with Delay</i> , pp. 8279-8284.	
Oubah, Rkia	Univ. Cadi Ayyad
Benzaouia, Abdellah	Faculty of Science Semlalia
El Hajjaji, Ahmed	Univ. de Picardie-Jules Verne
Tadeo, Fernando	Univ. of Valladolid Q4718001C

17:30-17:50	ThC19.4
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<i>Stability and Stabilization of T-S Fuzzy Systems with Time-Varying Delay: An Input-Output Approach</i> , pp. 8285-8290.	
Zhao, Lin	Harbin Inst. of Tech.
Gao, Huijun	Harbin Inst. of Tech.
Shi, Peng	Univ. of Glamorgan

17:50-18:10	ThC19.5
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<i>Adaptive Fuzzy and Sliding-Mode Control of a Robot Manipulator with Varying Payload</i> , pp. 8291-8296.	
Beyhan, Selami	Ege Univ.
Lendek, Zsofia	Delft Univ. of Tech.
Babuska, R.	Delft Univ. of Tech.
Wisse, Martijn	Tu Delft
Alci, Musa	Ege Univ.

ThC20	
Sampled Data Control (Regular Session)	

Chair: Rodrigues, Luis	Concordia Univ.
Co-Chair: Mizumoto, Ikuro	Kumamoto Univ.

16:30-16:50	ThC20.1
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<i>Fast-Rate Adaptive Output Feedback Control with Adaptive Output Estimator for Non-Uniformly Sampled Multirate Systems</i> , pp. 8297-8303.	
Mizumoto, Ikuro	Kumamoto Univ.
Fujimoto, Yotaro	Kumamoto Univ.

16:50-17:10	ThC20.2
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Limited-Thrust Relative Position Holding for Adjacent Spacecraft with Thruster Nonlinearity, pp. 8304-8308.

Yang, Xuebo	Harbin Inst. of Tech.
Wang, Wei	Dalian Univ. of Tech.
Gao, Huijun	Harbin Inst. of Tech.

17:10-17:30

ThC20.3

Using Discrete-Time Controller to Globally Stabilize a Class of Feedforward Nonlinear Systems, pp. 8309-8314.

Du, Haibo	Southeast Univ.
Qian, Chunjiang	Univ. of Texas at San Antonio
Li, Shihua	Southeast Univ.
Yang, Shizhong	Univ. of Texas at San Antonio

17:30-17:50

ThC20.4

Asymptotic Stability of Piecewise Affine Systems with Sampled-Data Piecewise Linear Controllers, pp. 8315-8320.

Moarref, Miad	Concordia Univ.
Rodrigues, Luis	Concordia Univ.

17:50-18:10

ThC20.5

Stabilizing a Switched Linear System by Sampled-Data Quantized Feedback, pp. 8321-8326.

Liberzon, Daniel	Univ. of Illinois, Urbana-Champaign
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