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Co-Chair: Spong, Mark W.	Univ. of Texas at Dallas
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Anderson, Brian D.O.	Australian National Univ.
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Chair: Demetriou, Michael A.	Worcester Pol. Inst.
Co-Chair: Armaou, Antonios	The Pennsylvania State Univ.
Organizer: Demetriou, Michael A.	Worcester Pol. Inst.
Organizer: Armaou, Antonios	The Pennsylvania State Univ.
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Tricaud, Christophe	Utah State Univ.
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McKee, Mac	Utah State Univ.
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Bonnet, Catherine	Inria Rocquencourt
Ozby, Hitay	Bilkent Univ.
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Co-Chair: Tatlicioglu, Enver	Izmir Inst. of Tech.
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Bergamasco, Marco	Pol. di Milano
Piroddi, Luigi	Pol. di Milano
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Johnson, Eric N.	Georgia Inst. of Tech.
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Meller, Michal Stanislaw	Gdansk Tech. Univ. Faculty of Electronics,
Niedzwiecki, Maciej	Tech. Univ. of Gdansk
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Han, Zhuo

Yale Univ.

Narendra, Kumpati S.

Yale Univ.

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Sugimoto, Kenji

Nara Inst. of Science and Tech.

Noguchi, Makoto

Nara Inst. of Science and Tech.

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Chair: Shtessel, Yuri B.

Univ. of Alabama at Huntsville

Co-Chair: Fridman, Leonid M.

National Autonomous Univ.

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Davila Montoya, Jorge Angel

National Pol. Inst. (Inst. Pol. Nacional)

Poznyak, Alexander S.

CINVESTAV-IPN

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Galicia, Marcos Israel

CINVESTAV Unidad Guadalajara

Loukianov, Alexander G.

CINVESTAV IPN GDI

Rivera, Jorge

Univ. de Guadalajara

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Alwi, Halim

Univ. of Leicester

Edwards, Christopher

Univ. of Leicester

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Tech. Univ. of Lodz

Michalek, Maciej

Poznan Univ. of Tech.

Pazderski, Dariusz

Poznan Univ. of Tech.

Bartoszewicz, Andrzej

Tech. Univ. of Lodz

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Yan, Xinggang

Univ. of Kent

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Univ. of Kent

Edwards, Christopher

Univ. of Leicester

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Cruz-Zavala, Emmanuel

Univ. Nacional Autonoma de Mexico

Moreno, Jaime A.

Univ. Nacional Autonoma de Mexico-UNAM

Fridman, Leonid M.

National Autonomous Univ.

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Chair: Beard, Randy

Brigham Young Univ.

Co-Chair: Broucke, Mireille E.

Univ. of Toronto

10:00-10:20

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Rotkowitz, Michael C.

The Univ. of Melbourne

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Missouri Univ. of Science and Tech.

Jagannathan, Sarangapani

Missouri Univ. of Science & Tech.

Crow, Mariesa

Univ. of Missouri-Rolla

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Li, Yuping

Delft Univ. of Tech. Netherlands

De Schutter, Bart

Delft Univ. of Tech.

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Cenedese, Angelo

Univ. of Padova

Cerruti, Federico

Univ. of Padova

Fabbro, Mirko

Univ. of Padova

Masiero, Chiara

Univ. of Padova

Schenato, Luca

Univ. of Padova

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Swigart, John

Stanford Univ.

Lall, Sanjay

Stanford Univ.

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Krstic, Miroslav		Univ. of California at San Diego
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Leite, Valter J. S.		CEFET/MG - Campus Div.
Caldeira, André F		PPGEL / CEFET-MG
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Lazar, Mircea		Eindhoven Univ. of Tech.
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Jarlebring, Elias		K.U. Leuven
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Michiels, Wim		K.U. Leuven
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Ray, Goshaidas		I.I.T
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Allgower, Frank		Univ. of Stuttgart
<hr/>		
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Chair: Chakraborty, Aranya		Texas Tech. Univ.
Co-Chair: Chow, Joe H.		Rensselaer Pol. Inst.
Organizer: Chakraborty, Aranya		Texas Tech. Univ.
Organizer: Chow, Joe H.		Rensselaer Pol. Inst.
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Chow, Joe H.		Rensselaer Pol. Inst.
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Tomasgard, Asgeir		Norwegian Univ. of Science and Tech. (NTNU)
Barton, Paul		MIT
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Kiani, Arman		Tech. Univ. of Munich
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von Jouanne, Annette R.		Oregon State Univ.
Bistrika, Alexander		Oregon State Univ.
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Co-Chair: Caines, Peter E.		McGill Univ.
Organizer: Pavel, Lacra		Univ. of Toronto
Organizer: Alpcan, Tansu		Tech. Univ. of Berlin
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Tembine, Hamidou		CNRS LSS SUPELEC
Basar, Tamer		Univ. of Illinois, Urbana-Champaign
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Nedich, Angelia		Univ. of Illinois, Urbana-Champaign
Shanbhag, Uday V.		Univ. of Illinois, Urbana-Champaign
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Caines, Peter E.		McGill Univ.
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Ozdaglar, Asuman		MIT
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Marden, Jason		Univ. of Colorado at Boulder
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Belta, Calin		Boston Univ.
Cassandras, Christos G.		Boston Univ.
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Hua, Minh-Duc		I3S-UNSA CNRS
Rifad, Hala		UNSA-CNRS
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Ferrara, Antonella		Univ. of Pavia
Garonzi, Alessandro		Univ. of Pavia
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Park, Hae-Won		Univ. of Michigan
Poulakakis, Ioannis		Princeton Univ.
Grizzle, Jessy W.		Univ. of Michigan
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De Luca, Alessandro		Univ. di Roma "La Sapienza"
Flacco, Fabrizio		Univ. di Roma "La Sapienza"

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Co-Chair: Peñarrocha, Ignacio		Univ. Jaume I de Castelló
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Borchers, Steffen		Otto-von-Guericke Univ. Magdeburg
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Hjalmarsson, Håkan		Royal Inst. of Tech.
Stoica, Petre		Uppsala Univ.
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Malisani, Paul		MINES ParisTech
Chaplais, Francois		MINES ParisTech
Petit, Nicolas		MINES ParisTech
Feldmann, Dominique		EDF R&D centre des renardiçRes.
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Rolain, Yves J.		Vrije Univ. Brussels
Pintelon, Rik M.		Vrije Univ. Brussels
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Mossberg, Magnus		Karlstad Univ.
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Co-Chair: Lozano, Rogelio		Univ. de Tech.
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Shames, Iman		Australian National Univ.
Anderson, Brian D.O.		Australian National Univ.
Yu, CHANGBIN (Brad)		The Australian National Univ.
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Kim, Jong-Han		Stanford Univ.
Lall, Sanjay		Stanford Univ.
Merrill, Walt		Scientific Monitoring, Inc
Behbahani, Alireza		Air Force Res. Lab.
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Kara-Zaitri, Mounir		CNRS ; LAAS ; 7 avenue du colonel Roche, F-31077 Toulouse, Franc
Arzelier, Denis		LAAS-CNRS
Delibasi, Akin		Yildiz Tech. Univ.
Louembet, Christophe		CNRS
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Marconi, Lorenzo		Univ. di Bologna
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Khosravian, Alireza		Sharif Univ. of Tech.

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Co-Chair: Fierro, Rafael		Univ. of New Mexico
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Xia, Ye		Univ. of Florida
Behdani, Behnam		Univ. of Florida
Smith, J. Cole		Univ. of Florida
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Sumanasena, Buddika		Univ. of Notre Dame
Bauer, Peter H.		Notre Dame Univ.
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Sumanasena, Buddika		Univ. of Notre Dame
Bauer, Peter H.		Notre Dame Univ.
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Zhang, Wei		Univ. of California at Berkeley
Vitus, Michael P.		Stanford Univ.
Hu, Jianghai		Purdue Univ.
Abate, Alessandro		TU Delft
Tomlin, Claire J.		UC Berkeley
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Yu, CHANGBIN (Brad)		The Australian National Univ.
Dasgupta, Soura		Univ. of Iowa
Anderson, Brian D.O.		Australian National Univ.
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Chair: Valcher, Maria Elena		Univ. di Padova
Co-Chair: Braslavsky, Julio H.		The Univ. of Newcastle
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Agrachev, Andrei A.		Int. School for Advanced Studies
Baryshnikov, Yuliy		Bell Lab.
Liberzon, Daniel		Univ. of Illinois, Urbana-Champaign
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Michalska, Hannah H.		McGill Univ.
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Shen, Jinglai		Univ. of Maryland Baltimore County
Hu, Jianghai		Purdue Univ.
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Zheng, Wei Xing		Univ. of Western Sydney
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Valcher, Maria Elena		Univ. di Padova
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Hespanha, Joao P.		Univ. of California, Santa Barbara
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Zheng, Gang	INRIA
Barbot, Jean Pierre	ENSEA
Boutat, Driss	Ensi de Bourges
Floquet, Thierry	CNRS
Richard, Jean-Pierre	Ec. Centrale de Lille
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Zhang, Huanshui	Shandong Univ.
Feng, Gang	City Univ. of Hong Kong
Han, Chunyan	Univ. of Jinan
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Komae, Arash	Univ. of Maryland Coll. Park
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Zhou, Tong	Tsinghua Univ.
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Grandvallet, Bertrand	CRAN
Zemouche, Ali	Nancy-Univ.
Boutayeb, Mohamed	Univ. of Henri Poincaré Nancy
Changey, Sebastien	ISL - Fr.-Ge. Res. Inst. of Saint-Louis
11:40-12:00	WeA13.6
<i>Separation of System Dynamics and Line Spectra Via Sparse Representation</i> , pp. 473-478.	
Ning, Lipeng	Univ. of Minnesota
Georgiou, Tryphon T.	Univ. of Minnesota
Tannenbaum, Allen	Georgia Tech.

WeA14

Room 214

Optimization I (Regular Session)

Chair: Bitmead, Robert	Univ. of California San Diego
Co-Chair: Manzie, Chris	The Univ. of Melbourne
10:00-10:20	WeA14.1
<i>Negotiation of Coupled Constraints in Coordinated Systems</i> , pp. 479-484.	
Riggs, Daniel Jason	Univ. of California San Diego
Bitmead, Robert	Univ. of California San Diego
10:20-10:40	WeA14.2
<i>Explicit Solutions for Root Optimization of a Polynomial Family</i> , pp. 485-488.	
Blondel, Vincent	Univ. catholique de Louvain
Gurbuzbalaban, Mert	New York Univ. Courant Inst. of Mathematical Sciences
Megretski, Alexandre	Massachusetts Inst. of Tech.
Overton, Michael L	New York Univ.
10:40-11:00	WeA14.3
<i>Control of Distributed Convex Optimization</i> , pp. 489-495.	
Lu, Jie	Univ. of Oklahoma
Regier, Paul	Univ. of Oklahoma
Tang, Choon Yik	Univ. of Oklahoma
11:00-11:20	WeA14.4
<i>Growing Window Recursive Quadratic Optimization with Variable Regularization</i> , pp. 496-501.	
Ali, Asad	Univ. of Michigan
Hoagg, Jesse B.	Univ. of Kentucky
Mossberg, Magnus	Karlstad Univ.
Bernstein, Dennis S.	Univ. of Michigan
11:20-11:40	WeA14.5
<i>Large-Dimensional Multi-Objective Evolutionary Algorithms Based on Improved Average Ranking</i> , pp. 502-507.	
Kong, Weijian	Northeastern Univ.
Ding, Jinliang	Northeastern Univ.
Chai, Tianyou	Northeastern Univ.
Sun, Jing	Univ. of Michigan
11:40-12:00	WeA14.6
<i>A Fast Well-Conditioned Interior Point Method for Predictive Control</i> , pp. 508-513.	
Shahzad, Amir	Imperial Coll. London
Kerrigan, Eric C.	Imperial Coll. London
Constantinides, George A.	Imperial Coll. London

WeA15

Room 301

Autonomous Systems (Regular Session)

Chair: Castanon, David A.	Boston Univ.
Co-Chair: Loria, Antonio	LSS-SUPELEC
10:00-10:20	WeA15.1
<i>Multi-Robot Monitoring in Dynamic Environments with Guaranteed Currency of Observations</i> , pp. 514-521.	

Smith, Stephen L. Rus, Daniela	Massachusetts Inst. of Tech. MIT
10:20-10:40 <i>Adaptive Sensor Management for Feature-Based Classification</i> , pp. 522-527.	WeA15.2
Jenkins, Karen Louise Castanon, David A.	Boston Univ. Boston Univ.
10:40-11:00 <i>Hybrid Stabilization of Controlled Spacecrafts</i> , pp. 528-533.	WeA15.3
Schlanbusch, Rune Loria, Antonio Nicklasson, Per Johan	Narvik Univ. Coll. CNRS Narvik Univ. Coll.
11:00-11:20 <i>Phase Synchronization through Entrainment by a Consensus Input</i> , pp. 534-539.	WeA15.4
Wieland, Peter Schmidt, Gerd Simon Sepulchre, Rodolphe J. Allgower, Frank	Univ. of Stuttgart Univ. of Stuttgart Univ. de Liege Univ. of Stuttgart
11:20-11:40 <i>Trajectory Generation Using Sum-Of-Norms Regularization</i> , pp. 540-545.	WeA15.5
Ohlsson, Henrik Gustafsson, Fredrik Ljung, Lennart Boyd, Stephen P.	Linköping Univ. Linköping Univ. Linköping Univ. Stanford Univ.
11:40-12:00 <i>Trajectory Tracking for Non-Holonomic Cars: A Linear Approach to Controlled Leader-Follower Formation</i> , pp. 546-551.	WeA15.6
Sira-Ramirez, Hebert Castro-Linares, Rafael	CINVESTAV CINVESTAV-IPN

WeA16

Room 302

Stochastic Control I (Regular Session)

Chair: Yu, Huizhen Co-Chair: Grover, Pulkit	Univ. of Helsinki UC Berkeley
10:00-10:20 <i>Congestion Avoidance with the Aid of Stochastic Control</i> , pp. 552-558.	WeA16.1
Miller, Aleksandr Miller, Boris	Inst. for Information Transmission Problems Monash Univ.
10:20-10:40 <i>A Markov-Modulated Stochastic Control Problem with Optimal Stopping with Application to Finance</i> , pp. 559-566.	WeA16.2
Leung, Tim	Johns Hopkins Univ.
10:40-11:00 <i>Rates of Convergence of Numerical Methods for Controlled Regime-Switching Diffusions with Stopping Times in the Costs</i> , pp. 567-572.	WeA16.3
Song, Qingshuo Yin, George	City Univ. of Hong Kong Wayne State Univ.
11:00-11:20 <i>Optimal Control under a Mean Variance Criterion for Discrete-Time Linear Systems with Markovian Jumps and Multiplicative Noise</i> , pp. 573-578.	WeA16.4
Costa, Oswaldo Luiz V. de Oliveira, Alexandre	Univ. of Sao Paulo Escola Pol. da Univ. de São Paulo
11:20-11:40 <i>Probabilistic Analysis of Robust Attractive Ellipsoids for Quasi-Linear Discrete-Time Models</i> , pp. 579-584.	WeA16.5
Alazki, Hussain Poznyak, Alexander S.	CINVESTAV CINVESTAV-IPN
11:40-12:00 <i>Is Witsenhausen's Counterexample a Relevant Toy?</i> , pp. 585-590.	WeA16.6
Grover, Pulkit Sahai, Anant	UC Berkeley UC Berkeley

WeA17

Room 303

Robust Control I (Regular Session)

Chair: Yedavalli, Rama K. Co-Chair: Yaz, Edwin	Ohio State Univ. Marquette Univ.
10:00-10:20 <i>On Robust LPV Controller Synthesis: A Dynamic Integral Quadratic Constraint Based Approach</i> , pp. 591-596.	WeA17.1
Veenman, Joost Scherer, Carsten W.	Univ. of Stuttgart Delft Univ. of Tech.
10:20-10:40 <i>Recursive Robust Regulator for Discrete-Time Markovian Jump Linear Systems Via Penalty Game Approach</i> , pp. 597-602.	WeA17.2
Cerri, João Paulo Terra, Marco Henrique Ishihara, João Yoshiyuki	Univ. of São Paulo - São Carlos - Brasil Univ. of São Paulo at São Carlos Univ. of Brasilia

10:40-11:00		WeA17.3
	<i>Robust and Resilient State Dependent Control of Continuous-Time Nonlinear Systems with General Performance Criteria</i> , pp. 603-608.	
	Wang, Xin	Marquette Univ.
	Yaz, Edwin	Marquette Univ.
	Yaz, Yvonne	Milwaukee School of Engineering
11:00-11:20		WeA17.4
	<i>Robustness of Funnel Control in the Gap Metric</i> , pp. 609-614.	
	Ilchmann, Achim	Tech. Univ. of Ilmenau
	Mueller, Markus	Univ. of Exeter
11:20-11:40		WeA17.5
	<i>Robust Stability Analysis and Stabilization Synthesis of Linear Time-Delay Systems Via LMIs</i> , pp. 615-620.	
	Eghbal Sarabi, Fatemeh	Tarbiat Modares Univ.
	Khatibi, Hamid	EPFL
	Momeni, Hamidreza	Tarbiat Modares Univ. of Tehran
11:40-12:00		WeA17.6
	<i>A New and Simple Robust Control Design for Linear Systems with Structured Time Varying Real Parameter Uncertainty</i> , pp. 621-626.	
	Devarakonda, Nagini	The Ohio State Univ.
	Yedavalli, Rama K.	Ohio State Univ.

WeA18

Room 304

Network Analysis and Control I (Regular Session)

	Chair: Wamick, Sean	Brigham Young Univ.
	Co-Chair: Sandberg, Henrik	Royal Inst. of Tech. (KTH)
10:00-10:20		WeA18.1
	<i>Clustering and Synchronization in Phase Models with State Dependent Coupling</i> , pp. 627-632.	
	Scardovi, Luca	Tech. Univ. München
10:20-10:40		WeA18.2
	<i>Distributed Decision Propagation in Mobile Agent Networks</i> , pp. 633-638.	
	Sarkar, Soumik	Pennsylvania State Univ.
	Mukherjee, Kushal	Pennsylvania State Univ.
	Srivastav, Abhishek	Penn State Univ.
	Ray, Asok	Pennsylvania State Univ.
10:40-11:00		WeA18.3
	<i>A Convex Optimization Approach to Decentralized Rate Control in Wireless Networks with Partial Interference</i> , pp. 639-646.	
	Wang, Lei	Brigham Young Univ.
	Ripplinger, David	Brigham Young Univ.
	Rai, Anurag	Brigham Young Univ.
	Wamick, Sean	Brigham Young Univ.
	Zappala, Daniel	Brigham Young Univ.
11:00-11:20		WeA18.4
	<i>Implicit Learning for Explicit Discount Targeting in Online Social Networks</i> , pp. 647-654.	
	Shakkottai, Srinivas	Texas A&M Univ.
	Ying, Lei	Iowa State Univ.
	Sah, Sankalp	Texas A&M Univ.
11:20-11:40		WeA18.5
	<i>Multi-Tree Multicast with a Backpressure Algorithm</i> , pp. 655-660.	
	Cho, Chunglae	Univ. of Florida
	Xia, Ye	Univ. of Florida
11:40-12:00		WeA18.6
	<i>A Decentralized Solution for the Constrained Minimum Cost Flow</i> , pp. 661-666.	
	Bauso, Dario	Univ. di Palermo
	Blanchini, Franco	Univ. degli Studi di Udine
	Giarre, Laura	Univ. Di Palermo
	Pesenti, Raffaele	Univ. of Venice - Ca' Foscari

WeA19

Room 305

Hybrid Systems I (Regular Session)

	Chair: Marconi, Lorenzo	Univ. di Bologna
	Co-Chair: Vidal, Rene	Johns Hopkins Univ.
10:00-10:20		WeA19.1
	<i>Feller Continuity, Recurrence, and Stabilization of Regime-Switching Diffusions</i> , pp. 667-672.	
	Zhu, Chao	Univ. of Wisconsin-Milwaukee
	Yin, George	Wayne State Univ.
10:20-10:40		WeA19.2
	<i>Exponential Input-To-State Stability for Hybrid Dynamical Networks Via Impulsive Interconnection</i> , pp. 673-678.	
	Liu, Bin	The Australian National Univ.
	Hill, David J.	The Australian National Univ.
	Sun, Yunlian	Wuhan Univ.
10:40-11:00		WeA19.3
	<i>Global Asymptotic Stabilization of the Inverted Equilibrium Manifold of the 3-D Pendulum by Hybrid Feedback</i> , pp. 679-684.	

Mayhew, Christopher G. Teel, Andrew R.	Univ. of California, Santa Barbara Univ. of California at Santa Barbara
11:00-11:20 <i>Finite Time Stability of Singularly Impulsive Dynamical Systems</i> , pp. 685-689. Kablar, Natasa A.	WeA19.4 Faculty of Computer Science
11:20-11:40 <i>The Bang-Bang Funnel Controller</i> , pp. 690-695. Liberzon, Daniel Trenn, Stephan	WeA19.5 Univ. of Illinois, Urbana-Champaign Univ. of Würzburg
11:40-12:00 <i>Nonlinear Hybrid System Identification with Kernel Models</i> , pp. 696-701. Lauer, Fabien Bloch, Gerard Vidal, Rene	WeA19.6 Univ. Henri Poincare Nancy 1 Nancy Univ. Johns Hopkins Univ.

WeA20

Room 306

Stability I (Regular Session)

Chair: Griggs, Wynita M. Co-Chair: Gundes, A. N.	National Univ. of Ireland, Maynooth Univ. of California, Davis
10:00-10:20 <i>Feedback Stabilizability of Infinite Dimensional Neutral Systems</i> , pp. 702-707. Hadd, Said Nounou, Hazem Nounou, Mohamed	WeA20.1 Texas A&M Univ. at Qatar, Engineering Building Texas A&M Univ. at Qatar Texas A&M Univ. at Qatar
10:20-10:40 <i>A Novel Finite-Sum Inequality for Stability of Discrete-Time Linear Systems with Interval-Like Time-Varying Delays</i> , pp. 708-713. Zhang, Xianming Han, Qing-Long	WeA20.2 Central Queensland Univ. Central Queensland Univ.
10:40-11:00 <i>Determining "Mixedness" and an Application of Finite-Gain Stability Results to "Mixed" System Interconnections</i> , pp. 714-719. Griggs, Wynita M. Anderson, Brian D.O. Shorten, Robert	WeA20.3 National Univ. of Ireland, Maynooth Australian National Univ. Nat. Univ. of Ireland
11:00-11:20 <i>Comparing the Stability Regions for Fractional-Order PI Controllers and Their Integer-Order Approximations</i> , pp. 720-725. Rahimian, Mohammad Amin Tavazoei, Mohammad Saleh	WeA20.4 Sharif Univ. of Tech. EE Dept, Sharif Univ. of Tech.
11:20-11:40 <i>Extended Stabilizing Controllers for Continuous-Time Descriptor Systems</i> , pp. 726-731. Feng, Yu Yagoubi, Mohamed Chevrel, Philippe	WeA20.5 IRCCyN/Ec. des Mines de Nantes Ec. des Mines de Nantes (IRCCyN) IRCCyN / Ec. des Mines de Nantes
11:40-12:00 <i>Simple Integral-Action Controllers for SISO and MIMO Systems</i> , pp. 732-737. Gundes, A. N. Wai, Edgar C.	WeA20.6 Univ. of California, Davis Univ. of California, Davis

WeA21

Room 307

Fault Diagnosis I (Regular Session)

Chair: Hadjicostis, Christoforos Co-Chair: Selmic, Rastko R.	Univ. of Cyprus Louisiana Tech. Univ.
10:00-10:20 <i>Fault Estimation Using Relative Information for a Formation of Dynamical Systems</i> , pp. 738-743. Menon, Prathyush P Edwards, Christopher	WeA21.1 Univ. of Exeter Univ. of Leicester
10:20-10:40 <i>Dynamic Leader-Followers Network Model of Human Emotions and Their Fault Detection</i> , pp. 744-749. Potula, Keerthi Selmic, Rastko R. Polycarpou, Marios M.	WeA21.2 Louisiana Tech. Univ. Louisiana Tech. Univ. Univ. of Cyprus
10:40-11:00 <i>Data Driven Fault Detection with Robustness to Uncertain Parameters Identified in Closed Loop</i> , pp. 750-755. Dong, Jianfei Verhaegen, Michel Gustafsson, Fredrik	WeA21.3 Delft Univ. of Tech. Delft Univ. of Tech. Linköping Univ.
11:00-11:20 <i>A Fault Tolerant Control Scheme Based on Sensor-Actuation Channel Switching and Dwell Time</i> , pp. 756-761. Stoican, Florin Olaru, Sorin Seron, Maria	WeA21.4 SUPELEC Supelec The Univ. of Newcastle

De Dona, Jose Adrian	The Univ. of Newcastle
11:20-11:40	WeA21.5
<i>Fault Detection for Linear Discrete Time-Varying Systems</i> , pp. 762-767.	
Li, Xiaobo	Univ. of Toronto
Mo, Song-Feng	XEROX
Zhou, Kemin	Louisiana State Univ.
11:40-12:00	WeA21.6
<i>Fault Detection and Isolation of LTV Systems Using Set-Valued Observers</i> , pp. 768-773.	
Rosa, Paulo Andre Nobre	Inst. Superior Tecnico, Lisbon
Silvestre, Carlos	Inst. Superior Tecnico
Shamma, Jeff S.	Georgia Inst. of Tech.
Athans, Michael	Inst. Superior Tecnico
WeA22	Room 308
Computational Methods (Regular Session)	
Chair: Nazin, Alexander V.	Inst. of Control Sciences, RAS
Co-Chair: Helton, J. William	Univ. of California at San Diego
10:00-10:20	WeA22.1
<i>Cooperative Parallel Asynchronous Computation of the Solution of Symmetric Linear Systems</i> , pp. 774-779.	
Bhaya, Amit	Federal Univ. of Rio De Janeiro
Bliman, Pierre-Alexandre J	INRIA-Rocquencourt
Pazos, Fernando Agustin	Federal Univ. of Rio De Janeiro
10:20-10:40	WeA22.2
<i>An ISS and L-Stability Approach to Forward Error Analysis of Iterative Numerical Algorithms</i> , pp. 780-785.	
Hasan, Ammar	Imperial Coll. London
Kerrigan, Eric C.	Imperial Coll. London
Constantinides, George A.	Imperial Coll. London
10:40-11:00	WeA22.3
<i>Convergence Rate Analysis of Allied Genetic Algorithm</i> , pp. 786-791.	
Lin, Feng	Zhejiang Univ. & George Mason Univ.
Zhou, Chunyan	Lishui Univ.
Chang, Kuo-Chu	Center of Excellence in C4I of George Mason Univ.
11:00-11:20	WeA22.4
<i>Estimating the Principal Eigenvector of a Stochastic Matrix: Mirror Descent Algorithms Via Game Approach with Application to PageRank Problem</i> , pp. 792-797.	
Nazin, Alexander V.	Inst. of Control Sciences RAS
11:20-11:40	WeA22.5
<i>Numerical Solutions to Noisy Systems</i> , pp. 798-803.	
Zivanovic, Sanja	Centrum Wiskunde en Informatica
Collins, Pieter	Centrum voor Wiskunde en Informatica
11:40-12:00	WeA22.6
<i>Solvability of Linear Matrix Equations in a Symmetric Matrix Variable</i> , pp. 804-809.	
de Oliveira, Mauricio C.	Univ. of California, San Diego
Helton, J. William	Univ. of California at San Diego
WeA23	Grand Salon A
Biological and Biomedical Systems I (Regular Session)	
Chair: Grover, Martha	Georgia Inst. of Tech.
Co-Chair: Malisoff, Michael	Louisiana State Univ.
10:00-10:20	WeA23.1
<i>Robust Dynamical Network Reconstruction</i> , pp. 810-815.	
Yuan, Ye	Univ. of Cambridge
Stan, Guy-Bart Vincent	Imperial Coll. London
Wamick, Sean	Brigham Young Univ.
Goncalves, Jorge M.	Univ. of Cambridge
10:20-10:40	WeA23.2
<i>Delayed Decision-Making in Bistable Models</i> , pp. 816-821.	
Trotta, Laura	Univ. de Liège
Sepulchre, Rodolphe J.	Univ. de Liege
Bullinger, Eric	Univ. de Liège
10:40-11:00	WeA23.3
<i>Further Results on Robust Output Feedback Control for the Chemostat Dynamics</i> , pp. 822-826.	
Mazenc, Frederic	Projet INRIA DISCO
Malisoff, Michael	Louisiana State Univ.
11:00-11:20	WeA23.4
<i>Dynamic Optimization Algorithms to Mitigate HIV Escape</i> , pp. 827-832.	
Hernandez, Esteban	National Univ. of Ireland
Middleton, Richard H.	National Univ. of Ireland Maynooth
Colaneri, Patrizio	Pol. di Milano
Blanchini, Franco	Univ. degli Studi di Udine

11:20-11:40 WeA23.5
Digital Closed-Loop Control of Plasma Glycemia, pp. 833-838.
 Palumbo, Pasquale IAS-CNR
 Pepe, Pierdomenico Univ. of L' Aquila
 Panunzi, Simona Consiglio Nazionale delle Ricerche
 De Gaetano, Andrea CNR

11:40-12:00 WeA23.6
Asymptotic Optimal Control of Neuromuscular Electrical Stimulation, pp. 839-844.
 Wang, Qiang Univ. of Florida
 Sharma, Nitin Univ. of Alberta
 Johnson, Marcus Univ. of florida
 Dixon, Warren E. Univ. of Florida

WeAT Grand Salon B
Model-Based Systems Engineering I (Tutorial Session)

Chair: Baras, John S. Univ. of Maryland
 Co-Chair: Sangiovanni-Vincentelli, Alberto Univ. of California at Berkeley
 10:00-10:40 WeAT.1
*Introduction and Overview of MBSE (I)**.
 Baras, John S. Univ. of Maryland
 10:40-11:20 WeAT.2
*MBSE and Platform Based Design (I)**.
 Sangiovanni-Vincentelli, Alberto Univ. of California at Berkeley
 11:20-12:00 WeAT.3
*MBSE, Metamodels and CPS (I)**.
 Sztiapanovits, Janos Vanderbilt Univ.

WeB01 Room 201

Distributed Parameter Systems II (Invited Session)

Chair: Demetriou, Michael A. Worcester Pol. Inst.
 Co-Chair: Armaou, Antonios The Pennsylvania State Univ.
 Organizer: Demetriou, Michael A. Worcester Pol. Inst.
 Organizer: Armaou, Antonios The Pennsylvania State Univ.
 13:30-13:50 WeB01.1
Positive Stabilization of Infinite-Dimensional Linear Systems (I), pp. 845-850.
 Abouzad'd, Bouchra Univ. of Namur (FUNDP), Belgium
 Winkin, Joseph J. Univ. of Namur
 Wertz, Vincent Univ. Catholique de Louvain
 13:50-14:10 WeB01.2
On the Stability of Receding Horizon Control of Bilinear Parabolic PDE Systems (I), pp. 851-857.
 Ou, Yongsheng Lehigh Univ.
 Schuster, Eugenio Lehigh Univ.
 14:10-14:30 WeB01.3
Multiscale Optimal Control of Transport-Reaction System with Time Varying Spatial Domain (I), pp. 858-863.
 Ng, James Univ. of Alberta
 Dubljevic, Stevan Univ. of Alberta
 Aksikas, Ilyasse Univ. of Alberta
 14:30-14:50 WeB01.4
Output Feedback Control of the FitzHugh-Nagumo Equation Using Adaptive Model Reduction (I), pp. 864-869.
 Pitchaiah, Sivakumar Pennsylvania state Univ.
 Armaou, Antonios The Pennsylvania State Univ.
 14:50-15:10 WeB01.5
Analytical Computation of POD Modes and N-Width Approximations for the Heat Equation with Boundary Control (I), pp. 870-875.
 Fernandez, Tasha Univ. of Tennessee
 Djouadi, Seddik, M. Univ. of Tennessee
 Camphouse, R. Chris AFRL/VACA
 15:10-15:30 WeB01.6
Approximation of Feedback Gain in LQR Control of a Neutral Delay-Differential Equation (I), pp. 876-880.
 Fabiano, Richard H. Univ. of North Carolina at Greensboro

WeB02 Room 202

Adaptive Control II (Regular Session)

Chair: Johnson, Eric N. Georgia Inst. of Tech.
 Co-Chair: Bodson, Marc Univ. of Utah
 13:30-13:50 WeB02.1
Nash Equilibrium Seeking for Games with Non-Quadratic Payoffs, pp. 881-886.
 Frihauf, Paul Univ. of California, San Diego
 Krstic, Miroslav Univ. of California at San Diego
 Basar, Tamer Univ. of Illinois, Urbana-Champaign
 13:50-14:10 WeB02.2

<i>Adaptive Harmonic Steady-State Disturbance Rejection with Frequency Tracking</i> , pp. 887-892.		
Pigg, Scott		Univ. of Utah
Bodson, Marc		Univ. of Utah
14:10-14:30		WeB02.3
<i>Retrospective Cost Adaptive Control for Nonminimum-Phase Discrete-Time Systems, Part 1: The Ideal Controller and Error System</i> , pp. 893-898.		
Hoagg, Jesse B.		Univ. of Kentucky
Bernstein, Dennis S.		Univ. of Michigan
14:30-14:50		WeB02.4
<i>Retrospective Cost Adaptive Control for Nonminimum-Phase Discrete-Time Systems, Part 2: The Adaptive Controller and Stability Analysis</i> , pp. 899-904.		
Hoagg, Jesse B.		Univ. of Kentucky
Bernstein, Dennis S.		Univ. of Michigan
14:50-15:10		WeB02.5
<i>Pressure and Work-Limited Neuroadaptive Control for Mechanical Ventilation of Critical Care Patients</i> , pp. 905-910.		
Volyansky, Kostyantyn		Georgia Inst. of Tech.
Haddad, Wassim M.		Georgia Inst. of Tech.
Bailey, James M.		Northeast Georgia Medical Center
15:10-15:30		WeB02.6
<i>Indirect Training of a Spiking Neural Network for Flight Control Via Spike-Timing-Dependent Synaptic Plasticity</i> , pp. 911-917.		
Foderaro, Greg		Duke Univ.
Henriquez, Craig		Duke Univ.
Ferrari, Silvia		Duke Univ.

WeB03 Room 203

Markov Processes I (Regular Session)

Chair: Bitmead, Robert		Univ. of California San Diego
Co-Chair: Vidyasagar, Mathukumalli		The Univ. of Texas at Dallas
13:30-13:50		WeB03.1
<i>Observability and Reconstructibility of Hidden Markov Models: Implications for Control and Network Congestion Control</i> , pp. 918-923.		
Liu, Andrew R.		Univ. of California, San Diego
Bitmead, Robert		Univ. of California San Diego
13:50-14:10		WeB03.2
<i>Filtering for Discrete-Time Markov Jump Systems with Network Transmitted Mode</i> , pp. 924-929.		
Gonçalves, Alim		UNESP Univ. Estadual Paulista
Fioravanti, Andre R.		INRIA Saclay - Ile de France
Geromel, Jose C.		UNICAMP
14:10-14:30		WeB03.3
<i>Toward an Optimized Value Iteration Algorithm for Average Cost Markov Decision Processes</i> , pp. 930-934.		
Arruda, Edilson		Pontifícia Univ. Católica do Rio Grande do Sul
Ourique, Fabricio		PUCRS
Almudevar, Anthony		Univ. of Rochester Medical Center
14:30-14:50		WeB03.4
<i>State Aggregation Based Linear Programming Approach to Approximate Dynamic Programming</i> , pp. 935-941.		
Darbha, Swaroop		Texas A & M Univ.
Kalyanam, Krishnamoorthy		Air Force Res. Lab.
Pachter, Meir		AFIT/ENG
Chandler, Phillip R.		USAF
14:50-15:10		WeB03.5
<i>Reciprocal Fields: A Model for Random Fields Pinned to Two Boundaries</i> , pp. 942-947.		
Vats, Divyanshu		Carnegie Mellon Univ.
Moura, Jose' M. F.		Carnegie Mellon Univ.
15:10-15:30		WeB03.6
<i>Kullback-Leibler Divergence Rate between Probability Distributions on Sets of Different Cardinalities</i> , pp. 948-953.		
Vidyasagar, Mathukumalli		The Univ. of Texas at Dallas

WeB04 Room 204

Dynamic Resource Allocation and Optimization in Networks I (Invited Session)

Chair: Parandehgheibi, Ali		MIT
Co-Chair: Ozdaglar, Asuman		MIT
Organizer: Parandehgheibi, Ali		MIT
Organizer: Ozdaglar, Asuman		MIT
Organizer: Medard, Muriel		
13:30-13:50		WeB04.1
<i>On the Design of Efficient CSMA Algorithms for Wireless Networks (I)</i> , pp. 954-959.		
Ghaderi, Javad		Univ. of Illinois at Urbana-Champaign
Srikant, R		Univ. of Illinois, Urbana-Champaign
13:50-14:10		WeB04.2
<i>Access-Network Association Policies for Media Streaming in Heterogeneous Environments (I)</i> , pp. 960-965.		
Parandehgheibi, Ali		MIT

Medard, Muriel	MIT
Ozdaglar, Asuman	MIT
Shakkottai, Srinivas	Texas A&M Univ.
14:10-14:30	WeB04.3
<i>Spatial Games and Global Optimization for the Mobile Association Problem: The Downlink Case</i> , pp. 966-972.	
Silva, Alonso	INRIA
Tembine, Hamidou	CNRS LSS SUPELEC
Altman, Eitan	INRIA
Debbah, Mérouane	Supélec
14:30-14:50	WeB04.4
<i>Delay-Constrained Maximum Reliability Routing Over Lossy Links (I)</i> , pp. 973-978.	
Zou, Zhenhua	Royal Inst. of Tech. Sweden
Soldati, Pablo	KTH
Zhang, Haibo	Royal Inst. of Tech.
Johansson, Mikael	Royal Inst. of Tech.
14:50-15:10	WeB04.5
<i>Hat Guessing Games and the Use of Coding for Decentralized Control (I)</i> , pp. 979-985.	
Mirghaderi, Reza	Stanford Univ.
Adlakha, Sachin	Stanford Univ.
Lall, Sanjay	Stanford Univ.
Goldsmith, Andrea	Stanford Univ.
15:10-15:30	WeB04.6
<i>Constrained Node Placement and Assignment in Mobile Backbone Networks</i> , pp. 986-991.	
Craparo, Emily	Naval Postgraduate School
WeB05	Room 205
Delay Systems II (Regular Session)	
Chair: Michiels, Wim	K.U. Leuven
Co-Chair: Carravetta, Francesco	IASI-CNR
13:30-13:50	WeB05.1
<i>Weakly Pulse-Coupled Oscillators: Heterogeneous Delays Lead to Homogeneous Phase</i> , pp. 992-997.	
Mallada, Enrique	Cornell Univ.
Tang, Ao	Cornell Univ.
13:50-14:10	WeB05.2
<i>Robust D-Stabilization with Minimization of the H-Infinity Guaranteed Cost for Uncertain Discrete-Time Systems with Multiple Delays in the State</i> , pp. 998-1003.	
Silva, Luis F. P.	PPGEL / CEFET-MG
Leite, Valter J. S.	CEFET/MG - Campus Div.
Miranda, Marcio Fantini	Federal Univ. of Minas Gerais
Geraldo Nepomuceno, Erivelton	UFSJ
14:10-14:30	WeB05.3
<i>New Delay-And-Delay-Derivative-Dependent Stability Criteria for Systems with Time-Varying Delay</i> , pp. 1004-1009.	
Figueroa, Luis Felipe da Cruz	Univ. of Brasilia
Ishihara, João Yoshiyuki	Univ. of Brasilia
Borges, Geovany A.	Univ. de Brasilia
Bauchspiess, Adolfo	Univ. of Brasilia
14:30-14:50	WeB05.4
<i>Delay Estimation for Wireless LAN Control of Nonlinear Systems</i> , pp. 1010-1016.	
Karasev, Peter	Georgia Inst. of Tech.
Vela, Patricio A.	Georgia Inst. of Tech.
Tannenbaum, Allen	Georgia Tech.
14:50-15:10	WeB05.5
<i>Stability Interval for Time-Varying Delay Systems</i> , pp. 1017-1022.	
Ariba, Yassine	Royal Inst. of Tech. (KTH)
Gouaisbaut, Frederic	Univ. of Toulouse, LAAS CNRS
Johansson, Karl H.	Royal Inst. of Tech.
15:10-15:30	WeB05.6
<i>Observer-Based L2-Linfty Control for a Class of Stochastic Systems with Time-Varying Delay</i> , pp. 1023-1028.	
Li, Lin	BeiHang Univ.
Jia, Yingmin	BeiHang Univ.
Du, Junping	Beijing Univ. of Posts and Telecommunications
Yu, Fashan	Henan Pol. Univ.

WeB06	Room 206
Control Methods for Energy Efficient Infrastructures (Invited Session)	
Chair: Sinopoli, Bruno	Carnegie Mellon Univ.
Co-Chair: Krogh, Bruce H.	Carnegie Mellon Univ.
Organizer: Sinopoli, Bruno	Carnegie Mellon Univ.
Organizer: Krogh, Bruce H.	Carnegie Mellon Univ.
13:30-13:50	WeB06.1
<i>The Value of Volatile Resources in Electricity Markets (I)</i> , pp. 1029-1036.	

Meyn, Sean	Univ. of Illinois
Negrete-Pincetic, Matias	Department of Electrical and Computer Engineering, Univ. of
Wang, Gui	Univ. of Illinois at Urbana-Champaign
Kowli, Anupama	Univ. of Illinois
Shafieepoorfard, Ehsan	Univ. of Illinois Urbana Champaign
13:50-14:10	WeB06.2
<i>Energy Reserves and Clearing in Stochastic Power Markets: The Case of Plug-In-Hybrid Electric Vehicle Battery Charging (I)</i> , pp. 1037-1044.	
Foster, Justin M.	Boston Univ.
Caramanis, Michael C.	Boston Univ.
14:10-14:30	WeB06.3
<i>Segmented Road Grade Estimation for Fuel Efficient Heavy Duty Vehicles (I)</i> , pp. 1045-1050.	
Sahlholm, Per	KTH School of Electrical Engineering
Johansson, Karl H.	Royal Inst. of Tech.
14:30-14:50	WeB06.4
<i>A Simple Optimal Power Flow Model with Energy Storage</i> , pp. 1051-1057.	
Chandy, K. Mani	California Inst. of Tech.
Low, Steven	California Inst. of Tech.
Topcu, Ufuk	California Inst. of Tech.
Xu, Huan	California Inst. of Tech.
14:50-15:10	WeB06.5
<i>Propulsive Energy Harvesting by a Fishlike Vehicle in a Vortex Flow: Computational Modeling and Control</i> , pp. 1058-1064.	
Kelly, Scott	Univ. of North Carolina at Charlotte
Pujari, Parthesh	Univ. of North Carolina at Charlotte
15:10-15:30	WeB06.6
<i>A Hierarchical Approach to Energy Management in Data Centers (I)</i> , pp. 1065-1070.	
Parolini, Luca	Carnegie Mellon Univ.
Garone, Emanuele	Univ. della Calabria
Sinopoli, Bruno	Carnegie Mellon Univ.
Krogh, Bruce H.	Carnegie Mellon Univ.

WeB07

Room 207

Game Theory (Regular Session)

Chair: Krishnamurthy, Vikram	Univ. of British Columbia
Co-Chair: Camacho, Eduardo F.	Univ. of Sevilla
13:30-13:50	WeB07.1
<i>Stable Nash Equilibria of Medium Access Games under Symmetric, Socially Altruistic Behavior</i> , pp. 1071-1075.	
Kesidis, George	Pennsylvania State Univ.
Altman, Eitan	INRIA
Azad, Amar Prakash	INRIA, Sophia Antipolis
Jin, Youngmi	Sogang Univ.
13:50-14:10	WeB07.2
<i>Evolution of the Perception about the Opponent in Hypergames</i> , pp. 1076-1081.	
Gharesifard, Bahman	Univ. of California San Diego
Cortes, Jorge	Univ. of California, San Diego
14:10-14:30	WeB07.3
<i>Efficiency Loss in Revenue Optimal Auctions</i> , pp. 1082-1087.	
Abhishek, Vineet	Univ. of Illinois at Urbana-Champaign
Hajek, Bruce	UIUC
14:30-14:50	WeB07.4
<i>Power Allocation and Spectrum Sharing in Multi-User, Multi-Channel Systems with Strategic Users</i> , pp. 1088-1095.	
Kakhbod, Ali	Univ. of Michigan, Ann Arbor
Teneketzis, Demosthenis	EECE, Univ. of Michigan, Ann Arbor
14:50-15:10	WeB07.5
<i>Optimal Control in the Presence of an Intelligent Jammer with Limited Actions</i> , pp. 1096-1101.	
Gupta, Abhishek	Univ. of Illinois at Urbana Champaign
Langbort, Cedric	Univ. of Illinois, Urbana-Champaign
Basar, Tamer	Univ. of Illinois, Urbana-Champaign
15:10-15:30	WeB07.6
<i>Quickest Time Detection and Constrained Optimal Social Learning with Variance Penalty</i> , pp. 1102-1107.	
Krishnamurthy, Vikram	Univ. of British Columbia

WeB08

Room 208

Robotics II (Regular Session)

Chair: De Luca, Alessandro	Univ. di Roma "La Sapienza"
Co-Chair: Shiriaev, Anton	NTNU/Umea Univ.
13:30-13:50	WeB08.1
<i>Motion Planning with Hybrid Dynamics and Temporal Goals</i> , pp. 1108-1115.	
Bhatia, Amit	Rice Univ.
Kavraki, Lydia	Rice Univ.
Vardi, Moshe	Rice Univ.

13:50-14:10		Web08.2
<i>Time-Scaling Control and Passive Walking of Bipedes with Underactuation Degree One</i> , pp. 1116-1121.		
Hu, Yong		Zhejiang Univ.
Yan, Gangfeng		Zhejiang Univ.
Lin, Zhiyun		Zhejiang Univ.
Liu, Meiqin		Zhejiang Univ.
14:10-14:30		Web08.3
<i>Total Energy-Shaping IDA-PBC Control of the 2D-SpiderCrane</i> , pp. 1122-1127.		
Sarras, Ioannis		Univ. Libre de Bruxelles
Kazi, Faruk		Indian Inst. of Tech. Bombay
Ortega, Romeo		LSS-SUPELEC
Banavar, Ravi N.		Indian Inst. of Tech.
14:30-14:50		Web08.4
<i>Immersion and Invariance Control for an Antagonistic Joint with Nonlinear Mechanical Stiffness</i> , pp. 1128-1135.		
Wimboeck, Thomas		German Aerospace Center (DLR)
Ott, Christian		German Aerospace Center (DLR)
Hirzinger, Gerd		German Aerospace Center -- DLR
14:50-15:10		Web08.5
<i>Natural Sit-Down and Chair-Rise Motions for a Humanoid Robot</i> , pp. 1136-1141.		
Pchelkin, Stepan		Moscow State Tech. Univ.
Shiriaev, Anton		NTNU/Umea Univ.
Freidovich, Leonid		Umeå Univ.
Mettin, Uwe		Norwegian Univ. of Science and Tech.
Kwon, Woong		Samsung Electronics Co.
Gusev, Sergei V.		St. Petersburg State Univ.
15:10-15:30		Web08.6
<i>Trajectory Tracking Control for a Tele-Operation Setup with Disturbance Estimation and Compensation</i> , pp. 1142-1147.		
Lichiardopol, Stefan		Eindhoven Univ. of Tech.
Van De Wouw, Nathan		Eindhoven Univ. of Tech.
Nijmeijer, Hendrik		Eindhoven Univ. of Tech.
Kostic, Dragan		Tech. Univ. Eindhoven

Web09 Room 209

Identification II (Regular Session)		
Chair: Laila, Dina Shona		Kingston Univ. London
Co-Chair: Bai, Er-Wei		Univ. of Iowa
13:30-13:50		Web09.1
<i>Multivariable Frequency Domain Identification Using IV-Based Linear Regression</i> , pp. 1148-1153.		
Blom, Rogier S.		Delft Univ. of Tech.
Van den Hof, Paul M.J.		Delft Univ. of Tech.
13:50-14:10		Web09.2
<i>A Recursive System Identification Method Based on Binary Measurements</i> , pp. 1154-1158.		
Jafari, Kian		SUPELEC
Juillard, Jerome		SUPELEC
Colinet, Eric		CEA-LETI
14:10-14:30		Web09.3
<i>Sparse Calibration of an Extreme Adaptive Optics System</i> , pp. 1159-1164.		
Chiuso, Alessandro		Univ. di Padova
Muradore, Riccardo		Univ. of Verona
Aller-Carpentier, Emmanuel		European Southern Observatory
14:30-14:50		Web09.4
<i>Adaptive Extended Kalman Filter for Recursive Identification under Missing Data</i> , pp. 1165-1170.		
Peñarrocha, Ignacio		Univ. Jaume I de Castelló
Sanchis, Roberto		Univ. Jaume I
14:50-15:10		Web09.5
<i>Are Wiener/Hammerstein System Identifications Really Nonlinear?</i> , pp. 1171-1176.		
Cai, Zhijun		Univ. of Iowa
Bai, Er-Wei		Univ. of Iowa
15:10-15:30		Web09.6
<i>A New Approach for Modeling Hybrid Systems Based on the Minimization of Parameter Transition in Linear Time-Varying Models</i> , pp. 1177-1182.		
Maruta, Ichiro		Kyoto Univ.
Sugie, Toshiharu		Kyoto Univ.

Web10 Room 210

Air Traffic Control Systems Theory I (Invited Session)		
Chair: Vela, Adan		Georgia Inst. of Tech.
Co-Chair: Clarke, John-Paul		Georgia Tech.
Organizer: Vela, Adan		Georgia Inst. of Tech.
Organizer: Clarke, John-Paul		Georgia Tech.
13:30-13:50		Web10.1

<i>Probabilistic 4D Trajectory Prediction and Conflict Detection for Air Traffic Control (I)</i> , pp. 1183-1188.	
Liu, Weiyi	Purdue Univ.
Hwang, Inseok	Purdue Univ.
13:50-14:10	WeB10.2
<i>Traffic Complexity of Intersecting Flows of Aircraft under Variations of Pilot Preferences in Maneuver Choice (I)</i> , pp. 1189-1194.	
Lupu, Mircea	Univ. of Pittsburgh
Feron, Eric	Georgia Tech.
Mao, Zhi-Hong	Univ. of Pittsburgh
14:10-14:30	WeB10.3
<i>Distributed Scheduling for Air Traffic Throughput Maximization During the Terminal Phase of Flight (I)</i> , pp. 1195-1200.	
Chipalkatty, Rahul	Georgia Inst. of Tech.
Twu, Philip	Georgia Inst. of Tech.
Rahmani, Amir	Georgia Inst. of Tech.
Egerstedt, Magnus	Georgia Inst. of Tech.
14:30-14:50	WeB10.4
<i>Iterative Accelerated a* Path Planning (I)</i> , pp. 1201-1206.	
Kopriva, Stepan	Agent Tech. Center, Faculty of Electrical Engineering, Czec
Sislak, David	Faculty of Electrical Engineering, Czech Tech. Univ.
Pavlicek, Dusan	Agent Tech. Center, Faculty of Electrical Engineering, Czec
Pechoucek, Michal	Agent Tech. Center, Faculty of Electrical Engineering, Czec
14:50-15:10	WeB10.5
<i>Maximizing Throughput at an Intersection with Constrained Maneuvers (I)</i> , pp. 1207-1214.	
Vela, Adan	Georgia Inst. of Tech.
Salaün, Erwan	Georgia Inst. of Tech.
Feron, Eric	Georgia Tech.
Clarke, John-Paul	Georgia Tech.
Singhose, William	Georgia Inst. of Tech.
15:10-15:30	WeB10.6
<i>Analysis of Decentralized Potential Field Based Multi-Agent Navigation Via Primal-Dual Lyapunov Theory (I)</i> , pp. 1215-1220.	
Dimarogonas, Dimos V.	Massachusetts Inst. of Tech.
Frazzoli, Emilio	Massachusetts Inst. of Tech.
<hr/>	
WeB11	Room 211
Sensor Networks II (Regular Session)	
Chair: Ferrari, Silvia	Duke Univ.
Co-Chair: Cortes, Jorge	Univ. of California, San Diego
13:30-13:50	WeB11.1
<i>Corrective Consensus: Converging to the Exact Average</i> , pp. 1221-1228.	
Chen, Yin	Johns Hopkins Univ.
Tron, Roberto	Johns Hopkins Univ.
Terzis, Andreas	Johns Hopkins Univ.
Vidal, Rene	Johns Hopkins Univ.
13:50-14:10	WeB11.2
<i>A Networked Transferable Belief Model Approach for Distributed Data Aggregation - Static Version</i> , pp. 1229-1236.	
Gasparri, Andrea	Univ. of "Roma Tre"
Panzieri, Stefano	Univ. "Roma Tre"
Fiorini, Flavio	Univ. degli Studi Roma Tre
Di Rocco, Maurizio	Univ. degli Studi Roma Tre
14:10-14:30	WeB11.3
<i>A Networked Transferable Belief Model Approach for Distributed Data Aggregation - Dynamic Version</i> , pp. 1237-1242.	
Gasparri, Andrea	Univ. of "Roma Tre"
Di Rocco, Maurizio	Univ. degli Studi Roma Tre
Fiorini, Flavio	Univ. degli Studi Roma Tre
Panzieri, Stefano	Univ. "Roma Tre"
14:30-14:50	WeB11.4
<i>A Geometric Transversals Approach to Analyzing Track Coverage of Omnidirectional Sensor Networks for Maneuvering Targets</i> , pp. 1243-1249.	
Bernard, Brian	Duke Univ.
Ferrari, Silvia	Duke Univ.
14:50-15:10	WeB11.5
<i>An Adaptive Coverage Control Algorithm for Deployment of Nonholonomic Mobile Sensors</i> , pp. 1250-1256.	
Luna, Jose-Marcio	The Univ. of New Mexico
Fierro, Rafael	Univ. of New Mexico
Abdallah, Chaouki T.	Univ. of New Mexico
Wood, John	Univ. of New Mexico
15:10-15:30	WeB11.6
<i>Decentralized Control of Mobile Sensor Networks for Asymptotically Optimal Self-Deployment in Blanket Coverage</i> , pp. 1257-1262.	
Cheng, Teddy M.	Univ. of New South Wales
Savkin, Andrey	Univ. of New South Wales

Switched Systems II (Regular Session)

Chair: Jabbari, Faryar	Univ. of California at Irvine
Co-Chair: Dimirovski, Georgi M	Dogus Univ. of Istanbul
13:30-13:50	WeB12.1
<i>Stability of Networked Passive Switched Systems</i> , pp. 1263-1268.	
McCourt, Michael J.	Univ. of Notre Dame
Antsaklis, Panos J.	Univ. of Notre Dame
13:50-14:10	WeB12.2
<i>Feedback Stabilisation of Switched Systems Via Iterative Approximate Eigenvector Assignment</i> , pp. 1269-1274.	
Haimovich, Hernan	Univ. Nacional de Rosario, Argentina
Braslavsky, Julio H.	The Univ. of Newcastle
14:10-14:30	WeB12.3
<i>State-Norm Estimators for Switched Nonlinear Systems under Average Dwell-Time</i> , pp. 1275-1280.	
Muller, Matthias Albrecht	Univ. of Stuttgart
Liberzon, Daniel	Univ. of Illinois, Urbana-Champaign
14:30-14:50	WeB12.4
<i>Multiple Stage Anti-Windup Augmentation Synthesis for Open-Loop Stable Plants</i> , pp. 1281-1286.	
Sajjadi-Kia, Solmaz	Univ. of California at Irvine (UCI)
Jabbari, Faryar	Univ. of California at Irvine
14:50-15:10	WeB12.5
<i>State Observation for Non-Linear Switched Systems Using Non-Homogeneous HOSM Observers</i> , pp. 1287-1292.	
Rios Barajas, Hector	National Autonomous Univ. of Mexico
Davila Montoya, Jorge Angel	National Pol. Inst. (Inst. Pol. Nacional)
Fridman, Leonid M.	National Autonomous Univ.
15:10-15:30	WeB12.6
<i>Adaptive Backstepping for Stabilization of Switched Nonlinear Systems</i> , pp. 1293-1297.	
Tamba, Tua Agustinus	Inst. of Tech. Bandung, Indonesia
Leksono, Edi	Department of Engineering Physics, Inst. of Tech. Bandu

WeB13

Room 213

Kalman Filtering (Regular Session)

Chair: Costa, Eduardo F.	Univ. de São Paulo
Co-Chair: Rojas, Alejandro J.	Univ. de Concepción
13:30-13:50	WeB13.1
<i>Design of a Navigation Filter by Analysis of Local Observability</i> , pp. 1298-1305.	
Bristeau, Pierre-Jean	MINES ParisTech
Petit, Nicolas	MINES ParisTech
Praly, Laurent	MINES ParisTech
13:50-14:10	WeB13.2
<i>Characterization of Exponential Divergence of the Kalman Filter for Time-Varying Systems</i> , pp. 1306-1311.	
Costa, Eduardo F.	Univ. de São Paulo
Astolfi, Alessandro	Imperial Coll. & Univ. of Rome
14:10-14:30	WeB13.3
<i>Optimal Removal of Out-Of-Sequence Measurements from Tracks Using the IF-Equivalent Measurement</i> , pp. 1312-1317.	
Zhang, Shuo	Univ. of Connecticut
Bar-Shalom, Yaakov	Univ. of Connecticut
14:30-14:50	WeB13.4
<i>On Sensor Scheduling of Linear Dynamical Systems with Error Bounds</i> , pp. 1318-1323.	
Vitus, Michael P.	Stanford Univ.
Zhang, Wei	Univ. of California at Berkeley
Abate, Alessandro	TU Delft
Hu, Jianghai	Purdue Univ.
Tomlin, Claire J.	UC Berkeley
14:50-15:10	WeB13.5
<i>An Adaptive-Covariance-Rank Algorithm for the Unscented Kalman Filter</i> , pp. 1324-1329.	
Padilla, Lauren	Princeton Univ.
Rowley, Clarence W.	Princeton Univ.
15:10-15:30	WeB13.6
<i>On the Continuous-Time Algebraic Riccati Equation and Its Closed-Form Solution</i> , pp. 1330-1335.	
Rojas, Alejandro J.	Univ. de Concepción

WeB14

Room 214

Optimization II (Regular Session)

Chair: Casavola, Alessandro	Univ. Della Calabria
Co-Chair: Shao, Zhijiang	Zhejiang Univ.
13:30-13:50	WeB14.1
<i>A Convex Approach for NMPC Based on Second Order Volterra Series Models</i> , pp. 1336-1341.	
Gruber, Jom Klaas	Univ. de Sevilla
Alamo, Teodoro	Univ. de Sevilla
Ramirez, Daniel R.	Univ. of Sevilla

Bordons, Carlos	Univ. de Sevilla
Camacho, Eduardo F.	Univ. of Sevilla
13:50-14:10	WeB14.2
<i>Sequential Sub-Problem Programming Strategies for Data Reconciliation and Parameter Estimation with Multiple Data Sets</i> , pp. 1342-1347.	
Zhang, Zhengjiang	Zhejiang Univ.
Shao, Zhijiang	Zhejiang Univ.
14:10-14:30	WeB14.3
<i>Sensor Scheduling for Energy Constrained Estimation in Multi-Hop Wireless Sensor Networks</i> , pp. 1348-1353.	
Mo, Yilin	Carnegie Mellon Univ.
Garone, Emanuele	Univ. della Calabria
Casavola, Alessandro	Univ. Della Calabria
Sinopoli, Bruno	Carnegie Mellon Univ.
14:30-14:50	WeB14.4
<i>Cooperative Mission Planning for a Class of Carrier-Vehicle Systems</i> , pp. 1354-1359.	
Garone, Emanuele	Univ. della Calabria
Naldi, Roberto	Univ. di Bologna
Casavola, Alessandro	Univ. Della Calabria
Frazzoli, Emilio	Massachusetts Inst. of Tech.
14:50-15:10	WeB14.5
<i>A Cutting-Plane Method for Mixed-Logical Semidefinite Programs with an Application to Multi-Vehicle Robust Path Planning</i> , pp. 1360-1365.	
Kong, Fook Wai	Imperial Coll. London
Kuhn, Daniel	Imperial Coll. London
Rustem, Berc	Imperial Coll. London
15:10-15:30	WeB14.6
<i>Fast Primal-Dual Projected Linear Iterations for Distributed Consensus in Constrained Convex Optimization</i> , pp. 1366-1371.	
Necoara, Ion	Univ. Pol. Bucharest
Dumitrache, Ioan	Univ. Pol. Bucharest
Suykens, J.A.K.	Katholieke Univ. Leuven

WeB15

Room 301

Agents and Autonomous Systems I (Regular Session)

Chair: Tsiotras, Panagiotis	Georgia Inst. of Tech.
Co-Chair: Ishii, Hideaki	Tokyo Inst. of Tech.
13:30-13:50	WeB15.1
<i>Completely Decentralised Navigation of Multiple Unicycle Agents with Prioritization and Fault Tolerance</i> , pp. 1372-1377.	
Roussos, Giannis	National Tech. Univ. of Athens
Kyriakopoulos, Kostas J.	National Tech. Univ. of Athens
13:50-14:10	WeB15.2
<i>Sequential Bayesian Classification Decisions for Mobile Sensors</i> , pp. 1378-1383.	
Hyun, Baro	Univ. of Michigan
Kabamba, Pierre T.	Univ. of Michigan
Wang, Weilin	Univ. of Michigan
Girard, Anouck	Univ. of Michigan, Ann Arbor
14:10-14:30	WeB15.3
<i>Multi-Resolution Path Planning: Theoretical Analysis, Efficient Implementation, and Extensions to Dynamic Environments</i> , pp. 1384-1390.	
Cowlagi, Raghvendra	Georgia Inst. of Tech.
Tsiotras, Panagiotis	Georgia Inst. of Tech.
14:30-14:50	WeB15.4
<i>Sampled-Data Consensus for Multiple Agents with Discrete Second-Order Dynamics</i> , pp. 1391-1396.	
Qin, Jiahu	Harbin Inst. of Tech. Harbin, P.R.China
Zheng, Wei Xing	Univ. of Western Sydney
Gao, Huijun	Harbin Inst. of Tech.
14:50-15:10	WeB15.5
<i>Patterned Linear Systems: Rings, Chains, and Trees</i> , pp. 1397-1402.	
Hamilton, Sarah	Univ. of Toronto
Broucke, Mireille E.	Univ. of Toronto
15:10-15:30	WeB15.6
<i>Geometric Control of Patterned Linear Systems</i> , pp. 1403-1408.	
Hamilton, Sarah	Univ. of Toronto
Broucke, Mireille E.	Univ. of Toronto

WeB16

Room 302

Stochastic Control II (Regular Session)

Chair: Charalambous, Charalambos D.	Univ. of Cyprus
Co-Chair: Do Val, Joao B.R.	UNICAMP - FEEC
13:30-13:50	WeB16.1
<i>Q-Learning and Enhanced Policy Iteration in Discounted Dynamic Programming</i> , pp. 1409-1416.	
Bertsekas, Dimitri P.	Massachusetts Inst. of Tech.
Yu, Huizhen	Univ. of Helsinki

13:50-14:10		Web16.2
<i>Weighted Least-Squares, Cost Density-Shaping, Stochastic Optimal Control: A Step towards Total Probabilistic Control Design</i> , pp.		
14:17-14:22.	Zyskowski, Matthew Sain, Michael K. Diersing, Ronald	Univ. of Notre Dame Univ. of Notre Dame Univ. of Southern Indiana
14:10-14:30		Web16.3
<i>A Symmetric Structure of Variational and Adjoint Systems of Stochastic Hamiltonian Systems</i> , pp. 1423-1428.		
	Satoh, Satoshi Fujimoto, Kenji	Hiroshima Univ. Nagoya Univ.
14:30-14:50		Web16.4
<i>Stochastic Nash Games for Weakly Coupled Large Scale Discrete-Time Systems with State and Control-Dependent Noise</i> , pp. 1429-1435.		
	Mukaidani, Hiroaki Xu, Hua Dragan, Vasile	Hiroshima Univ. Univ. of Tsukuba Romanian Acad.
14:50-15:10		Web16.5
<i>Singular Perturbation for the Discounted Continuous Control of Piecewise Deterministic Markov Processes</i> , pp. 1436-1441.		
	Costa, Oswaldo Luiz V. Dufour, Francois	Univ. of Sao Paulo Univ. Bordeaux 1
15:10-15:30		Web16.6
<i>Optimal Stochastic Control of Discrete-Time Systems Subject to Total Variation Distance Uncertainty</i> , pp. 1442-1447.		
	Charalambous, Charalambos D. Rezaei, Farzad Tzortzis, Ioannis	Univ. of Cyprus None Univ. of Cyprus

WeB17 Room 303

Robust Control II (Regular Session)

	Chair: Scherer, Carsten W. Co-Chair: Ebihara, Yoshio	Delft Univ. of Tech. Kyoto Univ.
13:30-13:50		Web17.1
<i>Nested Backward Compensation of Unmatched Effects of Unknown Inputs Based on HOSM Identification</i> , pp. 1448-1453.		
	Ferreira de Loza, Alejandra Punta, Elisabetta Fridman, Leonid M. Bartolini, Giorgio	National Autonomous Univ. National Res. Council of Italy National Autonomous Univ. Univ. of Cagliari
13:50-14:10		Web17.2
<i>Computation Method for Complete D-Stability Intervals of a Class of Matrices Based on Generalization of the Stability Feeler</i> , pp.		
1454-1459.	Matsuda, Tadasuke Kawanishi, Michihiro Narikiyo, Tatsuo	Toyota Tech. Inst. Toyota Tech. Inst. Toyota Tech. Inst.
14:10-14:30		Web17.3
<i>L2 Gain Verification for Interconnections of Locally Stable Systems Using Integral Quadratic Constraints</i> , pp. 1460-1465.		
	Summers, Erin Packard, Andrew K.	UC Berkeley Univ. of California at Berkeley
14:30-14:50		Web17.4
<i>Robust H-2 Filter Design for Polytopic Linear Systems Via LMIs and Polynomial Matrices</i> , pp. 1466-1471.		
	Lacerda, Márcio J. Oliveira, Ricardo C. L. F. Peres, Pedro L. D.	Univ. of Campinas, Brazil Univ. of Campinas - UNICAMP Univ. of Campinas
14:50-15:10		Web17.5
<i>Asymptotic Exactness of Dual LMI Approach for Robust Performance Analysis of Uncertain LTI Systems</i> , pp. 1472-1477.		
	Ebihara, Yoshio Matsuda, Yusuke Hagiwara, Tomomichi	Kyoto Univ. Kyoto Univ. Kyoto Univ.
15:10-15:30		Web17.6
<i>Robust Stability: A Relaxation Method for the Generation of Polyhedral Lyapunov Functions</i> , pp. 1478-1483.		
	Ambrosino, Roberto Ariola, Marco Amato, Francesco	Univ. di Napoli, Parthenope Univ. degli Studi di Napoli Parthenope Univ. Magna Graecia di Catanzaro

WeB18 Room 304

Network Analysis and Control II (Regular Session)

	Chair: Bauso, Dario Co-Chair: Bullo, Francesco	Univ. di Palermo Univ. California at Santa Barbara
13:30-13:50		Web18.1
<i>Nonlinear State-Dependent Delay Modeling and Stability Analysis of Internet Congestion Control</i> , pp. 1484-1491.		
	Briat, Corentin Hjalmarsson, Håkan Johansson, Karl H. Jonsson, Ulf T.	KTH Royal Inst. of Tech. Royal Inst. of Tech. Royal Inst. of Tech. (KTH)

Karlsson, Gunnar Sandberg, Henrik	Royal Inst. of Tech. Royal Inst. of Tech. (KTH)
13:50-14:10 <i>On the Observability of Path and Cycle Graphs</i> , pp. 1492-1497.	WeB18.2
Parlangeli, Gianfranco Notarstefano, Giuseppe	Univ. degli studi di Lecce Univ. of Lecce
14:10-14:30 <i>Distributed Statistical Estimation of the Number of Nodes in Sensor Networks</i> , pp. 1498-1503.	WeB18.3
Varagnolo, Damiano Pillonetto, Gianluigi Schenato, Luca	Univ. of Padova Univ. of Padova Univ. of Padova
14:30-14:50 <i>Robust Allocation Rules in Dynamical Cooperative TU Games</i> , pp. 1504-1509.	WeB18.4
Bauso, Dario Reddy, P.V.	Univ. di Palermo Tilburg Univ. The Netherlands
14:50-15:10 <i>A Fractional Attitude Decision and Control System Design for a Virtual Satellite</i> , pp. 1510-1515.	WeB18.5
Wu, Xiaofeng Bai, Xueliang	Univ. of Sydney Univ. of Sydney
15:10-15:30 <i>A Stochastic Control Approach to Coding with Feedback Over Degraded Broadcast Channels</i> , pp. 1516-1521.	WeB18.6
Gorantla, Siva Kumar Coleman, Todd	Univ. of Illinois, Urbana Champaign Univ. of Illinois

WeB19

Room 305

Hybrid Systems II (Regular Session)

Chair: Teel, Andrew R. Co-Chair: Trenn, Stephan	Univ. of California at Santa Barbara Univ. of Illinois, Urbana-Champaign
13:30-13:50 <i>Design of Nonlinear Regulators from Logic-Based Stabilizers</i> , pp. 1522-1527.	WeB19.1
Marconi, Lorenzo Teel, Andrew R.	Univ. di Bologna Univ. of California at Santa Barbara
13:50-14:10 <i>An Integrated Approach to the Symbolic Control Design of Nonlinear Systems with Infinite States Specifications</i> , pp. 1528-1533.	WeB19.2
Borri, Alessandro Pola, Giordano Di Benedetto, M. Domenica	Univ. of L'Aquila Univ. of L'Aquila Univ. of L'Aquila
14:10-14:30 <i>Gradient-Geodesic HMP Algorithms for the Optimization of Hybrid Systems Based on the Geometry of Switching Manifolds</i> , pp. 1534-1539.	WeB19.3
Taringoo, Farzin Caines, Peter E.	McGill Univ. McGill Univ.
14:30-14:50 <i>A Note about Hybrid Linear Regulation</i> , pp. 1540-1545.	WeB19.4
Marconi, Lorenzo Teel, Andrew R.	Univ. di Bologna Univ. of California at Santa Barbara
14:50-15:10 <i>Hybrid System Identification: An SDP Approach</i> , pp. 1546-1552.	WeB19.5
Feng, Chao Lagoa, Constantino M. Ozay, Necmiye Sznaier, Mario	Pennsylvania State Univ. Pennsylvania State Univ. Northeastern Univ. Northeastern Univ.
15:10-15:30 <i>Stabilization of Linear Conservative Dynamical Systems Using Cyclic Energy Dissipation</i> , pp. 1553-1558.	WeB19.6
Michel, Anthony N. Hou, Ling	Univ. of Notre Dame St. Cloud State Univ.

WeB20

Room 306

Stability II (Regular Session)

Chair: Ito, Hiroshi Co-Chair: Zheng, Wei Xing	Kyushu Inst. of Tech. Univ. of Western Sydney
13:30-13:50 <i>Lyapunov Functions for Discrete-Time Multivariable Popov Criterion with Indefinite Multipliers</i> , pp. 1559-1564.	WeB20.1
Ahmad, Nur Syazreen Heath, William Paul Li, Guang	The Univ. of Manchester Univ. of Manchester Univ. of Exeter
13:50-14:10 <i>Simultaneous Stabilization and Step Tracking for MIMO Systems with LTI Controllers</i> , pp. 1565-1570.	WeB20.2
Gundes, A. N. Nanjangud, Akshay	Univ. of California, Davis Univ. of California, Davis
14:10-14:30	WeB20.3

<i>Basic Results on Pointwise Asymptotic Stability and Set-Valued Lyapunov Functions</i> , pp. 1571-1574.	Loyola Univ. Chicago
Goebel, Rafal	
14:30-14:50	WeB20.4
<i>Stability Analysis for a Class of Sampled Nonlinear Systems with Time-Delay</i> , pp. 1575-1580.	CINVESTAV-GDL, Mexico
Castillo-Toledo, Bernardino	Univ. of L'Aquila
Di Gennaro, Stefano	Centro de Investigación y Estudios Avanzados del IPN
Sandoval Castro, Graciela	
14:50-15:10	WeB20.5
<i>Stability Robustness in the Presence of Exponentially Unstable Isolated Equilibria</i> , pp. 1581-1586.	Imperial Coll.
Angeli, David	MINES ParisTech
Praly, Laurent	
15:10-15:30	WeB20.6
<i>Phase-Locking between Kuramoto Oscillators: Robustness to Time-Varying Natural Frequencies</i> , pp. 1587-1592.	Univ. Paris XI - Supélec
Franci, Alessio	Univ. Paris Sud
Chaillet, Antoine	CNRS, SUPELEC
Pasillas-Lepine, William	

WeB21 Room 307

Fault Diagnosis II (Regular Session)

Chair: Silvestre, Carlos	Inst. Superior Tecnico
Co-Chair: Edwards, Christopher	Univ. of Leicester
13:30-13:50	WeB21.1
<i>Pulse-Compression Probing of Small Signal Characteristics for Nonlinear Systems in Dynamic Operating Conditions</i> , pp. 1593-1599.	
Wu, Neng Eva	Binghamton Univ.
Ruschmann, Matthew	Binghamton Univ.
Huang, Jianzhuang	Binghamton Univ.
13:50-14:10	WeB21.2
<i>Robust Sensor Fault Detection and Isolation for a Doubly-Fed Induction Generator</i> , pp. 1600-1606.	
Boukroune, Boulaïd	Univ. Libre de Bruxelles
Gálvez Carrillo, Manuel Ricardo	Univ. Libre de Bruxelles
Kinnaert, Michel	Univ. Libre de Bruxelles
14:10-14:30	WeB21.3
<i>Online Estimation of Linear State-Space Parameters of the Generic Transport Model for a Set of Structural Damage Scenarios</i> , pp. 1607-1612.	
Ruschmann, Matthew	Binghamton Univ.
Wu, Neng Eva	Binghamton Univ.
Shin, Jong-yeob	Gulfstream Aerospace Company
14:30-14:50	WeB21.4
<i>Estimation of State, Actuator and Sensor Faults for Takagi-Sugeno Models</i> , pp. 1613-1618.	
Chadli, Mohammed	Univ. de Picardie-Jules Verne
Bouattour, Maha	Univ. of Picardie Jules Verne and National Engineering Scho
El Hajjaji, Ahmed	Univ. de Picardie-Jules Verne
Chaabane, Mohamed	Univ. of Sfax
14:50-15:10	WeB21.5
<i>Distributed Fault Diagnosis of Large-Scale Discrete-Time Nonlinear Systems: New Results on the Isolation Problem</i> , pp. 1619-1626.	
Ferrari, Riccardo M.G.	Danieli Automation S.p.A.
Parisini, Thomas	Univ. of Trieste
Polycarpou, Marios M.	Univ. of Cyprus
15:10-15:30	WeB21.6
<i>Performance Analysis of Sum-Product Algorithms for Multiple Fault Diagnosis Applications</i> , pp. 1627-1632.	
Le, Tung	Univ. of Illinois, Urbana-Champaign
Tatikonda, Sekhar	Yale Univ.
Hadjicostis, Christoforos	Univ. of Cyprus

WeB22 Room 308

Visual Servo Control (Regular Session)

Chair: Woolsey, Craig	Virginia Tech.
Co-Chair: Aguiar, A. Pedro	Inst. Superior Tecnico, Tech. Univ. of Lisbon
13:30-13:50	WeB22.1
<i>Pose Estimation from Visual Measurements Using the Epipolar Constraint</i> , pp. 1633-1638.	
Monda, Mark	Virginia Tech.
Woolsey, Craig	Virginia Tech.
13:50-14:10	WeB22.2
<i>Delay Compensation in a Dual-Rate Cascade Visual Servomechanism</i> , pp. 1639-1643.	
Hurak, Zdenek	Czech Tech. Univ. in Prague
Rezac, Martin	Czech Tech. Univ. in Prague
14:10-14:30	WeB22.3
<i>Vision-Based Quadrotor Stabilization Using a Pan and Tilt Camera</i> , pp. 1644-1649.	
Cabecinhas, David	Inst. Superior Tecnico
Silvestre, Carlos	Inst. Superior Tecnico
Cunha, Rita	Inst. Superior Técnico

14:30-14:50		WeB22.4
<i>An Optimization-Based Approach for Design and Analysis of Stable 2.5D Visual Servoing under Sensor and Actuator Constraints</i> , pp.		
1650-1655.		
Wang, Zhao		Univ. of Central Florida
Kim, Dae-Jin		Univ. of Central Florida
Behal, A.		Univ. of Central Florida
14:50-15:10		WeB22.5
<i>Nonlinear IBVS Controller for the Flare Maneuver of Fixed-Wing Aircraft Using Optical Flow</i> , pp. 1656-1661.		
Serra, Pedro		Inst. Superior Técnico, ISR
Le Bras, Florent		Delegation generale de l'armement
Hamel, Tarek		Univ. de Nice Sophia Antipolis
Silvestre, Carlos		Inst. Superior Técnico
Cunha, Rita		Inst. Superior Técnico
15:10-15:30		WeB22.6
<i>Hovering Quad-Rotor Control: A Comparison of Nonlinear Controllers Using Visual Feedback</i> , pp. 1662-1667.		
Garcia Carrillo, Luis Rodolfo		Univ. de Tech. de Compiègne
Rondon, Eduardo		Heudiasyc UMR 6599
Dzul, Alejandro		Inst. Tecnológico de la Laguna
Sanchez, Anand		CINVESTAV
Lozano, Rogelio		Univ. de Tech.

WeB23

Grand Salon A

Biological and Biomedical Systems II (Regular Session)

Chair: Stan, Guy-Bart Vincent		Imperial Coll. London
Co-Chair: Grover, Martha		Georgia Inst. of Tech.
13:30-13:50		WeB23.1
<i>Nonlinear Gain in Online Prediction of Blood Glucose Profile in Type 1 Diabetic Patients</i> , pp. 1668-1673.		
Castillo Estrada, Giovanna Elizabeth		Johannes Kepler Univ.
Del Re, Luigi		Johannes Kepler Univ. Linz
Renard, Eric		Centre Hospitalier Univ. de Montpellier
13:50-14:10		WeB23.2
<i>Model-Based Nonlinear Control of the Human Heart Rate During Treadmill Exercising</i> , pp. 1674-1678.		
Mazenc, Frederic		Projet INRIA DISCO
Malisoff, Michael		Louisiana State Univ.
de Queiroz, Marcio		Louisiana State Univ.
14:10-14:30		WeB23.3
<i>A Control Theoretic Approach to Robot-Assisted Locomotor Therapy</i> , pp. 1679-1686.		
Gregg, Robert D.		Northwestern Univ.
Bretl, Timothy		Univ. of Illinois, Urbana-Champaign
Spong, Mark W.		Univ. of Texas at Dallas
14:30-14:50		WeB23.4
<i>Local Feature Analysis Based Clustering Algorithm with Application to Polymer Dynamics Model Reduction</i> , pp. 1687-1692.		
Xue, Yuzhen		Georgia Inst. of Tech.
Ludovice, Pete		Georgia Inst. of Tech.
Grover, Martha		Georgia Inst. of Tech.
14:50-15:10		WeB23.5
<i>Hybrid Moment Computation Algorithm for Biochemical Reaction Networks</i> , pp. 1693-1698.		
Zhao, Yun-Bo		Univ. of Glasgow
Kim, Jongrae		Univ. of Glasgow
Hespanha, Joao P.		Univ. of California, Santa Barbara
15:10-15:30		WeB23.6
<i>Application of Potent Potential Functions in Eye/Head Movement Control</i> , pp. 1699-1704.		
Ghosh, Bijoy		Texas Tech. Univ.
Wijayasinghe, Indika		Texas Tech. Univ.

WeBT

Grand Salon B

Model-Based Systems Engineering II (Tutorial Session)

Chair: Sangiovanni-Vincentelli, Alberto		Univ. of California at Berkeley
Co-Chair: Baras, John S.		Univ. of Maryland
13:30-14:10		WeBT.1
<i>MBSE Using SysML (I)*</i> .		
Friedenthal, Sanford		Lockheed Martin
14:10-14:50		WeBT.2
<i>Distributed Systems Analysis (I)*</i> .		
Jacobson, Clas A.		United Tech. Res. Ctr.
14:50-15:10		WeBT.3
<i>MBSE Examples, Component-Based Synthesis and Conclusions (I)*</i> .		
Baras, John S.		Univ. of Maryland
15:10-15:30		WeBT.4
<i>Open Forum, Q&A (I)*</i> .		

WeC01		Room 201
Distributed Parameter Systems III (Invited Session)		
Chair: Demetriou, Michael A.		Worcester Pol. Inst.
Co-Chair: Armaou, Antonios		The Pennsylvania State Univ.
Organizer: Demetriou, Michael A.		Worcester Pol. Inst.
Organizer: Armaou, Antonios		The Pennsylvania State Univ.
16:00-16:20		WeC01.1
<i>Boundary Stabilization of the Inviscid Burgers Equation Using a Lyapunov Method (I)</i> , pp. 1705-1712.		
Blandin, Sebastien		Univ. of California at Berkeley
Litrico, Xavier		Cemagref
Bayen, Alexandre M.		Univ. of California at Berkeley
16:20-16:40		WeC01.2
<i>Acceleration Measured by Micro-Electrical Mechanical Systems (I)</i> , pp. 1713-1718.		
Jacob, Birgit		Univ. of Wuppertal
Morris, Kirsten		Univ. of Waterloo
16:40-17:00		WeC01.3
<i>Feedback Control of a Bioinspired Plate-Beam System (I)</i> , pp. 1719-1724.		
Ray, Cody		Oregon State Univ.
Batten, Belinda A.		Oregon State Univ.
Singler, John		Missouri Univ. of Science and Tech.
17:00-17:20		WeC01.4
<i>Compensating the Distributed Effect of Counter-Convection and Diffusion in Multi-Input and Multi-Output LTI Systems (I)</i> , pp. 1725-1730.		
Bekiaris-Liberis, Nikolaos		Univ. of California, San Diego
Krstic, Miroslav		Univ. of California at San Diego
17:20-17:40		WeC01.5
<i>Feedback Control of the Two-Phase Stefan Problem, with an Application to the Continuous Casting of Steel (I)</i> , pp. 1731-1736.		
Petrus, Bryan		Univ. of Illinois at Urbana-Champaign
Bentsman, Joseph		Univ. of Illinois at Urbana-Champaign
Thomas, Brian G.		Univ. of Illinois at Urbana-Champaign
17:40-18:00		WeC01.6
<i>On the Dissipativity of Pseudorotational Behaviors (I)</i> , pp. 1737-1742.		
Ogura, Masaki		Kyoto Univ.
Yamamoto, Yutaka		Kyoto Univ.
Willems, Jan C.		K.U. Leuven
WeC02		Room 202
Adaptive Control III (Regular Session)		
Chair: Tao, Gang		Univ. of Virginia
Co-Chair: Chowdhary, Girish		Georgia Inst. of Tech.
16:00-16:20		WeC02.1
<i>Direct Adaptive Suppression of Multiple Unknown Vibrations Using an Inertial Actuator</i> , pp. 1743-1748.		
Landau, Ioan Dore		GIPSA-Lab. Control Dept.
Alma, Marouane		Gipsa-Lab.
Martinez Molina, John Jairo		GIPSA-Lab. GRENOBLE-INP
Buche, Gabriel		GIPSA-Lab.
16:20-16:40		WeC02.2
<i>Adaptive Output Feedback Controller Design for a Class of Uncertain Nonlinear Systems with Actuator Failures</i> , pp. 1749-1754.		
Wang, Wei		Nanyang Tech. Univ.
Wen, Changyun		Nanyang Tech. Univ.
16:40-17:00		WeC02.3
<i>Stability and Performance Verification before Switching in New Controllers Using Closed-Loop Data</i> , pp. 1755-1760.		
Dehghani, Arvin		The Univ. of Melbourne
Anderson, Brian D.O.		Australian National Univ.
17:00-17:20		WeC02.4
<i>Discrete-Time Multivariable MRAC Schemes with Output Sensor Uncertainty Compensation</i> , pp. 1761-1766.		
Li, Shanshan		Univ. of Virginia
Tao, Gang		Univ. of Virginia
17:20-17:40		WeC02.5
<i>Least Squares Based Modification for Adaptive Control</i> , pp. 1767-1772.		
Chowdhary, Girish		Georgia Inst. of Tech.
Johnson, Eric N.		Georgia Inst. of Tech.
17:40-18:00		WeC02.6
<i>RISE-Based Adaptive Control of an Uncertain Nonlinear System with Unknown State Delays</i> , pp. 1773-1778.		
Sharma, Nitin		Univ. of Florida
Bhasin, Shubhendu		Univ. of Florida
Wang, Qiang		Univ. of Florida
Dixon, Warren E.		Univ. of Florida

WeC03	Room 203
Markov Processes II (Regular Session)	
Chair: Belta, Calin	Boston Univ.
Co-Chair: Malhame, Roland P.	Ec. Pol. de Montreal
16:00-16:20	WeC03.1
<i>Impulsive Systems Triggered by Superposed Renewal Processes</i> , pp. 1779-1784.	
Antunes, Duarte	Inst. Superior Tecnico, Lisbon
Hespanha, Joao P.	Univ. of California, Santa Barbara
Silvestre, Carlos	Inst. Superior Tecnico
16:20-16:40	WeC03.2
<i>Cooperation in Evolutionary Games on Complex Networks</i> , pp. 1785-1790.	
Zhang, Jianlei	Peking Univ.
Zhang, Chunyan	Peking Univ.
Chu, Tianguang	Peking Univ.
Chen, Zhifu	Peking Univ.
16:40-17:00	WeC03.3
<i>A Stochastic Hybrid State Model for Optimizing Hedging Policies in Manufacturing Systems with Randomly Occurring Defects</i> , pp. 1791-1797.	
Mhada, Fatima-Zahra	École Pol. Montréal
Malhame, Roland P.	Ec. Pol. de Montreal
Pellerin, Robert	École Pol. de Montréal
17:00-17:20	WeC03.4
<i>Robust Partially Mode Delay Dependent H-Infinity Control of Discrete-Time Networked Control Systems</i> , pp. 1798-1803.	
Chae, Seunghwan	Univ. of Auckland
Nguang, Sing Kiong	The Univ. of Auckland
17:20-17:40	WeC03.5
<i>Coevolution of Strategy and Structure on Social Networks</i> , pp. 1804-1809.	
Zhang, Chunyan	Peking Univ.
Zhang, Jianlei	Peking Univ.
Xie, Guangming	Peking Univ.
Wang, Long	Peking Univ.
17:40-18:00	WeC03.6
<i>Reduced-Order Modeling of Markov and Hidden Markov Processes Via Aggregation</i> , pp. 1810-1815.	
Vidyasagar, Mathukumalli	The Univ. of Texas at Dallas
WeC04	Room 204
Dynamic Resource Allocation and Optimization in Networks II (Invited Session)	
Chair: Parandehgheibi, Ali	MIT
Co-Chair: Ozdaglar, Asuman	MIT
Organizer: Parandehgheibi, Ali	MIT
Organizer: Ozdaglar, Asuman	MIT
Organizer: Medard, Muriel	
16:00-16:20	WeC04.1
<i>A Distributed Newton Method for Network Utility Maximization (I)</i> , pp. 1816-1821.	
Wei, Ermin	MIT
Ozdaglar, Asuman	MIT
Jadbabaie, Ali	Univ. of Pennsylvania
16:20-16:40	WeC04.2
<i>Universal Scheduling for Networks with Arbitrary Traffic, Channels, and Mobility (I)</i> , pp. 1822-1829.	
Neely, Michael J.	Univ. of Southern California
16:40-17:00	WeC04.3
<i>Energy Conservation and Interference Mitigation: From Decoupling Property to Win-Win Strategy (I)</i> , pp. 1830-1835.	
Fu, Liquan	The Chinese Univ. of Hong Kong
Kim, Hongseok	Bell Lab. Alcatel-Lucent
Huang, Jianwei	The Chinese Univ. of Hong Kong
Liew, Soung Chang	The Chinese Univ. of Hong Kong
Chiang, Mung	Princeton Univ.
17:00-17:20	WeC04.4
<i>Dynamic Maximum Entropy Algorithms for Clustering and Coverage Control (I)</i> , pp. 1836-1841.	
Xu, Yunwen	Univ. of Illinois at Urbana-Champaign
Salapaka, Srinivasa	Univ. of Illinois
Beck, Carolyn L.	Univ. of Illinois, Urbana-Champaign
17:20-17:40	WeC04.5
<i>Revenue Optimal Auction for Single-Minded Buyers (I)</i> , pp. 1842-1847.	
Abhishek, Vineet	Univ. of Illinois at Urbana-Champaign
Hajek, Bruce	UIUC
17:40-18:00	WeC04.6
<i>Connection-Level Dynamics in Networks: Stability and Control (I)</i> , pp. 1848-1853.	
Ferragut, Andres	Univ. ORT, Uruguay
Paganini, Fernando	Univ. ORT Uruguay

WeC05		Room 205
Variational Methods (Regular Session)		
Chair: Schaeffler, Heinz M.		Washington Univ.
Co-Chair: Murphey, Todd		Northwestern Univ.
16:00-16:20		WeC05.1
<i>Variational Inequalities for Stochastic Reachability</i> , pp. 1854-1859.		
Bujorianu, Luminita Manuela		Univ. of Manchester
16:20-16:40		WeC05.2
<i>Topological Sensitivity Analysis for the Location of Small Flaws in Stokes Flow</i> , pp. 1860-1865.		
Ben Abda, Amel	ENIT-LAMSIN, Compus Univ. Belvedere B.P.107, Tunis	
Hassine, Maatoug	ENIT-LAMSIN, Compus Univ. Belvedere B.P.107, Tunis	
Jaoua, Mohamed	Nice-Sophia Antipolis Univ. Nice, France	
Masmoudi, Mohamed	MIP, UPS Univ.	
16:40-17:00		WeC05.3
<i>Second-Order Adjoint-Based Control for Multiphase Flow in Subsurface Oil Reservoirs</i> , pp. 1866-1871.		
Suwartadi, Eka		NTNU
Krogstad, Stein		SINTEF ICT
Foss, Bjarne A.		Norwegian Univ. of Science & Tech.
17:00-17:20		WeC05.4
<i>Second-Order DMOC Using Projection</i> , pp. 1872-1878.		
Snyder, Kristine		Univ. of Colorado
Murphey, Todd		Northwestern Univ.
17:20-17:40		WeC05.5
<i>On Classical Envelopes in Optimal Control Theory</i> , pp. 1879-1884.		
Schaeffler, Heinz M.		Washington Univ.
17:40-18:00		WeC05.6
<i>Signals and Control Aspects of Optimal Mass Transport and the Boltzmann Entropy</i> , pp. 1885-1890.		
Tannenbaum, Emmanuel		Ben-Gurion Univ. of the Negev, Israel
Georgiou, Tryphon T.		Univ. of Minnesota
Tannenbaum, Allen		Georgia Tech.
WeC06		Room 206
Energy Systems I (Regular Session)		
Chair: Hindi, Haitham		Palo Alto Res. Center (PARC)
Co-Chair: Zaccarian, Luca		Univ. di Roma, Tor Vergata
16:00-16:20		WeC06.1
<i>Market-Based Control Mechanisms for Electric Power Demand Response</i> , pp. 1891-1898.		
Papavasiliou, Anthony		UC Berkeley
Hindi, Haitham		Palo Alto Res. Center (PARC)
Greene, Daniel		Palo Alto Res. Center (PARC)
16:20-16:40		WeC06.2
<i>Extremum Seeking Micro-Thermal-Fluid Control for Active Two-Phase Microelectronics Cooling</i> , pp. 1899-1904.		
Zhang, TieJun		Rensselaer Pol. Inst.
Wen, John T.		Rensselaer Pol. Inst.
Julius, Agung		Rensselaer Pol. Inst.
16:40-17:00		WeC06.3
<i>A Risk-Based Strategy for Power System Optimization</i> , pp. 1905-1910.		
Zafra-Cabeza, Ascension		Univ. of Seville
Del Real, Alejandro J.		Univ. of Seville
Arce, Alicia		Univ. of Seville,
Camacho, Eduardo F.		Univ. of Sevilla
Ridao, Miguel A.		Univ. de Sevilla
Bordons, Carlos		Univ. de Sevilla
17:00-17:20		WeC06.4
<i>On the Stability of Wholesale Electricity Markets under Real-Time Pricing</i> , pp. 1911-1918.		
Roozbehani, Mardavij		Massachusetts Inst. of Tech.
Dahleh, Munther A.		Massachusetts Inst. of Tech.
Mitter, Sanjoy K.		Massachusetts Inst. of Tech.
17:20-17:40		WeC06.5
<i>Optimal Contracts for Wind Power Producers in Electricity Markets</i> , pp. 1919-1926.		
Bitar, Eilyan		Univ. of California, Berkeley
Giani, Annarita		UC Berkeley
Rajagopal, Ram		Univ. of California, Berkeley
Varagnolo, Damiano		Univ. of Padova
Khargonekar, Pramod P.		Univ. of Florida
Poolla, Kameshwar		Univ. of California at Berkeley
Varaiya, Pravin P.		Univ. of California at Berkeley
17:40-18:00		WeC06.6
<i>Reducing Peak Electricity Demand in Building Climate Control Using Real-Time Pricing and Model Predictive Control</i> , pp. 1927-1932.		
Oldewurtel, Frauke		ETH Zurich
Ulbig, Andreas		ETH Zurich - Power Systems Lab.

WeC07

Room 207

Crossroads of Games, Optimization and Control (Invited Session)

Chair: Nedich, Angelia	Univ. of Illinois, Urbana-Champaign
Co-Chair: Shanbhag, Uday V.	Univ. of Illinois, Urbana-Champaign
Organizer: Nedich, Angelia	Univ. of Illinois, Urbana-Champaign
16:00-16:20	WeC07.1
<i>A Game Theoretic Approach to MAC Design for Infrastructure Networks (I)</i> , pp. 1933-1938.	
Tinnirello, Ilenia	Univ. di Palermo
Giarre, Laura	Univ. Di Palermo
Neglia, Giovanni	INRIA Sophia Antipolis Méditerranée
16:20-16:40	WeC07.2
<i>Random Convex Programs: Dealing with the Non-Existing Solution Nuisance (I)</i> , pp. 1939-1944.	
Calafiore, Giuseppe	Pol. di Torino
16:40-17:00	WeC07.3
<i>Distributed Constrained Optimization Over Noisy Networks (I)</i> , pp. 1945-1950.	
Srivastava, Kunal	Univ. of Illinois, Urbana-Champaign
Nedich, Angelia	Univ. of Illinois, Urbana-Champaign
Stipanovic, Dusan M.	Univ. of Illinois, Urbana-Champaign
17:00-17:20	WeC07.4
<i>Optimal Cross-Layer Wireless Control Policies Using TD Learning (I)</i> , pp. 1951-1956.	
Meyn, Sean	Univ. of Illinois
Chen, Wei	Univ. of Illinois, Urbana-Champaign
O'Neill, Daniel	Stanford
17:20-17:40	WeC07.5
<i>Online Convex Programming and Regularization in Adaptive Control (I)</i> , pp. 1957-1962.	
Raginsky, Maxim	Duke Univ.
Rakhlin, Alexander	Univ. of Pennsylvania
Yuksel, Serdar	Queen's Univ.
17:40-18:00	WeC07.6
<i>Distributed Iterative Regularization Algorithms for Monotone Nash Games (I)</i> , pp. 1963-1968.	
Kannan, Aswin	UIUC
Shanbhag, Uday V.	Univ. of Illinois, Urbana-Champaign

WeC08

Room 208

Robotics III (Regular Session)

Chair: Pettersen, Kristin Y.	Norwegian Univ. of Science and Tech.
Co-Chair: Macnab, Chris	Univ. of Calgary
16:00-16:20	WeC08.1
<i>Path Following Control of Planar Snake Robots Using a Cascaded Approach</i> , pp. 1969-1976.	
Liljebäck, Pål	Norwegian Univ. of Science and Tech.
Haugstuen, Idar U.	Norwegian Univ. of Science and Tech.
Pettersen, Kristin Y.	Norwegian Univ. of Science and Tech.
16:20-16:40	WeC08.2
<i>Stability Analysis of Snake Robot Locomotion Based on Averaging Theory</i> , pp. 1977-1984.	
Liljebäck, Pål	Norwegian Univ. of Science and Tech.
Pettersen, Kristin Y.	Norwegian Univ. of Science and Tech.
Stavdahl, Røyvind	Norwegian Univ. of Science and Tech.
Gravdahl, Jan Tommy	Norwegian Univ. of Science & Tech.
16:40-17:00	WeC08.3
<i>An Application of IMPACT Structure to Bilateral Teleoperations</i> , pp. 1985-1990.	
Denasi, Alper	Tech. Univ. Eindhoven
Kostic, Dragan	Tech. Univ. Eindhoven
Nijmeijer, Hendrik	Eindhoven Univ. of Tech.
17:00-17:20	WeC08.4
<i>Feedback Control of a Wheeled Snake Mechanism with the Transverse Function Approach</i> , pp. 1991-1998.	
Morin, Pascal	INRIA
Samson, Claude	INRIA Sophia-Antipolis
17:20-17:40	WeC08.5
<i>On the Linear Control of Nonlinear Mechanical Systems</i> , pp. 1999-2004.	
Sira-Ramirez, Hebert	CINVESTAV
Ramirez-Neria, Mario	Cinvestav IPN
Rodriguez-Angeles, Alejandro	Mexican Petroleum Inst.
17:40-18:00	WeC08.6
<i>A Methodology for Identification of Uncertain LFR Model of the Human Operator for Telemanipulation with Force-Feedback</i> , pp. 2005-2010.	
Laroche, Edouard	Strasbourg Univ.
Barbé, Laurent	Univ. of Strasbourg
Bayle, Bernard	Univ. of Strasbourg

WeC09		Room 209
Identification III (Regular Session)		
Chair: Ohta, Yoshito		Kyoto Univ.
Co-Chair: Manchester, Ian		Massachusetts Inst. of Tech.
16:00-16:20		WeC09.1
<i>A Scenario-Based Approach to Parameter Estimation in State-Space Models Having Quantized Output Data</i> , pp. 2011-2016.		
Marelli, Damian		Univ. of Newcastle
Godoy, Boris I.		The Univ. of Newcastle
Goodwin, Graham C.		Univ. of Newcastle
16:20-16:40		WeC09.2
<i>Convergence Analysis for Maximum Likelihood-Based Reliability Estimation from Subsystem and Full System Tests</i> , pp. 2017-2022.		
Spall, James C.		Johns Hopkins Univ.
16:40-17:00		WeC09.3
<i>Continuous-Time Subspace Identification in Closed-Loop Using Laguerre Filters</i> , pp. 2023-2028.		
Bergamasco, Marco		Pol. di Milano
Lovera, Marco		Pol. di Milano
17:00-17:20		WeC09.4
<i>Parametric Frequency Domain Identification of a Time-Varying System As a Time-Dependent Weighted Sum of Time-Invariant Systems</i> , pp. 2029-2034.		
Lataire, John		Vrije Univ. Brussel
Pintelon, Rik M.		Vrije Univ. Brussels
17:20-17:40		WeC09.5
<i>Subspace Identification Using Dynamic Invariance in Shifted Time-Domain Data</i> , pp. 2035-2040.		
Miller, Daniel N.		Univ. of California San Diego
de Callafon, Raymond A.		Univ. of California, San Diego
17:40-18:00		WeC09.6
<i>Input Design for System Identification Via Convex Relaxation</i> , pp. 2041-2046.		
Manchester, Ian R.		Massachusetts Inst. of Tech.
WeC10		Room 210
Air Traffic Control Systems Theory II (Invited Session)		
Chair: Salaün, Erwan		Georgia Inst. of Tech.
Co-Chair: Feron, Eric		Georgia Tech.
Organizer: Salaün, Erwan		Georgia Inst. of Tech.
Organizer: Feron, Eric		Georgia Tech.
16:00-16:20		WeC10.1
<i>Controllability Properties for Aircraft Formations (I)</i> , pp. 2047-2054.		
Wang, Huifang		Univ. of Pisa
Pallottino, Lucia		Univ. of Pisa
Bicchi, Antonio		Univ. di Pisa
16:20-16:40		WeC10.2
<i>Feedback Control of the National Airspace System to Mitigate Weather Disruptions (I)</i> , pp. 2055-2062.		
Le Ny, Jerome		Univ. of Pennsylvania
Balakrishnan, Hamsa		Massachusetts Inst. of Tech.
16:40-17:00		WeC10.3
<i>Trajectory Generation for Multiple Aircraft Subject to Dynamic Weather Uncertainty (I)</i> , pp. 2063-2068.		
Kamgarpour, Maryam		Univ. of California, Berkeley
Dadok, Vera		Univ. of California at Berkeley
Tomlin, Claire J.		UC Berkeley
17:00-17:20		WeC10.4
<i>Air Traffic Complexity Based on Dynamical Systems (I)</i> , pp. 2069-2074.		
Daniel, Delahaye		ENAC
Puechmorel, Stephane		ENAC
17:20-17:40		WeC10.5
<i>A Geometric Approach to Air Traffic Complexity Evaluation for Strategic Trajectory Management (I)</i> , pp. 2075-2080.		
Piroddi, Luigi		Pol. di Milano
Prandini, Maria		Pol. di Milano
17:40-18:00		WeC10.6
<i>A Complexity Reduction Approach to the Detection of Safety Critical Situations in Air Traffic Management Systems</i> , pp. 2081-2086.		
Petriccone, Alessandro		Univ. of L'Aquila
Pola, Giordano		Univ. of L'Aquila
De Santis, Elena		Univ. of L'Aquila
Di Benedetto, M. Domenica		Univ. of L'Aquila

WeC11		Room 211
Sensor Networks III (Regular Session)		
Chair: Vidal, Rene		Johns Hopkins Univ.
Co-Chair: Liao, Chenda		Univ. of Florida

16:00-16:20		WeC11.1
<i>Adaptive Consensus Fusion Estimation for MSN with Communication Delays and Switching Network Topologies</i> , pp. 2087-2092.		
Wang, Lin		National Univ. of Defense Tech.
Zhang, Qingjie		National Univ. of Defense Tech.
Zhu, Huayong		National Univ. of Defense Tech.
Shen, Lincheng		National Univ. of Defense Tech.
16:20-16:40		WeC11.2
<i>Distributed Perimeter Patrolling and Tracking for Camera Networks</i> , pp. 2093-2098.		
Baseggio, Mauro		Univ. of Padova
Cenedese, Angelo		Univ. of Padova
Merlo, Pierangelo		Univ. degli Studi di Padova
Pozzi, Mauro		Univ. of Padova, Italy
Schenato, Luca		Univ. of Padova
16:40-17:00		WeC11.3
<i>Adaptive Self-Triggered Control Over IEEE 802.15.4 Networks</i> , pp. 2099-2104.		
Tiberi, Ubaldo		Univ. of L'Aquila
Fischione, Carlo		Royal Inst. of Tech.
Johansson, Karl H.		Royal Inst. of Tech.
Di Benedetto, M. Domenica		Univ. of L'Aquila
17:00-17:20		WeC11.4
<i>When Optimal Sensor Interrogation Is Rhythmic</i> , pp. 2105-2110.		
O'Connor, Alan Christopher		Harvard Univ.
17:20-17:40		WeC11.5
<i>Consensus with Robustness to Outliers Via Distributed Optimization</i> , pp. 2111-2117.		
Li, Jixin		Johns Hopkins Univ.
Elhamifar, Ehsan		Johns Hopkins Univ.
Wang, I-Jeng		Johns Hopkins Univ.
Vidal, Rene		Johns Hopkins Univ.
17:40-18:00		WeC11.6
<i>Time-Synchronization in Mobile Sensor Networks from Difference Measurements</i> , pp. 2118-2123.		
Liao, Chenda		Univ. of Florida
Barooah, Prabir		Univ. of Florida

WeC12 Room 212

Switched Systems III (Regular Session)

Chair: Martinez Molina, John Jairo		GIPSA-Lab. GRENOBLE-INP
Co-Chair: Egerstedt, Magnus		Georgia Inst. of Tech.
16:00-16:20		WeC12.1
<i>Mode Detection in Switched Pursuit Tracking Tasks: Hybrid Estimation to Measure Performance in Parkinson's Disease</i> , pp. 2124-2130.		
Oishi, Meeko		Univ. of British Columbia
Ashoori, Ahmad		Department of Electrical and Computer Engineering, Univ. of
McKeown, Martin J.		Univ. of British Columbia
16:20-16:40		WeC12.2
<i>On the Infinite Horizon Constrained Switched LQR Problem</i> , pp. 2131-2136.		
Balandat, Maximilian		Tech. Univ. Darmstadt, Darmstadt, Germany
Zhang, Wei		Univ. of California at Berkeley
Abate, Alessandro		TU Delft
16:40-17:00		WeC12.3
<i>On-Line Optimal Timing Control of Switched Systems</i> , pp. 2137-2142.		
Wardi, Yorai		Georgia Inst. of Tech.
Twu, Philip		Georgia Inst. of Tech.
Egerstedt, Magnus		Georgia Inst. of Tech.
17:00-17:20		WeC12.4
<i>Optimal Sampled Data Control of PWM Systems Using Piecewise Affine Approximations</i> , pp. 2143-2148.		
Almer, Stefan		ETH Zuerich
Mariethoz, Sebastien		ETH Zurich
Morari, Manfred		ETH Zurich
17:20-17:40		WeC12.5
<i>Robust Design of a Switched PI Controller for an Uncertain Traffic Model</i> , pp. 2149-2154.		
Lemarchand, Antoine		Gipsa-Lab.
Koenig, Damien		Grenoble-INP
Martinez Molina, John Jairo		GIPSA-Lab. GRENOBLE-INP
17:40-18:00		WeC12.6
<i>An Adjoint Method for Second-Order Switching Time Optimization</i> , pp. 2155-2162.		
Caldwell, Timothy		Northwestern Univ.
Murphey, Todd		Northwestern Univ.

WeC13 Room 213

Output Feedback and Observers (Regular Session)

Chair: Khalil, Hassan K.		Michigan State Univ.
Co-Chair: Aguilar, Luis T.		CITEDI-IPN

16:00-16:20		WeC13.1
Exponential Convergence of Nonlinear Luenberger Observers , pp. 2163-2168.	Andrieu, Vincent	Univ. de Lyon
16:20-16:40		WeC13.2
Semi-Global Finite-Time Stabilization of a Class of Nonlinear Systems by Output Feedback , pp. 2169-2174.	Jia, Ruting Qian, Chunjiang	Univ. of Texas at San Antonio Univ. of Texas at San Antonio
16:40-17:00		WeC13.3
On Emulation-Based Observer Design for Networked Control Systems , pp. 2175-2180.	Postoyan, Romain Nesic, Dragan	The Univ. of Melbourne Univ. of Melbourne
17:00-17:20		WeC13.4
On the Steady State Error of a Nonlinear Regulator , pp. 2181-2185.	Ranran, Li Khalil, Hassan K.	Northeastern Univ. Michigan State Univ.
17:20-17:40		WeC13.5
A Passivity Measure of Systems in Cascade Based on the Analysis of Passivity Indices , pp. 2186-2191.	Yu, Han Antsaklis, Panos J.	Univ. of Notre Dame Univ. of Notre Dame
17:40-18:00		WeC13.6
Position USBL/DVL Sensor-Based Navigation Filter in the Presence of Unknown Ocean Currents , pp. 2192-2197.	Morgado, Marco Batista, Pedro Oliveira, Paulo Jorge Silvestre, Carlos	Inst. Superior Técnico Inst. Superior Técnico Inst. Superior Técnico Inst. Superior Técnico

WeC14

Room 214

Optimization III (Regular Session)

Chair: Dabney, James	Univ. of Houston - Clear Lake	
Co-Chair: Pao, Lucy Y.	Univ. of Colorado at Boulder	
16:00-16:20	WeC14.1	
Energy Efficient Control of a Boosting System with Multiple Variable-Speed Pumps in Parallel , pp. 2198-2203.	Yang, Zhenyu Bjørstering, Hakon	Aalborg Univ. Esbjerg Campus Grundfos A/S
16:20-16:40	WeC14.2	
Impulse Optimization for Data Association , pp. 2204-2209.	Travers, Matthew Murphey, Todd Pao, Lucy Y.	Univ. of Colorado Northwestern Univ. Univ. of Colorado at Boulder
16:40-17:00	WeC14.3	
A Modified Mnemonic Enhancement Optimization Method for Solving Parametric Nonlinear Programming Problems , pp. 2210-2214.	Wang, Zhiqiang Shao, Zhiqiang Fang, Xueyi Wan, Jn	Zhejiang Univ. Zhejiang Univ. Zhejiang Univ. Zhejiang Univ.
17:00-17:20	WeC14.4	
A Novel Differential Evolution Algorithm for Global Search and Sensor Selection , pp. 2215-2220.	Lu, Feng Gao, Liqun	Northeastern Univ. P.R.China Northeastern Univ.
17:20-17:40	WeC14.5	
Distributed Optimization Techniques for Range Localization in Networked Systems , pp. 2221-2226.	Calafiore, Giuseppe Carlone, Luca Wei, Mingzhu	Pol. di Torino Pol. di Torino Pol. di Torino
17:40-18:00	WeC14.6	
Particle Swarm Optimization Based on Gaussian Mutation and Its Application to Wind Farm Micro-Siting , pp. 2227-2232.	Wan, Chunqiu Wang, Jun Yang, Geng Zhang, Xing	Tsinghua Univ. Tongji Univ. Tsinghua Univ. Tsinghua Univ.

WeC15

Room 301

Agents and Autonomous Systems II (Regular Session)

Chair: Broucke, Mireille E.	Univ. of Toronto	
Co-Chair: Hui, Qing	Texas Tech. Univ.	
16:00-16:20	WeC15.1	
Generalized Efficiency Bounds in Distributed Resource Allocation , pp. 2233-2238.	Marden, Jason Roughgarden, Tim	Univ. of Colorado at Boulder Stanford
16:20-16:40	WeC15.2	

<i>Network Identification Via Node Knock-Out</i> , pp. 2239-2244.	
Nabi Abdolyousefi, Marzieh	Univ. of Washington - DSSL
Mesbahi, Mehran	Univ. of Washington
16:40-17:00	WeC15.3
<i>Set Tracking of Multi-Agent Systems with Variable Topologies Guided by Moving Multiple Leaders</i> , pp. 2245-2250.	
Shi, Guodong	Chinese Acad. of Sciences
Hong, Yiguang	Chinese Acad. of Sciences
17:00-17:20	WeC15.4
<i>Stability and Convergence of Nonlinear Systems Having a Continuum of Equilibria and Time-Varying Delays</i> , pp. 2251-2256.	
Hui, Qing	Texas Tech. Univ.
17:20-17:40	WeC15.5
<i>Control of One-Dimensional Guided Formations Using Coarsely Quantized Information</i> , pp. 2257-2262.	
De Persis, Claudio	Sapienza Univ. of Rome
Liu, Hui	Univ. of Groningen, The Netherlands
Cao, Ming	Univ. of Groningen
17:40-18:00	WeC15.6
<i>Motion Planning for Formations of Dubins Vehicles</i> , pp. 2263-2269.	
Wang, Huifang	Univ. of Pisa
Pallottino, Lucia	Univ. of Pisa
Bicchi, Antonio	Univ. di Pisa
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WeC16	Room 302
Stochastic Control III (Regular Session)	
Chair: Verhaegen, Michel	Delft Univ. of Tech.
Co-Chair: Shishkin, Serge	United Tech. Res. Center
16:00-16:20	WeC16.1
<i>Optimality of Adaption Based Mean Field Control Laws in Leader-Follower Stochastic Collective Dynamics</i> , pp. 2270-2275.	
Nourian, Mojtaba	McGill Univ.
Malhame, Roland P.	Ec. Pol. de Montreal
Huang, Minyi	Carleton Univ.
Caines, Peter E.	McGill Univ.
16:20-16:40	WeC16.2
<i>Robust Cautious Data Driven Control with Guaranteed Mean Square Stability</i> , pp. 2276-2281.	
Kulcsar, Balazs	Delft Univ. of Tech.
Verhaegen, Michel	Delft Univ. of Tech.
16:40-17:00	WeC16.3
<i>Linear Quadratic Regulator for a Class of Markovian Jump Systems with Control in Jumps</i> , pp. 2282-2285.	
Vargas, Alessandro N.	Univ. Tec. Federal do Parana, UTFPR
Ishihara, Joao Yoshiyuki	Univ. of Brasilia
Do Val, Joao B.R.	UNICAMP - FEEC
17:00-17:20	WeC16.4
<i>An Approximate Dynamic Programming Approach to the Dynamic Traveling Repairperson Problem</i> , pp. 2286-2291.	
Shin, Hyung Sik	Stanford Univ.
Lall, Sanjay	Stanford Univ.
17:20-17:40	WeC16.5
<i>On Ergodic Properties of Degenerate Hybrid Stochastic Control Systems</i> , pp. 2292-2297.	
Anulova, Svetlana	IPU
Veretennikov, Alexander Yu.	Univ. of Leeds
17:40-18:00	WeC16.6
<i>Model Predictive Control for Randomly Switching Max-Plus-Linear Systems Using a Scenario-Based Algorithm</i> , pp. 2298-2303.	
van den Boom, Ton J. J.	Delft Univ. of Tech.
De Schutter, Bart	Delft Univ. of Tech.
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WeC17	Room 303
Robust Control III (Regular Session)	
Chair: Yaz, Edwin	Marquette Univ.
Co-Chair: Lindberg, Mikael	Lund Univ.
16:00-16:20	WeC17.1
<i>A Dissipation Inequality Formulation for Stability Analysis with Integral Quadratic Constraints Theorem</i> , pp. 2304-2309.	
Seiler, Peter	Univ. of Minnesota
Packard, Andrew K.	Univ. of California at Berkeley
Balas, Gary J.	Univ. of Minnesota
16:20-16:40	WeC17.2
<i>Dynamic Scaling Based Global Output Feedback for Systems with Input Uncertainties Via a Singular Perturbation Redesign</i> , pp. 2310-2315.	
Krishnamurthy, Prashanth	Pol. Inst. of NYU
Khorrami, Farshad	Pol. Inst. of NYU
16:40-17:00	WeC17.3
<i>Slosh Suppression by Robust Input Shaping</i> , pp. 2316-2321.	
Pridgen, Brice	Georgia Inst. of Tech.
Bai, Kun	Georgia Tech.

Singhose, William	Georgia Inst. of Tech.
17:00-17:20	WeC17.4
<i>A Convex Optimization-Based Approach to Control of Uncertain Execution Platforms</i> , pp. 2322-2329.	
Lindberg, Mikael	Lund Univ.
17:20-17:40	WeC17.5
<i>Multiobjective Robust Dynamic Output-Feedback Control Synthesis Based on Reference Model</i> , pp. 2330-2335.	
Bachur, Wagner Eustáquio Gomes	Centro Federal de Educação Tecnológica de Minas Gerais
Gonçalves, Eduardo Nunes	Centro Federal de Educação Tecnológica de Minas Gerais
Palhares, Reinaldo M.	Federal Univ. of Minas Gerais
Takahashi, Ricardo H. C.	Federal Univ. of Minas Gerais (UFMG)
17:40-18:00	WeC17.6
<i>Distance Measures for Linear Systems with Multiplicative and Inverse Multiplicative Uncertainty Characterisation</i> , pp. 2336-2341.	
Engelken, Sönke	Univ. of Manchester
Lanzon, Alexander	Univ. of Manchester
Patra, Sourav	Univ. of Manchester
Papageorgiou, George	Honeywell Lab.

WeC18

Room 304

Communication Networks (Regular Session)

Chair: Shtessel, Yuri B.	Univ. of Alabama at Huntsville
Co-Chair: R Khouzani, M H	Univ. of Pennsylvania
16:00-16:20	WeC18.1
<i>Distributed Topology Control for Stable Path Routing in Multi-Hop Wireless Networks</i> , pp. 2342-2347.	
Somasundaram, Kiran	Univ. of Maryland, Coll. Park
Baras, John S.	Univ. of Maryland
Jain, Kaustubh	Univ. of Maryland
Tabatabaee, Vahid	Univ. of Maryland at Coll. Park
16:20-16:40	WeC18.2
<i>Noise Attenuation Over Additive Gaussian Channels</i> , pp. 2348-2353.	
Li, Dapeng	Unniversity of Illinois
Hovakimyan, Naira	Univ. of Illinois, Urbana-Champaign
16:40-17:00	WeC18.3
<i>Dispatch Then Stop: Optimal Dissemination of Security Patches in Mobile Wireless Networks</i> , pp. 2354-2359.	
R Khouzani, M H	Univ. of Pennsylvania
Sarkar, Saswati	Univ. of Pennsylvania
Altman, Eitan	INRIA
17:00-17:20	WeC18.4
<i>Controlling Connectivity of a Clustered Mobile Communication Network</i> , pp. 2360-2365.	
Peltsverger, Svetlana	Southern Pol. State Univ.
Holleran, Susan	Univ. of Alabama in Huntsville
Shtessel, Yuri B.	Univ. of Alabama at Huntsville
17:20-17:40	WeC18.5
<i>Preventing Disruption of a Mobile Communication Network Using Higher Order Sliding Mode Control</i> , pp. 2366-2371.	
Holleran, Susan	Univ. of Alabama in Huntsville
Baev, Simon	Georgia Southwestern State Univ. (GSW)
Shtessel, Yuri B.	Univ. of Alabama at Huntsville
17:40-18:00	WeC18.6
<i>Dynamic Vehicle Routing for Data Gathering in Wireless Networks</i> , pp. 2372-2377.	
Celik, Guner	Massachusetts Inst. of Tech. (MIT)
Modiano, Eytan	MIT

WeC19

Room 305

Hybrid Systems III (Regular Session)

Chair: Michel, Anthony N.	Univ. of Notre Dame
Co-Chair: Sanfelice, Ricardo G.	Univ. of Arizona
16:00-16:20	WeC19.1
<i>Stability and Stabilization of Switching Stochastic Differential Equations Subject to Probabilistic State Jumps</i> , pp. 2378-2383.	
Cetinkaya, Ahmet	Tokyo Inst. of Tech.
Kashima, Kenji	Tokyo Inst. of Tech.
Hayakawa, Tomohisa	Tokyo Inst. of Tech.
16:20-16:40	WeC19.2
<i>Stability Analysis of Networked Control Systems: A Sum of Squares Approach</i> , pp. 2384-2389.	
Bauer, Nicolas William	Univ. of Tech. Eindhoven
Heemels, Maurice	Eindhoven Univ. of Tech.
Maas, Paul	Univ. of Tech. Eindhoven
16:40-17:00	WeC19.3
<i>Instability and Overshoots of Solutions for a Class of Homogeneous Hybrid Systems by Lyapunov-Like Analysis</i> , pp. 2390-2395.	
Forni, Fulvio	Univ. di Roma Tor Vergata
Teel, Andrew R.	Univ. of California at Santa Barbara
17:00-17:20	WeC19.4

<i>Results on Input-To-Output and Input-Output-To-State Stability for Hybrid Systems and Their Interconnections</i> , pp. 2396-2401.	
Sanfelice, Ricardo G.	Univ. of Arizona
17:20-17:40	WeC19.5
<i>Stability of Signal Transformation Method for Triangular Waveform Tracking</i> , pp. 2402-2407.	
Bazaei, Ali	Univ. of Newcastle, Australia
Moheimani, S.O. Reza	Univ. of Newcastle
Sebastian, Abu	IBM Res.
17:40-18:00	WeC19.6
<i>Construction of Lyapunov Functions for Piecewise-Deterministic Markov Processes</i> , pp. 2408-2413.	
Mesquita, Alexandre	UCSB
Hespanha, Joao P.	Univ. of California, Santa Barbara
WeC20	Room 306
Stability III (Regular Session)	
Chair: Chaillet, Antoine	Univ. Paris Sud
Co-Chair: Bian, Wenming	Univ. of Southampton
16:00-16:20	WeC20.1
<i>Stability and Strong Passivity of Nonlinear Descriptor Systems</i> , pp. 2414-2419.	
Yang, Chunyu	Northeastern Univ.
Zhang, Qingling	Northeastern Univ.
Chai, Tianyou	Northeastern Univ.
Ding, Jinliang	Northeastern Univ.
16:20-16:40	WeC20.2
<i>Absolute Stability of Lur'e Systems: A Complementarity and Passivity Approach</i> , pp. 2420-2425.	
Iervolino, Raffaele	Univ. Degli Studi Di Napoli Federico II
Iannelli, Luigi	Univ. of Sannio in Benevento
Vasca, Francesco	Univ. of Sannio
16:40-17:00	WeC20.3
<i>Towards Backstepping Design for Incremental Stability</i> , pp. 2426-2431.	
Zamani, Majid	Univ. of California at Los Angeles
Tabuada, Paulo	Univ. of California at Los Angeles
17:00-17:20	WeC20.4
<i>Interpreting the Liss Small-Gain Theorem As Transient Plus ISS Small-Gain Regulation</i> , pp. 2432-2437.	
Ito, Hiroshi	Kyushu Inst. of Tech.
Freeman, Randy	Northwestern Univ.
Chaillet, Antoine	Univ. Paris Sud
17:20-17:40	WeC20.5
<i>Computation of Zames-Falb Multipliers Revisited</i> , pp. 2438-2443.	
Chang, Michael	Univ. of Southern California
Mancera, Ricardo	Univ. of Southern California
Safonov, Michael G.	Univ. of Southern California
17:40-18:00	WeC20.6
<i>Complexity Reduction of Stable Nonlinear Systems</i> , pp. 2444-2449.	
Bian, Wenming	Univ. of Southampton
French, Mark	Univ. of Southampton
WeC21	Room 307
Plug and Play Control (Invited Session)	
Chair: Stoustrup, Jakob	Aalborg Univ.
Co-Chair: Patton, Ron J.	Univ. of Hull
Organizer: Stoustrup, Jakob	Aalborg Univ.
Organizer: Patton, Ron J.	Univ. of Hull
16:00-16:20	WeC21.1
<i>Quantized Pressure Control in Large-Scale Nonlinear Hydraulic Networks (I)</i> , pp. 2450-2455.	
De Persis, Claudio	Sapienza Univ. of Rome
Kallesře, Carsten Skovmose	Grundfos Management A/S
Jensen, Tom N.	Aalborg Univ.
16:20-16:40	WeC21.2
<i>High Level Model Predictive Control for Plug-And-Play Process Control with Stability Guaranty (I)</i> , pp. 2456-2461.	
Michelsen, Axel Gottlieb	Aalborg Univ.
Stoustrup, Jakob	Aalborg Univ.
16:40-17:00	WeC21.3
<i>Fault Tolerant Plug and Play Vibration Control in Building Structures (I)</i> , pp. 2462-2467.	
Larbah, Eshag	Univ. of Hull
Patton, Ron J.	Univ. of Hull
17:00-17:20	WeC21.4
<i>Hierarchical Model Predictive Control for Resource Distribution (I)</i> , pp. 2468-2473.	
Bendtsen, Jan Dimon	Aalborg Univ.
Trangbaek, Klaus	Aalborg Univ.
Stoustrup, Jakob	Aalborg Univ.

17:20-17:40		WeC21.5
<i>Optimal Input Strategy for Plug and Play Process Control Systems (I)</i> , pp. 2474-2479.		
Kragelund, Martin		Aalborg Univ.
Leth, John		Aalborg Univ.
Wisniewski, Rafal		Aalborg Univ.
17:40-18:00		WeC21.6
<i>Synthesis of Networked Switching Linear Decentralized Controllers</i> , pp. 2480-2485.		
Barcelli, Davide		Univ. of Siena
Bernardini, Daniele		Univ. of Siena
Bemporad, Alberto		Univ. of Trento

WeC22

Room 308

Images in the Loop: Control Theory Meets Image Analysis (Invited Session)

Chair: Vela, Patricio A.		Georgia Inst. of Tech.
Co-Chair: Niethammer, Marc		Univ. of North Carolina, Chapel Hill
Organizer: Vela, Patricio A.		Georgia Inst. of Tech.
Organizer: Niethammer, Marc		Univ. of North Carolina, Chapel Hill
16:00-16:20		WeC22.1
<i>Visual Feedback Attitude Synchronization in Leader-Follower Type Visibility Structures (I)</i> , pp. 2486-2491.		
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
16:20-16:40		WeC22.2
<i>Vision-Based Cooperative Estimation Via Multi-Agent Optimization (I)</i> , pp. 2492-2497.		
Hatanaka, Takeshi		Tokyo Inst. of Tech.
Fujita, Masayuki		Tokyo Inst. of Tech.
Bullo, Francesco		Univ. California at Santa Barbara
16:40-17:00		WeC22.3
<i>A Local Extended Kalman Filter for Visual Tracking (I)</i> , pp. 2498-2504.		
Ndiour, Ibrahima J.		Georgia Inst. of Tech.
Vela, Patricio A.		Georgia Inst. of Tech.
17:00-17:20		WeC22.4
<i>Vision-Based Target Tracking and Motion Estimation Using a Small UAV (I)</i> , pp. 2505-2510.		
Li, Zhiyuan		Univ. of Illinois, Urbana-Champaign
Hovakimyan, Naira		Univ. of Illinois, Urbana-Champaign
Dobrokhodov, Vladimir		Naval Postgraduate School
Kaminer, Isaac		Naval Postgraduate School
17:20-17:40		WeC22.5
<i>Adaptive Control Using Quantized Measurements with Application to Vision-Only Landing Control</i> , pp. 2511-2516.		
Sharon, Yoav		Univ. of Illinois, Urbana-Champaign
Liberzon, Daniel		Univ. of Illinois, Urbana-Champaign
Ma, Yi		Univ. of Illinois, Urbana-Champaign
17:40-18:00		WeC22.6
<i>Path Tracking in Underwater Vehicle Navigation - On-Line Evaluation of Guidance Path Errors Via Vision Sensor</i> , pp. 2517-2522.		
Jordan, Mario A.		Argentinean Inst. of Oceanography
Berger, Carlos		Argentinean Inst. of Oceanography (IADO-CONICET)
Bustamante, Jorge Luis		Argentinean Inst. of Oceanography
Hansen, Santiago		Univ. Nacional de Santiago del Estero (UNSE), Argentina

WeC23

Grand Salon A

Control Theory and Biology - Applications and Experimental Approaches (Invited Session)

Chair: Franco, Elisa		California Inst. of Tech.
Co-Chair: Klavins, Eric		Univ. of Washington
Organizer: Franco, Elisa		California Inst. of Tech.
Organizer: Dunlop, Mary J.		Lawrence Berkeley National Lab.
16:00-16:20		WeC23.1
<i>The Effect of Retroactivity on the Transfer Function of a Phosphorylation System (I)</i> , pp. 2523-2528.		
Del Vecchio, Domitilla		Massachusetts Institute of Tech.
16:20-16:40		WeC23.2
<i>Structural Identification of Unate-Like Genetic Network Models from Time-Lapse Protein Concentration Measurements (I)</i> , pp. 2529-2534.		
Porreca, Riccardo		ETH Zurich
Cinquemani, Eugenio		INRIA Rhone-Alpes
Lygeros, John		ETH Zurich
Ferrari-Trecate, Giancarlo		Univ. degli Studi di Pavia
16:40-17:00		WeC23.3
<i>Design and Implementation of a Feedback Control Strategy for IRMA, a Novel Synthetic Gene Regulatory Network (I)</i> , pp. 2535-2540.		
Menolascina, Filippo		Telethon Inst. for Genetics and Medicine
Di Bernardo, Mario		Univ. of Naples Federico II
di Bernardo, Diego		Telethon Inst. of Genetics and Medicine
17:00-17:20		WeC23.4

Control Circuitry for Fear Conditioning Associated with Post-Traumatic Stress Disorder (I) , pp. 2541-2546.	UCSB UCSB Univ. of California at Santa Barbara
Yang, Ruoting K, Sriram Doyle, Francis	
17:20-17:40	WeC23.5
Proportional-Integral Control of Stochastic Gene Regulatory Networks (I) , pp. 2547-2553.	Univ. of Washington
Klavins, Eric	
17:40-18:00	WeC23.6
Tuning a Synthetic in Vitro Oscillator Using Control-Theoretic Tools (I) , pp. 2554-2559.	Royal Inst. of Tech. California Inst. of Tech. California Inst. of Tech.
Sturk, Christopher Franco, Elisa Murray, Richard M.	
WeCT	Grand Salon B
Networked Control Systems: Applications and Research Challenges (Tutorial Session)	
Chair: Baheti, Radhakisan Co-Chair: Gupta, Vijay	National Science Foundation Univ. of Notre Dame
16:00-16:20	WeCT.1
Towards a Unified View of Communication and Control (I)* .	
Mitter, Sanjoy K.	Massachusetts Inst. of Tech.
16:20-16:40	WeCT.2
NSF Programs in Networked Control Systems (I)* .	
Baheti, Radhakisan	National Science Foundation
16:40-17:00	WeCT.3
Challenges for Network Control System Proliferation (I)* .	
Poolla, Kameshwar	Univ. of California at Berkeley
17:00-17:20	WeCT.4
Distributed Estimation and Coordination for Human-Centric Networked Sensing and Control Systems (I)* .	
Olfati-Saber, Reza	Dartmouth Coll.
17:20-17:40	WeCT.5
Scheduling for Small Delays in Multi-Channel Wireless Networks (I)* .	
Shakkottai, Sanjay	The Univ. of Texas at Austin
17:40-18:00	WeCT.6
From Complex Networks to Emerging Markets: A New Undergraduate Degree in Market and Social Systems Engineering (I)* .	
Jadbabaie, Ali	Univ. of Pennsylvania

Thursday

ThPL	Grand Ballroom East
Randomization in Systems and Control: A Change of Perspective (Plenary Session)	
Chair: Spong, Mark W. Co-Chair: Ghorbel, Fathi H.	Univ. of Texas at Dallas Rice Univ.
08:30-09:30	ThPL.1
Randomization in Systems and Control: A Change of Perspective* .	
Campi, M. C.	Univ. di Brescia
ThA01	Room 201
Distributed Parameter Systems IV (Regular Session)	
Chair: Meurer, Thomas Co-Chair: Prieur, Christophe	Vienna Univ. of Tech. LAAS-CNRS
10:00-10:20	ThA01.1
Well-Posedness and Generic Exact Controllability of Coupled Systems , pp. 2560-2565.	
Zhao, Xiaowei Weiss, George	Univ. of Oxford Tel Aviv Univ.
10:20-10:40	ThA01.2
Motion Planning for a Damped Euler-Bernoulli Beam , pp. 2566-2571.	
Meurer, Thomas Schröck, Johannes Kugi, Andreas	Vienna Univ. of Tech. Univ. of Tech. Vienna Vienna Univ. of Tech.
10:40-11:00	ThA01.3
Greedy Sensor Selection: Leveraging Submodularity , pp. 2572-2577.	
Shamaiah, Manohar Banerjee, Siddhartha Vikalo, Haris	Univ. of Texas at Austin UT Austin Univ. of Texas at Austin
11:00-11:20	ThA01.4
Exact Boundary Controllability of an Abstract Mead-Marcus Sandwich Beam Model , pp. 2578-2583.	
Hansen, Scott	Iowa State Univ.

Ozer, A. Ozkan	Iowa State Univ.
11:20-11:40	ThA01.5
<i>Boundary Control of a Vibrating String under Unknown Time-Varying Disturbance</i> , pp. 2584-2589.	
He, Wei	National Univ. of Singapore
Ge, Shuzhi Sam	National Univ. of Singapore
Hang, Chang Chieh	National Univ. of Singapore
Hong, Keum-Shik	Pusan National Univ.
11:40-12:00	ThA01.6
<i>Boundary Control of a Flexible Marine Installation System</i> , pp. 2590-2595.	
Ge, Shuzhi Sam	National Univ. of Singapore
He, Wei	National Univ. of Singapore
Ren, Beibei	National Univ. of Singapore
Choo, Yoo Sang	National Univ. of Singapore

ThA02

Room 202

Adaptive Control IV (Regular Session)

Chair: Miller, Daniel E.	Univ. of Waterloo
Co-Chair: Miyasato, Yoshihiko	Inst. of Statistical Mathematics
10:00-10:20	ThA02.1
<i>Pole Placement Adaptive Control with Persistent Jumps in the Plant Parameters</i> , pp. 2596-2601.	
Miller, Daniel	Univ. of Waterloo
Vale, Julie	Univ. of Waterloo
10:20-10:40	ThA02.2
<i>A Robust Adaptive Observer for Nonlinear Systems with Unknown Inputs and Disturbances</i> , pp. 2602-2607.	
Dimassi, Habib	CNRS
Loria, Antonio	LSS-SUPELEC
10:40-11:00	ThA02.3
<i>Adaptive Controller Design and Disturbance Attenuation for a General Class of Sequentially Interconnected SISO Linear Systems with Noisy Output Measurements</i> , pp. 2608-2613.	
Zeng, Sheng	CareFusion Corp.
11:00-11:20	ThA02.4
<i>Adaptive H-Infinity Formation Control for Euler-Lagrange Systems</i> , pp. 2614-2619.	
Miyasato, Yoshihiko	Inst. of Statistical Mathematics
11:20-11:40	ThA02.5
<i>Adaptive Control of Flexible Structures Using Residual Mode Filters</i> , pp. 2620-2624.	
Balas, Mark	Univ. of Wyoming
Frost, Susan	NASA Ames Res. Center
11:40-12:00	ThA02.6
<i>Dissipative Design of Adaptive Observers for Systems with Multivalued Nonlinearities</i> , pp. 2625-2630.	
Guzman, Eder	Univ. Nacional Autonoma de México
Moreno, Jaime A.	Univ. Nacional Autonoma de Mexico-UNAM

ThA03

Room 203

Stochastic Systems I (Regular Session)

Chair: González, Oscar R.	Old Dominion Univ.
Co-Chair: Gray, W. Steven	Old Dominion Univ.
10:00-10:20	ThA03.1
<i>On the Local Convergence of Fliess Operators Driven by L2-Ito Random Processes</i> , pp. 2631-2637.	
Duffaut Espinosa, Luis Augusto	Old Dominion Univ.
Gray, W. Steven	Old Dominion Univ.
González, Oscar R.	Old Dominion Univ.
10:20-10:40	ThA03.2
<i>Gossip Protocol on the Ad Hoc Networks and Its Approximated Saturation</i> , pp. 2638-2643.	
Ishikawa, Tetsuya	Tokyo Inst. of Tech.
Hayakawa, Tomohisa	Tokyo Inst. of Tech.
10:40-11:00	ThA03.3
<i>On Stability of Switched Time-Delay Systems Subject to Nonlinear Stochastic Perturbations</i> , pp. 2644-2649.	
Chen, Yun	Hangzhou Dianzi Univ.
Zheng, Wei Xing	Univ. of Western Sydney
11:00-11:20	ThA03.4
<i>Gaussianization of Random Inputs by Filtering Plants: The Case of Poisson White and Telegraph Processes</i> , pp. 2650-2655.	
Ching, ShiNung	Massachusetts Inst. of Tech.
Meerkov, Semyon M.	Univ. of Michigan
Runolfsson, Thordur	The Univ. of Oklahoma
11:20-11:40	ThA03.5
<i>Approximation and Limiting Behavior of Random Models</i> , pp. 2656-2663.	
Touri, Behrouz	Univ. of Illinois, Urbana-Champaign
Nedich, Angelia	Univ. of Illinois, Urbana-Champaign
11:40-12:00	ThA03.6
<i>Risk-Constrained Markov Decision Processes</i> , pp. 2664-2669.	

ThA04		Room 204
Decentralised Network Analysis, Control and Optimisation (Invited Session)		
Chair: Preciado, Victor M.		Univ. of Pennsylvania
Co-Chair: Anderson, James		Univ. of Oxford
Organizer: Goncalves, Jorge M.		Univ. of Cambridge
Organizer: Papachristodoulou, Antonis		Univ. of Oxford
10:00-10:20		ThA04.1
<i>Structured Model Reduction for Dynamical Networked Systems (I)</i> , pp. 2670-2675.		
Papachristodoulou, Antonis		Univ. of Oxford
Chang, Yo-Cheng		Univ. of Oxford
August, Elias		ETH
Anderson, James		Univ. of Oxford
10:20-10:40		ThA04.2
<i>Minimal-Time Network Reconstruction for DTLTI Systems (I)</i> , pp. 2676-2681.		
Yuan, Ye		Univ. of Cambridge
Goncalves, Jorge M.		Univ. of Cambridge
10:40-11:00		ThA04.3
<i>Distributed Performance Analysis of Heterogeneous Systems (I)</i> , pp. 2682-2685.		
Rantzer, Anders		Lund Univ.
11:00-11:20		ThA04.4
<i>From Local Measurements to Network Spectral Properties: Beyond Degree Distributions (I)</i> , pp. 2686-2691.		
Preciado, Victor M.		Univ. of Pennsylvania
Jadbabaie, Ali		Univ. of Pennsylvania
11:20-11:40		ThA04.5
<i>Leader Selection for Optimal Network Coherence (I)</i> , pp. 2692-2697.		
Patterson, Stacy		Univ. of California at Santa Barbara
Bamieh, Bassam		Univ. of California at Santa Barbara
11:40-12:00		ThA04.6
<i>An Algebraic Framework for Quadratic Invariance (I)</i> , pp. 2698-2703.		
Lessard, Laurent		Stanford Univ.
Lall, Sanjay		Stanford Univ.
ThA05		Room 205
Nonlinear Systems I (Regular Session)		
Chair: Allgower, Frank		Univ. of Stuttgart
Co-Chair: Chitour, Yacine		Univ. Paris-Sud, CNRS, Supelec
10:00-10:20		ThA05.1
<i>A Design Solution to the Problem of Adaptive Output Regulation for Nonlinear Minimum-Phase Systems</i> , pp. 2704-2709.		
Isidori, Alberto		Univ. di Roma "La Sapienza"
Marconi, Lorenzo		Univ. di Bologna
Praly, Laurent		MINES ParisTech
10:20-10:40		ThA05.2
<i>Reachability and Controllability of a Particle in a Dielectrophoretic System</i> , pp. 2710-2715.		
Simha, Harsha		IIT Bombay
Banavar, Ravi N.		Indian Inst. of Tech.
Chang, Dong Eui		Univ. of Waterloo
10:40-11:00		ThA05.3
<i>On the Endpoint Maps of Fully Nonlinear Control Systems That Use Locally L^p Controls</i> , pp. 2716-2722.		
Amiss, Scott		Queen's Univ.
Guay, Martin		Queen's Univ.
11:00-11:20		ThA05.4
<i>Robustness of L_1 Adaptive Controllers in the Gap Metric in the Presence of Nonzero Initialization</i> , pp. 2723-2728.		
Li, Dapeng		University of Illinois
Hovakimyan, Naira		Univ. of Illinois, Urbana-Champaign
Georgiou, Tryphon T.		Univ. of Minnesota
11:20-11:40		ThA05.5
<i>A Bounded Real Lemma for Nonlinear L_2-Gain</i> , pp. 2729-2734.		
Zhang, Huan		The Univ. of Melbourne
Dower, Peter M.		The Univ. of Melbourne
Kellett, Christopher		Univ. of Newcastle
11:40-12:00		ThA05.6
<i>A Necessary Condition for Dynamic Equivalence*</i> .		
Pomet, Jean-Baptiste		INRIA
ThA06		Room 206
Energy Systems II (Regular Session)		
Chair: Laghrouche, Salah		UTBM

Co-Chair: Zaccarian, Luca	Univ. di Roma, Tor Vergata
10:00-10:20	ThA06.1
<i>An Anti-Windup-Based Solution for the Low Current Nonlinearity Compensation on the FTU Horizontal Position Controller</i> , pp. 2735-2740.	
Vitelli, Riccardo	Univ. of Rome, Tor Vergata
Boncagni, Luca	ENEA
Mecocci, Francesco	Univ. of Rome, Tor Vergata
Podda, Salvatore	ENEA
Vitale, Vincenzo	ENEA
Zaccarian, Luca	Univ. di Roma, Tor Vergata
10:20-10:40	ThA06.2
<i>Chiller Plant Optimization - an Integrated Optimization Approach for Chiller Sequencing and Control</i> , pp. 2741-2746.	
Torzhev, Andrey	Siemens Corp. Res.
Sharma, Puneet	Siemens Corp. Res.
Li, Chengbo	Intern - Siemens Corp. Res.
Toso, Rodrigo	Intern - Siemens Corp. Res.
Chakraborty, Amit	Siemens Corp. Res.
10:40-11:00	ThA06.3
<i>Linear Dynamics and Control of a Kinematic Wobble-Yoke Stirling Engine</i> , pp. 2747-2752.	
Alvarez-Aguirre, Alejandro	Eindhoven Univ. of Tech.
Garcia-Canseco, Eloisa	Eindhoven Univ. of Tech.
Scherpen, Jacquelin M.A.	Univ. of Groningen
11:00-11:20	ThA06.4
<i>Results on Plasma Position and Elongation Regulation at FTU Using Dynamic Input Allocation</i> , pp. 2753-2758.	
Varano, Gianluca	Univ. di Roma Tor Vergata
Boncagni, Luca	ENEA
Galeani, Sergio	Univ. Di Roma Tor Vergata
Granucci, Gustavo	IFP-CNR
Vitale, Vincenzo	ENEA
Zaccarian, Luca	Univ. di Roma, Tor Vergata
11:20-11:40	ThA06.5
<i>Adaptive Critic Design-Based Regulation of the DC Bus Voltage in Wind Energy Conversion Systems (WECS)</i> , pp. 2759-2764.	
Azzouz, Maher	Cairo Univ.
Elshafei, Abdel Latif	Faculty of Engineering
Emara, Hassan M.	Faculty of Engineering Cairo Univ.
11:40-12:00	ThA06.6
<i>Second Order Sliding Mode Control for PEM Fuel Cells</i> , pp. 2765-2770.	
Matraji, Imad	UTBM
Laghrouche, Salah	UTBM
Wack, Maxime	UTBM
ThA07	Room 207
Petri Nets and Queueing Systems (Regular Session)	
Chair: Mahulea, Cristian	Univ. of Zaragoza
Co-Chair: Neely, Michael J.	Univ. of Southern California
10:00-10:20	ThA07.1
<i>Minimum-Time Control for Structurally Persistent Continuous Petri Nets</i> , pp. 2771-2776.	
Wang, Liewei	The Univ. of Zaragoza
Mahulea, Cristian	Univ. of Zaragoza
Julvez, Jorge	Univ. of Zaragoza
Silva, Manuel	Univ. De Zaragoza
10:20-10:40	ThA07.2
<i>Stock Market Trading Via Stochastic Network Optimization</i> , pp. 2777-2784.	
Neely, Michael J.	Univ. of Southern California
10:40-11:00	ThA07.3
<i>A Method of Computing Strict Minimal Siphons in an S3PR Based on Resource Circuits</i> , pp. 2785-2790.	
Wang, Shouguang	Zhejiang Gongshang Univ.
Wang, Chengying	Zhejiang Gongshang Univ.
Yu, Yanping	Zhejiang Gongshang Univ.
11:00-11:20	ThA07.4
<i>Optimal Admission to an M/M/k/N Queue with Several Customer Types and Holding Costs</i> , pp. 2791-2796.	
Feinberg, Eugene A.	SUNY at Stony Brook
Yang, Fenghsu	Stony Brook Univ.
11:20-11:40	ThA07.5
<i>Synthesis of Maximally-Permissive Liveness-Enforcing Control Policies for Gadara Petri Nets</i> , pp. 2797-2804.	
Liao, Hongwei	Univ. of Michigan, Ann Arbor
Lafortune, Stephane	Univ. of Michigan
Reveliotis, Spyros A.	Georgia Inst. of Tech.
Wang, Yin	Hewlett-Packard
Mahlke, Scott	Univ. of Michigan, Ann Arbor
11:40-12:00	ThA07.6
<i>Dynamic Product Assembly and Inventory Control for Maximum Profit</i> , pp. 2805-2812.	

ThA08		Room 208
Subspace Methods (Regular Session)		
Chair: Wahlberg, Bo Co-Chair: Verhaegen, Michel		Royal Inst. of Tech. Delft Univ. of Tech.
10:00-10:20		ThA08.1
<i>Closed-Loop MOESP Subspace Model Identification with Parametrisable Disturbances</i> , pp. 2813-2818.		
van der Veen, Gijs van Wingerden, Jan-Willem Verhaegen, Michel		Delft Univ. of Tech. Delft Univ. of Tech. Delft Univ. of Tech.
10:20-10:40		ThA08.2
<i>Progressive Parametrization in Subspace Identification Models with Finite Horizons</i> , pp. 2819-2824.		
Qin, S. Joe Zhao, Yu Sun, Zhijie Yuan, Tao		Univ. of Southern California Univ. of Southern California Univ. of Southern California Univ. of Southern California
10:40-11:00		ThA08.3
<i>A Fast Automatic Construction Algorithm for Kernel Fisher Discriminant Classifiers</i> , pp. 2825-2830.		
Deng, Jing Li, Kang Irwin, George W. Harrison, Robert F.		Queen's Univ. Belfast Queen's Univ. Belfast Queen's Univ. of Belfast Univ. of Sheffield
11:00-11:20		ThA08.4
<i>On Computing Multi-Dimensional Generalized Extreme and Intermediate Eigen Subspaces</i> , pp. 2831-2836.		
Hasan, Mohammed A.		Univ. of Minnesota
11:20-11:40		ThA08.5
<i>Multi-Step-Ahead Multivariate Predictors: A Comparative Analysis</i> , pp. 2837-2842.		
Cescon, Marzia Johansson, Rolf		Lund Univ. Lund Univ.
11:40-12:00		ThA08.6
<i>On Subspace Identification of Cascade Structured Systems</i> , pp. 2843-2848.		
Hägg, Per Wahlberg, Bo Sandberg, Henrik		KTH Royal Inst. of Tech. Royal Inst. of Tech. (KTH)
ThA09		Room 209
Developments in System Identification and Estimation (Invited Session)		
Chair: Pasik-Duncan, Bozenna Co-Chair: Ljung, Lennart Organizer: Pasik-Duncan, Bozenna Organizer: Ljung, Lennart		Univ. of Kansas Linköping Univ. Univ. of Kansas Linköping Univ.
10:00-10:20		ThA09.1
<i>Second Order Fluctuations of TD(λ) and a Positive Real Condition (I)</i> , pp. 2849-2854.		
Solo, Victor		Univ. of New South Wales
10:20-10:40		ThA09.2
<i>Closed-Loop Optimal Experiment Design: The Partial Correlation Approach (I)</i> , pp. 2855-2862.		
Hildebrand, Roland Gevers, Michel Solari, Gabriel Elías		Univ. Grenoble 1/CNRS Univ. Catholique de Louvain Univ. Catholique de Louvain
10:40-11:00		ThA09.3
<i>Identification of State-Space Systems Using a Dual Time-Frequency Domain Approach (I)</i> , pp. 2863-2868.		
Agüero, Juan C. Yuz, Juan I. Goodwin, Graham C. Wei, Tang		Univ. of Newcastle Univ. Tecnica Federico Santa Maria Univ. of Newcastle Northwestern Pol. Univ.
11:00-11:20		ThA09.4
<i>Frequency Estimation of NarrowBand Signals in Gaussian Noise Via Unscented Kalman Filter (I)</i> , pp. 2869-2874.		
Corbetta, Stefano Dardanelli, Andrea Boniolo, Ivo Savaresi, Sergio M. Bittanti, Sergio		Pol. di Milano Pol. di Milano Pol. di Milano Pol. Di Milano Pol. di Milano
11:20-11:40		ThA09.5
<i>Singular Autoregressions for Generalized Dynamic Factor Models (I)</i> , pp. 2875-2879.		
Deistler, Manfred Filler, Alexander Anderson, Brian D.O. Chen, Wei-tian Felsenstein, Elisabeth		Tech. Univ. of Vienna Tech. Univ. of Vienna Australian National Univ. Australian National Univ. Tech. Univ. of Vienna

11:40-12:00 ThA09.6
State Smoothing by Sum-Of-Norms Regularization (I), pp. 2880-2885.
 Ohlsson, Henrik Linköping Univ.
 Gustafsson, Fredrik Linköping Univ.
 Ljung, Lennart Linköping Univ.
 Boyd, Stephen P. Stanford Univ.

ThA10 Room 210

Integrated Vehicle Dynamics and Control (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.
 Organizer: Borrelli, Francesco University of California at Berkeley

10:00-10:20 ThA10.1

Driver-Assist Steering by Active Front Steering and Differential Braking: Design, Implementation and Experimental Evaluation of a Switched Model Predictive Control Approach (I), pp. 2886-2891.

Di Cairano, Stefano Ford Motor Company
 Tseng, Eric Ford Motor Company

10:20-10:40 ThA10.2

A Methodology for Optimal Semi-Active Suspension Systems Performance Evaluation (I), pp. 2892-2897.

Poussot-Vassal, Charles ONERA
 Savaresi, Sergio M. Pol. Di Milano
 Spelta, Cristiano Univ. degli studi di Bergamo
 Sename, Olivier Grenoble Inst. of Tech.
 Dugard, Luc CNRS-Grenoble INP

10:40-11:00 ThA10.3

A Direct Moving Horizon Approach to Vehicle Side-Slip Angle Estimation (I), pp. 2898-2903.

Canale, Massimo Pol. di Torino
 Fagiano, Lorenzo Pol. di Torino
 Novara, Carlo Pol. di Torino

11:00-11:20 ThA10.4

Parameter Identification and Adaptive Control for Improved Vehicle Yaw Stability Performance (I), pp. 2904-2909.

Kahveci, Nazli E. Ford Motor Company
 Ioannou, Petros A. Univ. of Southern California

11:20-11:40 ThA10.5

Vehicle-Longitudinal-Motion-Independent Real-Time Tire-Road Friction Coefficient Estimation (I), pp. 2910-2915.

Chen, Yan Ohio State Univ.
 Wang, Junmin Ohio State Univ.

11:40-12:00 ThA10.6

Wheel Slip Control Using Energy Shaping, pp. 2916-2921.

Koopman, Johan Delft Univ. of Tech.
 Jeltsema, Dimitri Delft Univ. of Tech.
 Verhaegen, Michel Delft Univ. of Tech.

ThA11 Room 211

Exploiting Sparsity and Compressive Sensing in System Identification (Invited Session)

Chair: Wakin, Michael Colorado School of Mines
 Co-Chair: Rozell, Christopher Georgia Inst. of Tech.
 Organizer: Vincent, Tyrone L. Colorado School of Mines
 Organizer: Rozell, Christopher Georgia Inst. of Tech.
 Organizer: Wakin, Michael Colorado School of Mines

10:00-10:20 ThA11.1

Concentration of Measure Inequalities for Compressive Toeplitz Matrices with Applications to Detection and System Identification (I), pp.

2922-2929.

Molazem Sanandaji, Borhan Colorado School of Mines
 Vincent, Tyrone L. Colorado School of Mines
 Wakin, Michael Colorado School of Mines

10:20-10:40 ThA11.2

Noisy Filtered Processes: Reconstruction and Compression (I), pp. 2930-2935.

Saligrama, Venkatesh Boston Univ.
 Zhao, Manqi Boston Univ.

10:40-11:00 ThA11.3

An Overview of Recent Results on the Identification of Sparse Channels Using Random Probes (I), pp. 2936-2941.

Romberg, Justin Georgia Tech.

11:00-11:20 ThA11.4

Nonparametric Sparse Estimators for Identification of Large Scale Linear Systems (I), pp. 2942-2947.

Chiuso, Alessandro Univ. di Padova
 Pillonetto, Gianluigi Univ. of Padova

11:20-11:40 ThA11.5

Stable Takens' Embedding for Linear Dynamical Systems (I), pp. 2948-2953.

Yap, Han Lun	Georgia Inst. of Tech.
Rozell, Christopher	Georgia Inst. of Tech.
11:40-12:00	ThA11.6
Closed-Loop MIMO ARX Estimation of Concurrent External Plasma Response Eigenmodes in Magnetic Confinement Fusion , pp. 2954-2959.	
Olofsson, Erik	Royal Inst. of Tech.
Rojas, Cristian R.	ACCESS Linnaeus Center, KTH
Hjalmarsson, Hlkan	Royal Inst. of Tech.
Brunsell, Per	Royal Inst. of Tech.
Drake, James	Royal Inst. of Tech.

ThA12 Room 212

Fluid Flow Systems (Regular Session)

Chair: Kerrigan, Eric C.	Imperial Coll. London
Co-Chair: Schuster, Eugenio	Lehigh Univ.
10:00-10:20	ThA12.1
Flatness-Based Trajectory Planning for the Shallow Water Equations , pp. 2960-2965.	
Knüppel, Torsten	Tech. Univ. Dresden
Woittennek, Frank	Tech. Univ. Dresden
Rudolph, Joachim	Saarland Univ.
10:20-10:40	ThA12.2
Feedback Solution to a Bilinear Fluid Mixing Control Problem , pp. 2966-2971.	
Couchman, Ian	Imperial Coll.
Kerrigan, Eric C.	Imperial Coll. London
10:40-11:00	ThA12.3
Heat Exchange Enhancement by Extremum Seeking Boundary Feedback Control in 3D Magnetohydrodynamic Channel Flow , pp. 2972-2978.	
Luo, Lixiang	Lehigh Univ.
Schuster, Eugenio	Lehigh Univ.
11:00-11:20	ThA12.4
Attenuation of Vortex Shedding in CFD Simulations by Model-Based Output Feedback Control , pp. 2979-2984.	
Milovanovic, Milan	NTNU
Aamo, Ole Morten	NTNU
11:20-11:40	ThA12.5
Feedback Stabilization of Reaction-Diffusion Equation in a Two-Dimensional Region , pp. 2985-2989.	
Li, Guoping	Southwest Univ.
Xie, Chengkang	Southwest Univ.
11:40-12:00	ThA12.6
Under-Actuated Control and Distribution of Multi-Agent Systems in Stratified Flow Environments , pp. 2990-2995.	
Krohn, Robert	Univ. of California, San Diego
Bewley, Thomas R.	UC San Diego

ThA13 Room 213

Quantum Information and Control (Regular Session)

Chair: Ticozzi, Francesco	Univ. di Padova
Co-Chair: Nurdin, Hendra Ishwara	Australian National Univ.
10:00-10:20	ThA13.1
An Efficient Computational Method for the Optimal Control of Higher Dimensional Quantum Systems , pp. 2996-3001.	
Sridharan, Srinivas	Australian National Univ.
Gu, Mile	National Univ. of Singapore
James, Matthew R.	Australian National Univ.
McEneaney, William	Univ. of California, San Diego
10:20-10:40	ThA13.2
On Synthesis of Linear Quantum Stochastic Systems by Pure Cascading , pp. 3002-3007.	
Nurdin, Hendra Ishwara	Australian National Univ.
10:40-11:00	ThA13.3
Optimal Ensemble Control of Open Quantum Systems with a Pseudospectral Method , pp. 3008-3013.	
Ruths, Justin	Washington Univ. in Saint Louis
Li, Jr-Shin	Washington Univ. in St. Louis
11:00-11:20	ThA13.4
Low Frequency Approximation for a Class of Linear Complex Quantum Systems Using Cascade Cavity Realization , pp. 3014-3021.	
Petersen, Ian R.	Univ. of New South Wales
11:20-11:40	ThA13.5
Computing and Controlling the Convergence Speed of Quantum Dynamical Semigroups , pp. 3022-3027.	
Lucchese, Riccardo	Univ. di Padova
Ticozzi, Francesco	Univ. di Padova
11:40-12:00	ThA13.6
Motion Planning in Quantum Control Via Intersection of Eigenvalues , pp. 3028-3033.	
Boscain, Ugo V.	CNRS
Chittaro, Francesca	L2S Supelec

ThA14

Room 214

Adaptive Dynamic Programming and Reinforcement Learning for Feedback Control (Invited Session)

- Chair: Jagannathan, Sarangapani Missouri Univ. of Science & Tech.
Co-Chair: Lewis, Frank L. Univ. of Texas at Arlington
Organizer: Jagannathan, Sarangapani Missouri Univ. of Science & Tech.
Organizer: Lewis, Frank L. Univ. of Texas at Arlington
- 10:00-10:20 ThA14.1
Pathologies of Temporal Difference Methods in Approximate Dynamic Programming, pp. 3034-3039.
Bertsekas, Dimitri P. Massachusetts Inst. of Tech.
- 10:20-10:40 ThA14.2
Online Solution of Nonlinear Two-Player Zero-Sum Games Using Synchronous Policy Iteration (I), pp. 3040-3047.
Vamvoudakis, Kyriakos Univ. of Texas at Arlington
Lewis, Frank L. Univ. of Texas at Arlington
- 10:40-11:00 ThA14.3
Optimal Control of Affine Nonlinear Continuous-Time Systems Using an Online Hamilton-Jacobi-Isaacs Formulation (I), pp. 3048-3053.
Dierks, Travis DRS Sustainment Systems, Inc.
Jagannathan, Sarangapani Missouri Univ. of Science & Tech.
- 11:00-11:20 ThA14.4
A Single Network Approximate Dynamic Programming Based Constrained Optimal Controller for Nonlinear Systems with Uncertainties (I),
pp. 3054-3059.
Ding, Jie Missouri Univ. of Science and Tech.
Balakrishnan, S.N. Missouri Univ. of Science and Tech.
- 11:20-11:40 ThA14.5
A Model-Free Robust Policy Iteration Algorithm for Optimal Control of Nonlinear Systems (I), pp. 3060-3065.
Bhasin, Shubhendu Univ. of Florida
Johnson, Marcus Univ. of Florida
Dixon, Warren E. Univ. of Florida
- 11:40-12:00 ThA14.6
Integral Reinforcement Learning for Online Computation of Feedback Nash Strategies of Nonzero-Sum Differential Games (I), pp.
3066-3071.
Vrabie, Draguna Univ. of Texas at Arlington
Lewis, Frank L. Univ. of Texas at Arlington

ThA15

Room 301

Cooperative Control I (Regular Session)

- Chair: Aghdam, Amir G. Concordia Univ.
Co-Chair: Werner, Herbert Hamburg Univ. of Tech.
- 10:00-10:20 ThA15.1
A Class of Bounded Distributed Controllers for Connectivity Preservation of Unicycles, pp. 3072-3077.
Ajorlou, Amir Concordia Univ.
Aghdam, Amir G. Concordia Univ.
- 10:20-10:40 ThA15.2
Consensus of Multi-Agent Systems with Time-Varying Delay, pp. 3078-3083.
Liu, Huiyang Peking Univ.
Xie, Guangming Peking Univ.
Wang, Long Peking Univ.
- 10:40-11:00 ThA15.3
Distributed Control of Formation Flying Spacecraft Using Deterministic Communication Schedulers, pp. 3084-3090.
Jafari, Saeid Univ. of Southern California
Ajorlou, Amir Concordia Univ.
Aghdam, Amir G. Concordia Univ.
Tafazoli, Siamak Concordia Univ.
- 11:00-11:20 ThA15.4
Cooperative Defense within a Single-Pursuer, Two-Evader Pursuit Evasion Differential Game, pp. 3091-3097.
Fuchs, Zachariah Univ. of Florida
Khargonekar, Pramod P. Univ. of Florida
Evers, Johnny US Air Force
- 11:20-11:40 ThA15.5
Local Controller Synthesis for Multi-Agent Systems Subject to Time-Varying Communication Delays, pp. 3098-3103.
Piiz, Ulf Hamburg Univ. of Tech.
Werner, Herbert Hamburg Univ. of Tech.
- 11:40-12:00 ThA15.6
Robust Dynamic Average Consensus of Time-Varying Inputs, pp. 3104-3109.
Bai, He Northwestern Univ.
Freeman, Randy Northwestern Univ.
Lynch, Kevin M. Northwestern Univ.

ThA16		Room 302
Mean Field Stochastic Systems and Control (Invited Session)		
Chair: Caines, Peter E.		McGill Univ.
Co-Chair: Huang, Minyi		Carleton Univ.
Organizer: Caines, Peter E.		McGill Univ.
Organizer: Huang, Minyi		Carleton Univ.
Organizer: Malhame, Roland P.		Ec. Pol. de Montreal
Organizer: Weintraub, Gabriel		Columbia Business School
Organizer: Johari, Ramesh		Stanford Univ.
Organizer: Adlakha, Sachin		Stanford Univ.
10:00-10:20		ThA16.1
<i>Decentralized Adaptive Games for Large Population Coupled ARX Systems with Unknown Coupling Strength (I)</i> , pp. 3110-3115.		
Li, Tao		Chinese Acad. of Sciences
Zhang, Ji-Feng		Chinese Acad. of Sciences
10:20-10:40		ThA16.2
<i>Mean Field Approximations of Markov Perfect Equilibria of Stochastic Games (I)</i> , pp. 3116-3124.		
Bodoh-Creed, Aaron		Cornell Univ.
10:40-11:00		ThA16.3
<i>On Oblivious Equilibrium in Large Population Stochastic Games (I)</i> , pp. 3117-3124.		
Adlakha, Sachin		Stanford Univ.
Johari, Ramesh		Stanford Univ.
Weintraub, Gabriel		Columbia Business School
Goldsmith, Andrea		Stanford Univ.
11:00-11:20		ThA16.4
<i>Learning in Mean-Field Oscillator Games (I)</i> , pp. 3125-3132.		
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
11:20-11:40		ThA16.5
<i>Robust Comparative Statics in Large Static Games (I)</i> , pp. 3133-3139.		
Acemoglu, Daron		MIT
Jensen, Martin Kaae		Univ. of Birmingham
11:40-12:00		ThA16.6
<i>Social Dynamics in Mean Field LQG Control: Egoistic and Altruistic Agents (I)</i> , pp. 3140-3145.		
Huang, Minyi		Carleton Univ.
Caines, Peter E.		McGill Univ.
Malhame, Roland P.		Ec. Pol. de Montreal

ThA17		Room 303
H-Infinity Control (Regular Session)		
Chair: Chen, Xiang		Univ. of Windsor
Co-Chair: Sato, Masayuki		Japan Aerospace Exploration Agency
10:00-10:20		ThA17.1
<i>Simultaneous H Infinity Vibration Control of Fluid/Plate System Via Reduced-Order Controller</i> , pp. 3146-3151.		
Robu, Bogdan		LAAS - CNRS
Pommier-Budinger, Valerie		Univ. de Bordeaux
Baudouin, Lucie		CNRS
Prieur, Christophe		LAAS-CNRS
Arzelier, Denis		LAAS-CNRS
10:20-10:40		ThA17.2
<i>Fixed-Structure Discrete-Time H_{∞} Controller Synthesis with HIFOO</i> , pp. 3152-3155.		
Popov, Andrey		Hamburg Univ. of Tech.
Werner, Herbert		Hamburg Univ. of Tech.
Millstone, Marc		New York Univ.
10:40-11:00		ThA17.3
<i>LQ Approach to an "All-Solutions" Formula for H-Infinity Output Feedback Control</i> , pp. 3156-3161.		
Karthikeyan, Anantha		Univ. of Southern California
Safonov, Michael G.		Univ. of Southern California
11:00-11:20		ThA17.4
<i>Discrete Time Multi-Objective H_2/H_{∞} Control</i> , pp. 3162-3167.		
Tahmasebi, Ali		Univ. of Windsor
Chen, Xiang		Univ. of Windsor
11:20-11:40		ThA17.5
<i>Central Suboptimal H_{∞} Filter Design for Nonlinear Polynomial Systems with Multiplicative Noise</i> , pp. 3168-3173.		
Basin, Michael V.		Autonomous Univ. of Nuevo Leon
Shi, Peng		Univ. of Glamorgan
Soto Perez, Pedro Marcelo		Autonomous Univ. of Nuevo Leon
11:40-12:00		ThA17.6
<i>Gain-Scheduled Output-Feedback Controllers Using Inexactly Measured Scheduling Parameters</i> , pp. 3174-3180.		

ThA18		Room 304
Cooperative Control of Networked Nonlinear Dynamical Systems (Invited Session)		
Chair: Ren, Wei		Utah State Univ.
Co-Chair: Chung, Soon-Jo		Univ. of Illinois at Urbana-Champaign
Organizer: Ren, Wei		Utah State Univ.
Organizer: Chung, Soon-Jo		Univ. of Illinois at Urbana-Champaign
Organizer: Dong, Wenjie		The Univ. of Texas - Pan American
10:00-10:20		ThA18.1
<i>On Synchronization of Coupled Hopf-Kuramoto Oscillators with Phase Delays (I)</i> , pp. 3181-3187.		
Chung, Soon-Jo		Univ. of Illinois at Urbana-Champaign
Slotine, Jean-Jacques E.		Massachusetts Inst. of Tech.
10:20-10:40		ThA18.2
<i>Diagonal Stability of Stochastic Systems Subject to Nonlinear Disturbances and Diagonal H2 Norms (I)</i> , pp. 3188-3193.		
Langbort, Cedric		Univ. of Illinois, Urbana-Champaign
Ugrinovskii, Valery		Univ. of New South Wales
10:40-11:00		ThA18.3
<i>Synchronization of Networked Robotic Systems on Strongly Connected Graphs (I)</i> , pp. 3194-3199.		
Liu, Yen-Chen		Univ. of Maryland, Coll. Park
Chopra, Nikhil		Univ. of Maryland, Coll. Park
11:00-11:20		ThA18.4
<i>Cooperative Control of Networked Nonlinear Systems (I)</i> , pp. 3200-3207.		
Qu, Zhihua		Univ. of Central Florida
11:20-11:40		ThA18.5
<i>Distributed Coordinated Tracking for Multiple Euler-Lagrange Systems (I)</i> , pp. 3208-3213.		
Mei, Jie		Utah State Univ.
Ren, Wei		Utah State Univ.
Ma, Guangfu		Harbin Inst. of Tech.
11:40-12:00		ThA18.6
<i>Robust Consensus Tracking of a Class of Second-Order Multi-Agent Dynamic Systems</i> , pp. 3214-3220.		
Hu, Guoqiang		Kansas State Univ.
ThA19		Room 305
Recent Advances in Event-Based Control (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.
10:00-10:20		ThA19.1
<i>Event-Triggered Output Feedback Control of Finite Horizon Discrete-Time Multi-Dimensional Linear Processes (I)</i> , pp. 3221-3226.		
Li, Lichun		U. of Notre Dame
Lemmon, Michael		Univ. of Notre Dame
10:20-10:40		ThA19.2
<i>Structural Characterization of Optimal Event-Based Controllers for Linear Stochastic Systems (I)</i> , pp. 3227-3233.		
Molin, Adam		Tech. Univ. München
Hirche, Sandra		Tech. Univ. München
10:40-11:00		ThA19.3
<i>On the Minimum Attention and Anytime Attention Problems for Nonlinear Systems (I)</i> , pp. 3234-3239.		
Anta, Adolfo		Univ. of California at Los Angeles
Tabuada, Paulo		Univ. of California at Los Angeles
11:00-11:20		ThA19.4
<i>A Simple Model for the Interference between Event-Based Control Loops Using a Shared Medium (I)</i> , pp. 3240-3245.		
Henningsson, Toivo		Lund Univ.
Cervin, Anton		Lund Univ.
11:20-11:40		ThA19.5
<i>Output-Based Event-Triggered Control with Guaranteed L_∞-Gain and Improved Event-Triggering (I)</i> , pp. 3246-3251.		
Donkers, Tijs		Eindhoven Univ. of Tech.
Heemels, Maurice		Eindhoven Univ. of Tech.
11:40-12:00		ThA19.6
<i>Limitations of Liveness in Concurrent Software Systems</i> , pp. 3252-3257.		
lordache, Marian		LeTourneau Univ.
Antsaklis, Panos J.		Univ. of Notre Dame

ThA20		Room 306
Advances in Lyapunov Methods: Stability, Stabilization, Constraints (Invited Session)		
Chair: Lazar, Mircea		Eindhoven Univ. of Tech.
Co-Chair: Rakovic, Sasa V.		Imperial Coll. London
Organizer: Lazar, Mircea		Eindhoven Univ. of Tech.
Organizer: Rakovic, Sasa V.		Imperial Coll. London

10:00-10:20		ThA20.1
<i>Vertex/plane Characterization of the Dwell--Time Property for Switching Linear Systems (I)</i> , pp. 3258-3263.		
Blanchini, Franco	Univ. degli Studi di Udine	
Colaneri, Patrizio	Pol. di Milano	
10:20-10:40		ThA20.2
<i>On Parameterized Lyapunov and Control Lyapunov Functions for Discrete-Time Systems (I)</i> , pp. 3264-3270.		
Lazar, Mircea	Eindhoven Univ. of Tech.	
Gielen, Rob	Eindhoven Univ. of Tech.	
10:40-11:00		ThA20.3
<i>Dynamic Solution of the HJB Equation and the Optimal Control of Nonlinear Systems (I)</i> , pp. 3271-3276.		
Sassano, Mario	Imperial Coll. London	
Astolfi, Alessandro	Imperial Coll. & Univ. of Rome	
11:00-11:20		ThA20.4
<i>A Relaxation of Lyapunov Conditions and Controller Synthesis for Discrete-Time Periodic Systems (I)</i> , pp. 3277-3282.		
Bohm, Christoph	Univ. of Stuttgart	
Lazar, Mircea	Eindhoven Univ. of Tech.	
Allgower, Frank	Univ. of Stuttgart	
11:20-11:40		ThA20.5
<i>Practical Set Invariance for Decentralized Discrete Time Systems (I)</i> , pp. 3283-3288.		
Rakovic, Sasa V.	Imperial Coll. London	
Findeisen, Rolf	OVG Univ. Magdeburg	
Kern, Benjamin	Otto-von-Guericke Univ. Magdeburg	
11:40-12:00		ThA20.6
<i>Stability for a Class of Homogeneous Hybrid Systems by Annular Lyapunov Analysis (I)</i> , pp. 3289-3294.		
Forni, Fulvio	Univ. di Roma Tor Vergata	
Teel, Andrew R.	Univ. of California at Santa Barbara	

ThA21

Room 307

Process Control (Regular Session)

Chair: Maggio, Martina	Pol. di Milano
Co-Chair: Leva, Alberto	Pol. di Milano
10:00-10:20	ThA21.1
<i>Reachability Analysis and Control of Crystal Size Distribution in Batch Crystallization Processes</i> , pp. 3295-3300.	
Zhang, Kun	Univ. Claude Bernard Lyon 1
Nadri, Madiha	Univ. Claude Bernard Lyon 1
Xu, Chengzhong	Univ. Claude Bernard - Lyon1
10:20-10:40	ThA21.2
<i>On the Hamiltonian Formulation of the CSTR</i> , pp. 3301-3306.	
Ramirez Estay, Hector	Univ. of Concepcion
Maschke, Bernhard	Univ. Claude Bernard of Lyon
Sbarbaro, Daniel G.	Univ. de Concepcion
10:40-11:00	ThA21.3
<i>Selection of the Number of Principal Components Based on the Fault Reconstruction Approach Applied to a New Combined Index</i> , pp. 3307-3312.	
Mhassri, Baligh	Univ. Paul Cézanne
El Adel, El Mostafa	Univ. Aix Marseille III
Ouladsine, Mustapha	Univ. d'aix marseille III
Ananou, Bouchra	LSIS
11:00-11:20	ThA21.4
<i>Hybrid Intelligent Optimal Control of Fused Magnesium Furnaces</i> , pp. 3313-3318.	
Wu, Zhiwei	Northeastern Univ.
Chai, Tianyou	Northeastern Univ.
Fu, Jun	Northeastern Univ.
Sun, Jing	Univ. of Michigan
11:20-11:40	ThA21.5
<i>On the Use of Models with Delay in PI(D) Autotuning</i> , pp. 3319-3324.	
Leva, Alberto	Pol. di Milano
Maggio, Martina	Pol. di Milano
11:40-12:00	ThA21.6
<i>Hybrid Intelligent Control for Closed-Circuit Grinding Process</i> , pp. 3325-3330.	
Zhao, Dayong	Key Lab. of Process Industry Automation, Ministry of Education
Chai, Tianyou	Northeastern Univ.
Fu, Jun	Northeastern Univ.
Wang, Hong	The Univ. of Manchester

ThA22

Room 308

LMI's (Regular Session)

Chair: Ahmadi, Amir Ali	MIT
Co-Chair: Seiler, Peter	Univ. of Minnesota
10:00-10:20	ThA22.1

<i>Relaxing LMI Domination Matricially</i> , pp. 3331-3336.	Univ. of California at San Diego Univ. of Ljubljana Univ. of Florida
Helton, J. William Klep, Igor Mccullough, Scott A.	
10:20-10:40	ThA22.2
<i>Quasiconvex Sum-Of-Squares Programming</i> , pp. 3337-3342.	Univ. of Minnesota Univ. of Minnesota
Seiler, Peter Balas, Gary J.	
10:40-11:00	ThA22.3
<i>On the Equivalence of Algebraic Conditions for Convexity and Quasiconvexity of Polynomials</i> , pp. 3343-3348.	MIT Massachusetts Inst. of Tech.
Ahmadi, Amir Ali Parrilo, Pablo A.	
11:00-11:20	ThA22.4
<i>Output Feedback Control of Nonlinear Quadratic Systems</i> , pp. 3349-3354.	Univ. Magna Graecia di Catanzaro Univ. degli Studi di Napoli Parthenope Univ. degli Studi Magna Graecia Univ. degli Studi Magna Graecia di Catanzaro
Amato, Francesco Ariola, Marco Cosentino, Carlo Merola, Alessio	
11:20-11:40	ThA22.5
<i>Robust Stability and Stabilization of a Class of Non-Linear Stochastic Systems with State and Controller Dependent Noise</i> , pp. 3355-3360.	Tennessee State Univ. Tennessee State Univ. Tennessee State Univ.
Sathananthan, Sivapragasam Knap, Michael Jason Keel, L. H.	
11:40-12:00	ThA22.6
<i>Stabilization of Quantized Linear Systems with Saturations</i> , pp. 3361-3366.	LAAS-CNRS Univ. of Toulouse, LAAS CNRS
Tarbouriech, Sophie Gouaisbaut, Frederic	

ThA23 Grand Salon A

System Identification in Biology and Medicine (Invited Session)

Chair: Khammash, Mustafa H. Co-Chair: Rivera, Daniel E. Organizer: Khammash, Mustafa H. Organizer: Rivera, Daniel E.	Univ. of California at Sta. Barbara Arizona State Univ. Univ. of California at Sta. Barbara Arizona State Univ.
10:00-10:20	ThA23.1
<i>Parameter Identification of Biological Networks Using Extended Kalman Filtering and Chi-Squared Criteria (I)</i> , pp. 3367-3372.	Univ. of California at Santa Barbara Univ. of California at Sta. Barbara
Lillacci, Gabriele Khammash, Mustafa H.	
10:20-10:40	ThA23.2
<i>Remarks on Structural Identification, Modularity, and Retroactivity (I)</i> , pp. 3373-3378.	Rutgers Univ.
Sontag, Eduardo D.	
10:40-11:00	ThA23.3
<i>Bayesian Model Selection for the Yeast GATA-Factor Network: A Comparison of Computational Approaches (I)</i> , pp. 3379-3384.	ETH Zurich ETH Zurich ETH Zurich ETH Zurich
Millias-Argeitis, Andreas Summers, Sean Porreca, Riccardo Lygeros, John	
11:00-11:20	ThA23.4
<i>Modeling Structural Deformations of DNA Molecules Using Identification Techniques (I)</i> , pp. 3385-3390.	Syracuse Univ. Cornell Univ.
Palanthandalam-Madapusi, Harish Goyal, Sachin	
11:20-11:40	ThA23.5
<i>System Identification for Clinical Diagnosis of Hydrocephalus (I)</i> , pp. 3391-3396.	Massachusetts Inst. of Tech. Umea Univ. Hospital Umea Univ. Hospital Umea Univ. Hospital
Manchester, Ian R. Andersson, Kennet Eklund, Anders Malm, Jan	
11:40-12:00	ThA23.6
<i>Adaptive Bolus Chasing Computed Tomography Angiography: Modeling, Identification, Control and Experimental Results (I)</i> , pp. 3397-3402.	Univ. of Iowa Univ. of Iowa
Bai, Er-Wei Cai, Zhijun	

ThA24 Grand Salon B

Developments in Optimal Control I (Invited Session)

Chair: Frankowska, Helene Co-Chair: Ledzewicz, Urszula Organizer: Frankowska, Helene Organizer: Ledzewicz, Urszula Organizer: Schaettler, Heinz M.	Univ. Pierre et Marie Curie (Paris 6) Southern Illinois Univ. at Edwardsville Univ. Pierre et Marie Curie (Paris 6) Southern Illinois Univ. at Edwardsville Washington Univ.
10:00-10:20	ThA24.1

<i>Lipschitz Selections of Convexifications of Pseudo-Lipschitz Multifunctions and the Maximum Principle for Differential Inclusions (I)</i> , pp. 3403-3408.	Rutgers Univ.
Sussmann, Hector J.	ThA24.2
10:20-10:40	
<i>On the Solution Map of Control Systems with Multiple State Constraints (I)</i> , pp. 3409-3414.	Univ. Pierre et Marie Curie (Paris 6)
Frankowska, Helene	Imperial Coll. London
Bettiol, Piemicola	ThA24.3
10:40-11:00	
<i>Analysis of Optimal Control Models for the Human Locomotion (I)</i> , pp. 3415-3420.	CNRS, Lab. des Signaux et Systèmes, Supélec
Mason, Paolo	L2S Supelec
Chittaro, Francesca	Ec. Nat. Sup. des Tech. Avancees
Jean, Frederic	Univ. Paris-Sud, CNRS, Supelec
Chitour, Yacine	ThA24.4
11:00-11:20	
<i>Existence of Feasible Approximating Trajectories Satisfying Multiple State Constraints (I)</i> , pp. 3421-3426.	Imperial Coll. London
Bettiol, Piemicola	Imperial Coll.
Vinter, Richard B.	ThA24.5
11:20-11:40	
<i>Receding Horizon Optimal Control for the Wave Equation (I)</i> , pp. 3427-3432.	Univ. of Bayreuth
Altmueller, Nils	Univ. of Bayreuth
Gruene, Lars	Univ. of Bayreuth
Worthmann, Karl	ThA24.6
11:40-12:00	
<i>Predictive Control for Polynomial Systems Subject to Constraints Using Sum of Squares</i> , pp. 3433-3438.	Univ. of Stuttgart
Maier, Christoph	Univ. of Stuttgart
Bohm, Christoph	Univ. of Stuttgart
Deroo, Frederik	Univ. of Stuttgart
Allgower, Frank	Univ. of Stuttgart
ThSP1	Grand Ballroom East
Why Should I Care about Stochastic Hybrid Systems? (Semiplenary Session)	
Chair: Mestha, Lalit K.	Xerox Corp.
Co-Chair: Zhang, Fumin	Georgia Inst. of Tech.
13:30-14:30	ThSP1.1
<i>Why Should I Care about Stochastic Hybrid Systems?*</i>	
Hespanha, Joao P.	Univ. of California, Santa Barbara
ThSP2	Grand Ballroom West
Switched Systems with Positivity Constraints: Theory, Applications and Open Problems (Semiplenary Session)	
Chair: Egerstedt, Magnus	Georgia Inst. of Tech.
Co-Chair: Rundell, Ann E.	Purdue Univ.
13:30-14:30	ThSP2.1
<i>Switched Systems with Positivity Constraints: Theory, Applications and Open Problems*</i>	
Valcher, Maria Elena	Univ. di Padova
ThIB01	Grand Salon East
Modeling I (Interactive Session)	
Chair: Dabney, James	Univ. of Houston - Clear Lake
Co-Chair: Jayaraman, Ganga	Woodward Inc.
15:00-16:15	ThIB01.1
<i>An Optimal State Estimator for a Fuel Valve Actuator</i> , pp. 3439-3444.	
Jayaraman, Ganga	Woodward Inc.
15:00-16:15	ThIB01.2
<i>Parameter Estimation of an Electronic Load Sensing Pump Using the Recursive Least Squares Algorithm</i> , pp. 3445-3450.	
Jayaraman, Ganga	Woodward Inc.
15:00-16:15	ThIB01.3
<i>A Singular Perturbation Analysis and Control of a New Nanomanipulator</i> , pp. 3451-3456.	
Landolsi, Fakhreddine	Rice Univ.
Ghorbel, Fathi H.	Rice Univ.
Dabney, James	Univ. of Houston - Clear Lake
15:00-16:15	ThIB01.4
<i>Reduction of the Computational Burden of POD Models with Polynomial Nonlinearities</i> , pp. 3457-3462.	
Agudelo, Oscar Mauricio	Katholieke Univ. Leuven
Espinosa, Jairo	Univ. Nacional de Colombia
De Moor, Bart L.R.	Katholieke Univ. Leuven
15:00-16:15	ThIB01.5
<i>Discrete Dynamic Preisach Model for Robust Inverse Control of Hysteresis Systems</i> , pp. 3463-3468.	
Ruderman, Michael	TU-Dortmund
Bertram, Torsten	TU Dortmund
15:00-16:15	ThIB01.6

<i>'Soft-Sensor' for Real-Time Monitoring of Melt Viscosity in Polymer Extrusion Process</i> , pp. 3469-3474.	
Liu, Xueqin	Queen's Univ. Belfast
Li, Kang	Queen's Univ. Belfast
McAfee, Marion	Inst. of Tech. Sligo
Deng, Jing	Queen's Univ. Belfast
15:00-16:15	ThIB01.7
<i>Modeling and Control of Nonlinear Systems Using Novel Fuzzy Wavelet Networks: Part I, Modeling</i> , pp. 3475-3480.	
Ebadat, Afrooz	shiraz Univ.
Noroozi, Navid	Shiraz Univ.
Safavi, Ali Akbar	Shiraz Univ.
Mousavi, Hossein	shiraz Univ.
15:00-16:15	ThIB01.8
<i>A State-Based Framework for Supervisory Control Synthesis and Verification</i> , pp. 3481-3486.	
Markovski, Jasen	Eindhoven Univ. of Tech.
Van Beek, D.A. (Bert)	Eindhoven Univ. of Tech.
Theunissen, Rolf J. M.	Eindhoven Univ. of Tech.
Jacobs, Koen	Eindhoven Univ. of Tech.
Rooda, J.E.	Eindhoven Univ. of Tech.
15:00-16:15	ThIB01.9
<i>A Lumped Transfer Function Model for High Pressure Gas Pipelines</i> , pp. 3487-3492.	
Lopes dos Santos, P.	Univ. do Porto
Azevedo Perdicoulis, T-P	ISR-Coimbra & UTAD
Ramos, Jose A.	Nova Southeastern Univ.
Jank, Gerhard	RWTH Aachen
Martins de Carvalho, J.L.	Faculdade de Engenharia da Univ. do Porto
Milhinhos, João	REN-Gasodutos
15:00-16:15	ThIB01.10
<i>Off-Line Data Assimilation to Provide the Best Estimate of Tropospheric Ozone Concentrations by Means of EnKF</i> , pp. 3493-3498.	
Candiani, Gabriele	Univ. di Brescia
Carnevale, Claudio	Brescia Univ.
Finzi, Giovanna	Univ. degli Studi di Brescia
Pisoni, Enrico	Univ. of Brescia
Volta, Marialuisa	Univ. degli Studi di Brescia
15:00-16:15	ThIB01.11
<i>Computation of Convergence Radius and Error Bounds of Volterra Series for Multiple Input Systems with an Analytic Nonlinearity in State</i> , pp. 3499-3504.	
Helie, Thomas	CNRS UMR 9912, Ircam - Centre Georges Pompidou
Laroche, Beatrice	Univ. Paris Sud & Supelec
15:00-16:15	ThIB01.12
<i>Feed Forward Initialization of Hysteretic Systems</i> , pp. 3505-3510.	
van Bree, Patrick	Eindhoven Univ. of Tech.
van Lierop, C.M.M.	Eindhoven Univ. of Tech.
van den Bosch, P. P. J.	Eindhoven Univ. of Tech.
15:00-16:15	ThIB01.13
<i>Mechanical Memory Elements: Modeling of Systems with Position-Dependent Mass Revisited</i> , pp. 3511-3516.	
Jeltsema, Dimitri	Delft Univ. of Tech.
D'ria-Cerezo, Arnau	Tech. Univ. of Catalonia (UPC)
15:00-16:15	ThIB01.14
<i>Nonlinear Modeling of Electro-Pneumatic Actuator for Variable Nozzle Turbocharger Control</i> , pp. 3517-3522.	
Mehmood, Adeel	Univ. deTechnologie deBelfort-Montbéliard,Belfort,France.
Laghrouche, Salah	UTBM
El Bagdouri, Mohammed	Univ. de Tech. de Belfort Montbéliard
15:00-16:15	ThIB01.15
<i>On the Modelling Complexity and Utility of an EMS System</i> , pp. 3523-3528.	
Zhang, Xiao	National Univ. of Defense Tech.
Tan, Ying	The Univ. of Melbourne
Li, Yungang	National Univ. of Defense Tech.
Mareels, Iven	The Univ. of Melbourne

ThIB02	Grand Salon East
Robotics IV (Interactive Session)	
Chair: Sira-Ramirez, Hebertt	CINVESTAV
Co-Chair: Nijmeijer, Hendrik	Eindhoven Univ. of Tech.
15:00-16:15	ThIB02.1
<i>Semiglobally Strictly Passive Two-Port Network Representation of Rigid Link Manipulator under PID Trajectory-Tracking Control</i> , pp. 3529-3535.	
Kikuuwe, Ryo	Kyushu Univ.
15:00-16:15	ThIB02.2
<i>Flight Control of a Small Helicopter in Unknown Wind Conditions</i> , pp. 3536-3541.	
Arain, Bilal Ahmed	CSIRO
Kendoul, Farid	CSIRO

15:00-16:15		ThIB02.3
	<i>Defining Performance Tradeoffs for Multi-Degree-Of-Freedom Bilateral Teleoperators with LQG Control</i> , pp. 3542-3547.	
	Griffiths, Paul	Johns Hopkins Univ.
	Okamura, Allison	Johns Hopkins Univ.
15:00-16:15		ThIB02.4
	<i>A Novel Linear PID Control for an Upper Limb Exoskeleton</i> , pp. 3548-3553.	
	Yu, Wen	CINVESTAV-IPN
	Rosen, Jacob	Univ. of California Santa Cruz
15:00-16:15		ThIB02.5
	<i>Finite Time Stabilization of a Perturbed Double Integrator - Part II: Applications to Bipedal Locomotion</i> , pp. 3554-3559.	
	Aoustin, Yannick	CNRS, Univ. of nantes
	Chevallereau, Christine	Ec. Centrale Nantes
	Orlov, Yury	CICESE
15:00-16:15		ThIB02.6
	<i>Graph-Theoretic Approach for Connectivity Maintenance in Mobile Networks in the Presence of a Jammer</i> , pp. 3560-3565.	
	Bhattacharya, Sourabh	Univ. of Illinois, Urbana-Champaign
	Basar, Tamer	Univ. of Illinois, Urbana-Champaign
15:00-16:15		ThIB02.7
	<i>Hybrid Control for Navigation of Shape-Accelerated Underactuated Balancing Systems</i> , pp. 3566-3571.	
	Nagarajan, Umashankar	Carnegie Mellon Univ.
	Kantor, George	Carnegie Mellon Univ.
	Hollis, Ralph	Carnegie Mellon Univ.
15:00-16:15		ThIB02.8
	<i>Bayesian Online Changepoint Detection to Improve Transparency in Human-Machine Interaction Systems</i> , pp. 3572-3577.	
	Lau, Hon Fai	Kanazawa Univ.
	Yamamoto, Shigeru	Kanazawa Univ.
15:00-16:15		ThIB02.9
	<i>Contact Based Robot Control through Tactile Maps</i> , pp. 3578-3583.	
	Cannata, Giorgio	Univ. of Genova
	Denei, Simone	Univ. of Genova
	Mastrogiovanni, Fulvio	Univ. of Genova
15:00-16:15		ThIB02.10
	<i>Tracking Control of Flexible-Link Manipulators Based on Environmental Force Disturbance Observer</i> , pp. 3584-3589.	
	Atashzar, Seyed Farokh	Amirkabir Univ. of Tech.
	Talebi, H.A.	Amirkabir Univ.
	Towhidkhah, Farzaad	Amirkabir Univ.
	Shahbazi, Mahya	Amirkabir Univ. of Tech.
15:00-16:15		ThIB02.11
	<i>Feedback Linearization for Stabilization of a Class of Mobile, Multibody Systems</i> , pp. 3590-3595.	
	Conrado de Souza, Eric	Centro Univ. FEI
	Maruyama, Newton	Univ. of Sao Paulo
15:00-16:15		ThIB02.12
	<i>Dynamics and Control of 2D SpiderCrane: A Controlled Lagrangian Approach</i> , pp. 3596-3601.	
	Kamath, Atul Krishna	Univ. of Exeter
	Singh, Navdeep	Veermata Jijabai Tech. Inst. (VJTI)
	Kazi, Faruk	Indian Inst. of Tech. Bombay
	Pasumarthy, Ramkrishna	BITS Pilani, Hyderabad Campus
15:00-16:15		ThIB02.13
	<i>Determination of Control Parameters for a Radio-Frequency Based Crane Controller</i> , pp. 3602-3607.	
	Cardona, Diana	Vanderbilt Univ.
	Peng, Kelvin Chen Chih	Georgia Inst. of Tech.
	Singhose, William	Georgia Inst. of Tech.
	Frakes, Dave	4-D Imaging, Inc.
15:00-16:15		ThIB02.14
	<i>Stability Analysis of Sampled-Data Teleoperation Systems</i> , pp. 3608-3613.	
	Jazayeri, Ali	Univ. of Alberta
	Tavakoli, Mahdi	Univ. of Alberta
15:00-16:15		ThIB02.15
	<i>Haptic Tele-Driving of a Wheeled Mobile Robot Over the Internet: A PSPM Approach</i> , pp. 3614-3619.	
	Zuo, Zhiyuan	Univ. of Tennessee
	Lee, Dongjun	Univ. of Tennessee at Knoxville
15:00-16:15		ThIB02.16
	<i>Passive Configuration Decomposition and Practical Stabilization of Nonholonomic Mechanical Systems with Symmetry</i> , pp. 3620-3625.	
	Lee, Dongjun	Univ. of Tennessee at Knoxville

ThIB03		Grand Salon East
Adaptive Control V (Interactive Session)		
Chair: Balas, Mark		Univ. of Wyoming
Co-Chair: Manzie, Chris		The Univ. of Melbourne
15:00-16:15		ThIB03.1

- An Adaptive Feedforward Compensation Algorithm for Active Vibration Control*, pp. 3626-3631.
Landau, Ioan Dore
Alma, Marouane
GIPSA-Lab. Control Dept.
Gipsa-Lab.
ThIB03.2
- 15:00-16:15
Robust Adaptive Dynamic Surface Control of a Hypersonic Flight Vehicle, pp. 3632-3637.
Butt, Waseem Aslam
Lin, Yan
Amezquita S., Kendrick
Beijing Univ. of Aeronautics and Astronautics
Beijing Univ. of Aeronautics and Astronautics
Beijing Univ. of Aeronautics and Astronautics
ThIB03.3
- 15:00-16:15
Observer Based Adaptive Output Feedback Tracking Control of Robot Manipulators, pp. 3638-3643.
Zergeroglu, Erkan
Tatlcioglu, Enver
Gebze Inst. of Tech.
Izmir Inst. of Tech.
ThIB03.4
- 15:00-16:15
Adaptive Nonlinear Model Predictive Control with Suboptimality and Stability Guarantees, pp. 3644-3649.
Giselsson, Pontus
Lund Univ.
ThIB03.5
- 15:00-16:15
Adaptive Control for Haptics with Time-Delay, pp. 3650-3655.
Richert, Dean
Macnab, Chris
Pieper, Jeff K.
Univ. of Calgary
Univ. of Calgary
Univ. of Calgary
ThIB03.6
- 15:00-16:15
Adaptive Autonomous Soaring of Multiple UAVs Using Simultaneous Perturbation Stochastic Approximation, pp. 3656-3661.
Antal, Cathrine
Granichin, Oleg N.
Levi, Sergey
Saint Petersburg State Univ.
St.Petersburg State Univ.
Saint Petersburg State Univ.
ThIB03.7
- 15:00-16:15
Inverse Hysteresis Control for Shape Memory Alloy Micro-Actuators Based Flap Positioning System, pp. 3662-3667.
Feng, Ying
Rabbath, Camille Alain
Hong, H.
Su, Chun-Yi
Lin, Wei
Concordia Univ.
Defence R&D Canada
Concordia Univ.
Concordia Univ.
Case Western Res. Univ.
ThIB03.8
- 15:00-16:15
Combining Extremum Seeking Control and Tracking Control for High-Performance CVT Operation, pp. 3668-3673.
van der Meulen, Stan
de Jager, Bram
Veldpaus, Frans
Steinbuch, Maarten
Eindhoven Univ. of Tech.
Tech. Univ. Eindhoven
Eindhoven Univ. of Tech.
Eindhoven Univ. of Tech.
ThIB03.9
- 15:00-16:15
Concurrent Learning for Convergence in Adaptive Control without Persistency of Excitation, pp. 3674-3679.
Chowdhary, Girish
Johnson, Eric N.
Georgia Inst. of Tech.
Georgia Inst. of Tech.
ThIB03.10
- 15:00-16:15
Adaptive Backstepping Controller for Uncertain Systems with Unknown Input Time-Delay. Application to SI Engines, pp. 3680-3687.
Bresch-Pietri, Delphine
Chauvin, Jonathan
Petit, Nicolas
MINES ParisTech
IFP
MINES ParisTech
ThIB03.11
- 15:00-16:15
A Robust Adaptive Servocompensator for Nanopositioning Control, pp. 3688-3693.
Esbrook, Alex
Tan, Xiaobo
Khalil, Hassan K.
Michigan State Univ.
Michigan State Univ.
Michigan State Univ.
ThIB03.12
- 15:00-16:15
Asymptotic Attitude Tracking of the Rotorcraft-Based UAV Via RISE Feedback and NN Feedforward, pp. 3694-3699.
Shin, Jongho
Kim, H. Jin
Kim, Youdan
Dixon, Warren E.
Seoul National Univ.
Seoul National Univ.
Seoul National Univ.
Univ. of Florida
ThIB03.13
- 15:00-16:15
Adaptive Fuzzy Control for Strict-Feedback Nonlinear Time -Delay Systems without Backstepping Scheme, pp. 3700-3705.
Yousef, Hasan A.
Hamdy, Mohamed
Muhammad, Shafiq
Sultan Qaboos Univ.
Menofia Univ.
Sultan Qaboos Univ.
ThIB03.14
- 15:00-16:15
Retrospective Cost Adaptive Control of a Planar Multilink Arm with Nonminimum-Phase Zeros, pp. 3706-3711.
Morozov, Alexey
Hoagg, Jesse B.
Bernstein, Dennis S.
Univ. of Michigan
Univ. of Kentucky
Univ. of Michigan
ThIB03.15
- 15:00-16:15
Laguerre Based Adaptive Control of Piezoelectric Actuator for Nanopositioning, pp. 3712-3717.

Wang, Yigang
Chu, Kevin
Chang, Herrick
Tsao, Tsu-Chin

Eaton Corp.
UCLA
Univ. of California, Los Angeles
Univ. of California, Los Angeles

ThIB04

Grand Salon East

Emerging Control Applications (Interactive Session)

- Chair: Bushnell, Linda G. Univ. of Washington
Co-Chair: Wisniewski, Rafal Aalborg Univ.
- 15:00-16:15 ThIB04.1
Evaluation of Control System Performance Using Multiple Criteria Decision Making Techniques, pp. 3718-3723.
Sun, Xiaoqian German Aerospace Center (DLR)
Li, Yongchang Georgia Inst. of Tech.
- 15:00-16:15 ThIB04.2
Sampled-Data Consensus Control for Nonlinear Fully-Actuated Ships, pp. 3724-3729.
Katayama, Hitoshi Shizuoka Univ.
- 15:00-16:15 ThIB04.3
Time Domain Validation of Ultracapacitor Fractional Order Model, pp. 3730-3735.
Dzielinski, Andrzej Warsaw Univ. of Tech.
Sarwas, Grzegorz Warsaw Univ. of Tech.
Sierociuk, Dominik Warsaw Univ. of Tech. (ISEP)
- 15:00-16:15 ThIB04.4
Controlling Software Applications within the Heartbeats Framework, pp. 3736-3741.
Maggio, Martina Pol. di Milano
Hoffmann, Henry MIT, Cambridge (MA)
Santambrogio, Marco Domenico Pol. di Milano, Italy - MIT, Cambridge (MA)
Agarwal, Anant Massachusetts Inst. of Tech.
Leva, Alberto Pol. di Milano
- 15:00-16:15 ThIB04.5
Closed-Loop Control for Cardiopulmonary Management and Intensive Care Unit Sedation Using Expert Systems, pp. 3742-3747.
Gholami, Behnood Georgia Inst. of Tech.
Bailey, James M. Northeast Georgia Medical Center
Haddad, Wassim M. Georgia Inst. of Tech.
Tannenbaum, Allen Georgia Tech.
- 15:00-16:15 ThIB04.6
A Disturbance Rejection Based Control Approach for Hysteretic Systems, pp. 3748-3753.
Zheng, Qing Gannon Univ.
Goforth, Frank Georgia Southern Univ.
- 15:00-16:15 ThIB04.7
Optimal Drug Dosing Control for Intensive Care Unit Sedation Using a Hybrid Deterministic-Stochastic Pharmacokinetic and Pharmacodynamic Model, pp. 3754-3759.
Gholami, Behnood Georgia Inst. of Tech.
Haddad, Wassim M. Georgia Inst. of Tech.
Bailey, James M. Northeast Georgia Medical Center
Tannenbaum, Allen Georgia Tech.
- 15:00-16:15 ThIB04.8
Abstraction of Continuous Dynamical Systems Utilizing Lyapunov Functions, pp. 3760-3765.
Sloth, Christoffer Aalborg Univ.
Wisniewski, Rafal Aalborg Univ.
- 15:00-16:15 ThIB04.9
Global Stabilization of Quantum Spin Systems Via Discrete Time Feedback Control, pp. 3766-3771.
Matsuna, Daisuke The Univ. of Tokyo
Tsumura, Koji The Univ. of Tokyo
- 15:00-16:15 ThIB04.10
Non-Smooth Lyapunov Function-Based Global Stabilization for 2-Dimensional Quantum Filters, pp. 3772-3777.
Ge, Shuzhi Sam National Univ. of Singapore
Vu, Thanh-Long National Univ. of Singapore
He, Wei National Univ. of Singapore
Hang, Chang Chieh National Univ. of Singapore
- 15:00-16:15 ThIB04.11
A Min-Max Framework for CPU Resource Provisioning in Virtualized Servers Using H-Infinity Filters, pp. 3778-3783.
Charalambous, Themistoklis Univ. of Cyprus
Kalyvianaki, Evangelia Imperial Coll. London
- 15:00-16:15 ThIB04.12
Modeling and LQR Control of Salinity in the Mekong Delta, pp. 3784-3789.
Nguyen, Nghi Univ. of Washington
Bushnell, Linda G. Univ. of Washington
- 15:00-16:15 ThIB04.13
Dynamic Power Allocation in Server Farms: A Real Time Optimization Approach, pp. 3790-3795.
Aghajani, Mohammadreza Carnegie Mellon Univ.

Parolini, Luca	Carnegie Mellon Univ.
Sinopoli, Bruno	Carnegie Mellon Univ.
15:00-16:15	ThIB04.14
<i>The Role of Social Feedback in Steady-State Performance of Human Decision Making for Two-Alternative Choice Tasks</i> , pp. 3796-3801.	
Stewart, Andrew Reed	Princeton Univ.
Leonard, Naomi Ehrich	Princeton Univ.
15:00-16:15	ThIB04.15
<i>Modeling and Evaluation of Decision-Making Dynamics in Sequential Two-Alternative Forced Choice Tasks</i> , pp. 3802-3807.	
Woodruff, Caleb	Univ. of Washington
Vu, Linh	Univ. of Washington, Seattle
Morgansen, Kristi A.	Univ. of Washington
Tomlin, Damon	Princeton Univ.

ThIB05 Grand Salon East
Agents and Autonomous Systems III (Interactive Session)

Chair: Nersesov, Sergey G.	Villanova Univ.
Co-Chair: Bestaoui, Yasmina	Univ. D'evry Val D'essonne
15:00-16:15	ThIB05.1
<i>Beamlet-Like Data Processing for Accelerated Path-Planning Using Multiscale Information of the Environment</i> , pp. 3808-3813.	
Lu, Yibiao	Georgia Inst. of Tech.
Huo, Xiaoming	Georgia Inst. of Tech.
Tsiotras, Panagiotis	Georgia Inst. of Tech.
15:00-16:15	ThIB05.2
<i>Optimal Design of Cyclic Pursuit Weights in Hierarchical Multi-Agent Systems</i> , pp. 3814-3819.	
Kogure, Tomoyuki	Tokyo Inst. of Tech.
Ishii, Hideaki	Tokyo Inst. of Tech.
15:00-16:15	ThIB05.3
<i>Multi-Leader Set Coordination of Multi-Agent Systems with Random Switching Topologies</i> , pp. 3820-3825.	
Lou, Youcheng	Acad. of Mathematics and Systems Science
Hong, Yiguang	Chinese Acad. of Sciences
15:00-16:15	ThIB05.4
<i>Multi-Robot SLAM Using M-Space Feature Representation</i> , pp. 3826-3831.	
Benedettelli, Daniele	Univ. di Siena
Garulli, Andrea	Univ. di Siena
Giannitrapani, Antonio	Univ. di Siena
15:00-16:15	ThIB05.5
<i>Robust Helicopter Stabilization in the Face of Wind Disturbance</i> , pp. 3832-3837.	
A. Danapalasingam, Kumeresan	Aalborg Univ.
Leth, John	Aalborg Univ.
la Cour-Harbo, Anders	Aalborg Univ.
Bisgaard, Morten	Aalborg Univ.
15:00-16:15	ThIB05.6
<i>Consensus on Asynchronous Communication Networks in Presence of External Input</i> , pp. 3838-3844.	
Pilotto, Concetta	California Inst. of Tech.
Chandy, K. Mani	California Inst. of Tech.
White, Jerome	California Inst. of Tech.
15:00-16:15	ThIB05.7
<i>Distributed Learning in Mobile Sensor Networks Using Cross Validation</i> , pp. 3845-3850.	
Oh, Songhwai	Seoul National Univ.
Choi, Jongeun	Michigan State Univ.
15:00-16:15	ThIB05.8
<i>Explorative Navigation of Mobile Sensor Networks Using Sparse Gaussian Processes</i> , pp. 3851-3856.	
Oh, Songhwai	Seoul National Univ.
Xu, Yunfei	Michigan State Univ.
Choi, Jongeun	Michigan State Univ.
15:00-16:15	ThIB05.9
<i>A Randomized Hybrid System Approach to Coordinated Robotic Sensor Planning</i> , pp. 3857-3864.	
Lu, Wenjie	Duke Univ.
Zhang, Guoxian	Duke Univ.
Ferrari, Silvia	Duke Univ.

ThIB06 Grand Salon East
Optimization IV (Interactive Session)

Chair: Tanner, Herbert	Univ. of Delaware
Co-Chair: Kerrigan, Eric C.	Imperial Coll. London
15:00-16:15	ThIB06.1
<i>A New Measure of Solution Quality for Combinatorial Task Assignment Problems</i> , pp. 3865-3870.	
Jackson, Justin	Univ. of Michigan
Chang, Yu-hsien	Univ. of Michigan
Girard, Anouck	Univ. of Michigan, Ann Arbor

15:00-16:15		ThIB06.2
A "joint+marginal" Algorithm for Polynomial Optimization , pp. 3871-3876.	Lasserre, Jean B. Phan, Thanh Tung	LAAS-CNRS and Inst. of Mathematics, Univ. of Toulouse LAAS-CNRS, Univ. of Toulouse
15:00-16:15		ThIB06.3
Optimal Network Topology Design in Multi-Agent Systems for Efficient Average Consensus , pp. 3877-3883.	Rafiee, Mohammad Bayen, Alexandre M.	Univ. of California, Berkeley Univ. of California at Berkeley
15:00-16:15		ThIB06.4
A Lagrangian-Barrier Function for Adjoint State Constraints Optimization of Oil Reservoirs Water Flooding , pp. 3884-3889.	Suwartadi, Eka Krogstad, Stein Foss, Bjarne A.	NTNU SINTEF ICT Norwegian Univ. of Science & Tech.
15:00-16:15		ThIB06.5
A New Method for Solving a Linear Programming Problem , pp. 3890-3895.	Yamamoto, Yoshihiro	Tottori Univ.
15:00-16:15		ThIB06.6
Plant-Wide Optimization of an Ethanol Plant Using Parametric Hybrid Models , pp. 3896-3901.	Sayyarodsari, Bijan Schweiger, Carl Bartee, James Axelrud, Celso	Rockwell Automation Pavilion Tech. Rockwell Automation Pavilion Tech. Rockwell Automation Pavilion Tech.
15:00-16:15		ThIB06.7
A Systematic Approach to Extremum Seeking Based on Parameter Estimation , pp. 3902-3907.	Nesic, Dragan Mohammadi, Alireza Manzie, Chris	Univ. of Melbourne Univ. of Melbourne The Univ. of Melbourne
15:00-16:15		ThIB06.8
Computational Fluid Dynamics Optimization of Shape of Sprue for Die Casting Considering Product Quality , pp. 3908-3913.	Kanazawa, Ken'ichi Yano, Ken'ichi	Gifu Univ. Gifu Univ.
15:00-16:15		ThIB06.9
Distributed Model Predictive Control Based on Benders' Decomposition Applied to Multisource Multizone Building Temperature Regulation , pp. 3914-3919.	Moro_,an, Petru-Daniel Bourdais, Romain Dumur, Didier Buisson, Jean	SUPELEC SUPELEC Ec. Superieure d'Electricite Supélec
15:00-16:15		ThIB06.10
Auction Algorithm for Nonlinear Resource Allocation Problems , pp. 3920-3925.	Bangla, Ajay Kumar Castanon, David A.	Boston Univ. Boston Univ.
15:00-16:15		ThIB06.11
Topology Optimization in Cellular Neural Networks , pp. 3926-3931.	Bhambhani, Varsha Tanner, Herbert	Univ. of Delaware Univ. of Delaware
15:00-16:15		ThIB06.12
Dynamic Water Resources Planning with Locational Release and Annual Consumption Constraints , pp. 3932-3937.	Zhao, Yanjia Chen, Xi Jia, Qing-Shan Guan, Xiaohong Wang, Hao	Tsinghua Univ. Tsinghua Univ. TNLIST, Tsinghua Univ. Xian Jiaotong Univ. Chinese Inst. of Water Res. and Hydropower Res.
15:00-16:15		ThIB06.13
Rational Behavior Design Using Multi-Selective Generation , pp. 3938-3943.	Menezes, Amor A. Kabamba, Pierre T.	Univ. of Michigan Univ. of Michigan
15:00-16:15		ThIB06.14
Optimization of Preventive Maintenance Scheduling in Semiconductor Manufacturing Models Using a Simulation-Based Approximate Dynamic Programming Approach , pp. 3944-3949.	Ramírez-Hernández, José A. Fernandez, Emmanuel	Univ. of Cincinnati Univ. of Cincinnati
ThIB07		Grand Salon East
Electrical and Power Systems (Interactive Session)		
	Chair: Chakraborty, Aranya Co-Chair: Castillo-Toledo, Bernardino	Texas Tech. Univ. CINVESTAV-GDL, Mexico
15:00-16:15		ThIB07.1
Robust Speed Estimation and Control of PM Synchronous Motors Via Quasi-Sliding Modes , pp. 3950-3955.	Ciabattoni, Lucio	Univ. Pol. delle marche

Corradini, Maria Letizia	Univ. di Camerino
Grisostomi, Massimo	Univ. Pol. delle marche
Ippoliti, Gianluca	Univ. Pol. delle Marche
Longhi, Sauro	Univ. Pol. delle Marche
Orlando, Giuseppe	Univ. Pol. delle Marche
15:00-16:15	ThIB07.2
<i>Voltage/Pitch Control for Maximization and Regulation of Active/Reactive Powers in Wind Turbines with Uncertainties</i> , pp. 3956-3963.	
Guo, Yi	Univ. of Oklahoma
Hosseini, Seyed Hossein	Univ. of Oklahoma
Jiang, John	Univ. of Oklahoma
Tang, Choon Yik	Univ. of Oklahoma
15:00-16:15	ThIB07.3
<i>Output Tracking Control with Enhanced Damping of Internal Dynamics and Its Output Boundedness</i> , pp. 3964-3971.	
Lee, Young Ok	Hanyang Univ.
Han, Youngseong	Hanyang Univ. Hyosung Co.
Chung, Chung Choo	Hanyang Univ.
15:00-16:15	ThIB07.4
<i>A Hierarchical Optimal Control Strategy for Power Management of Hybrid Power Systems in All Electric Ships Applications</i> , pp. 3972-3977.	
Seenumani, Gayathri	The Univ. of Michigan
Sun, Jing	Univ. of Michigan
Peng, Huei	Univ. of Michigan
15:00-16:15	ThIB07.5
<i>A Cyclo-dissipativity Condition for Power Factor Improvement under Nonsinusoidal Source with Significant Impedance</i> , pp. 3978-3983.	
Del Puerto-Flores, Dunstano	Univ. OF GRONINGEN
Ortega, Romeo	LSS-SUPELEC
Scherpen, Jacqueliën M.A.	Univ. of Groningen
15:00-16:15	ThIB07.6
<i>Dynamic Optimal Battery Array Management in High Energy Density Fuel Cell Battery Hybrid Power Source</i> , pp. 3984-3989.	
She, Yun	Pol. Inst. of NYU
She, Xu	North Carolina State Univ.
15:00-16:15	ThIB07.7
<i>Output Feedback Control of PMSM</i> , pp. 3990-3995.	
Loria, Antonio	CNRS
Espinosa-Perez, Gerardo	Univ. Nacional Autonoma de Mexico
15:00-16:15	ThIB07.8
<i>A Majorization-Minimization Approach to Design of Power Transmission Networks</i> , pp. 3996-4003.	
Johnson, Jason	Los Alamos National Lab.
Chertkov, Michael	Los Alamos National Lab.
15:00-16:15	ThIB07.9
<i>Relationship between Power Loss and Network Topology in Power Systems</i> , pp. 4004-4011.	
Lavaei, Javad	California Inst. of Tech.
Low, Steven	California Inst. of Tech.
15:00-16:15	ThIB07.10
<i>Observer-Controller Scheme Using High Order Sliding Mode Techniques for Sensorless Speed Control of Permanent Magnet Synchronous Motor</i> , pp. 4012-4017.	
Ezzat, Marwa	Ec. centrale de Nantes
De Leon, Jesus	Univ. Autonoma de Nuevo Leon
González Fonseca, Nicolás	Univ. Autónoma de Nuevo León
Glumineau, Alain	Ec. Centrale Nantes
15:00-16:15	ThIB07.11
<i>Super-Twisting Sensorless Control of Permanent Magnet Synchronous Motors</i> , pp. 4018-4023.	
Di Gennaro, Stefano	Univ. of L'Aquila
Rivera, Jorge	Univ. de Guadalajara
Castillo-Toledo, Bernardino	CINVESTAV-GDL, Mexico

ThIB08

Grand Salon East

Nonlinear Systems II (Interactive Session)

Chair: Kablar, Natasa A.	Faculty of Computer Science
Co-Chair: Pao, Lucy Y.	Univ. of Colorado at Boulder
15:00-16:15	ThIB08.1
<i>On a Construction of a Non-Linear Control Law for Non-Linear Systems through Carleman Bilinearization</i> , pp. 4024-4029.	
Sánchez, Irving A.	CINVESTAV
Collado, Joaquin	CINVESTAV
15:00-16:15	ThIB08.2
<i>Analysis and Control for the Water Distribution Problem</i> , pp. 4030-4035.	
Ramirez, Eduardo	Univ. de los Andes
Quijano, Nicanor	Univ. de los Andes
15:00-16:15	ThIB08.3
<i>On Stability Analysis of Systems Featuring a Multiplicative Combination of Nonlinear and Linear Time-Invariant Feedback</i> , pp. 4036-4041.	
Kulkarni, Vishwesh V.	Indian Inst. of Tech. Bombay

- Pao, Lucy Y. Univ. of Colorado at Boulder
Safonov, Michael G. Univ. of Southern California
ThIB08.4
- 15:00-16:15
Stabilization of a Coupled PDE-ODE System by Boundary Control, pp. 4042-4047.
Tang, Shuxia Southwest Univ.
Xie, Chengkang Southwest Univ.
ThIB08.5
- 15:00-16:15
Global Stabilization of a Class of Upper-Triangular Systems with Higher-Order Nonlinearities, pp. 4048-4053.
Ding, Shihong Jiangsu Univ.
Qian, Chunjiang Univ. of Texas at San Antonio
Li, Shihua Southeast Univ.
ThIB08.6
- 15:00-16:15
Saturated Control of Time-Varying Formations and Trajectory Tracking for Unicycle Multi-Agent Systems, pp. 4054-4059.
Kostic, Dragan Tech. Univ. Eindhoven
Adinandra, Sisdarmanto Eindhoven Univ. of Tech.
Caarls, Jurjen Tech. Univ. of Eindhoven
Van De Wouw, Nathan Eindhoven Univ. of Tech.
Nijmeijer, Hendrik Eindhoven Univ. of Tech.
ThIB08.7
- 15:00-16:15
Decentralised Output Feedback Control for Nonlinear Interconnected Systems with Time Delay Interconnections and Disturbances, pp. 4060-4065.
Yan, Xinggang Univ. of Kent
Spurgeon, Sarah K. Univ. of Kent
Edwards, Christopher Univ. of Leicester
ThIB08.8
- 15:00-16:15
Constrained Time-Delay Polynomial Systems: A SOS-Based Stabilization Approach to Enlarge the Domain of Attraction, pp. 4066-4071.
Franze', Giuseppe Univ. Degli Studi della Calabria
Casavola, Alessandro Univ. Della Calabria
Famularo, Domenico Univ. degli Studi della Calabria
ThIB08.9
- 15:00-16:15
A Nonlinear Switching Control Method for a Class of Non-Minimum-Phase Nonlinear Systems, pp. 4072-4077.
Zhang, Yajun Northeastern Univ.
Chai, Tianyou Northeastern Univ.
Wang, Hong The Univ. of Manchester
Fu, Jun Northeastern Univ.
ThIB08.10
- 15:00-16:15
Left Invertibility of Output-Quantized Systems: An Application to Cryptography, pp. 4078-4083.
Dubbini, Nevio Univ. of Pisa
Carluccio, Anna Univ. of Pisa
Bicchi, Antonio Univ. di Pisa
ThIB08.11
- 15:00-16:15
Stability Analysis and Design of a Time Delay Estimation Based Control for a Class of Nonlinear Uncertain Systems, pp. 4084-4089.
Jin, Yi Korea Advanced Inst. of Science & Tech. (KAIST)
Chang, Pyung Hun Korea Adv. Inst. of Sci. & Tech.
Park, Yea Seok KAIST, Robot Control Lab.
ThIB08.12
- 15:00-16:15
Dissipativity Theory for Singular Systems. Part II: Discrete-Time Case, pp. 4090-4095.
Kablar, Natasa A. Faculty of Computer Science
ThIB08.13
- 15:00-16:15
Global Finite-Time Stabilization Via Output Feedback for Upper-Triangular Systems with Unknown Output Gain, pp. 4096-4101.
Zhai, Junyong Southeast Univ.
Qian, Chunjiang Univ. of Texas at San Antonio
Frye, Michael Univ. of the Incarnate Word
ThIB08.14
- 15:00-16:15
Stability Radius for Extended Linearization with System Uncertainty, pp. 4102-4107.
Shafai, Bahram Northeastern Univ.
Nazari, Sam Northeastern Univ.
ThIB08.15
- 15:00-16:15
Strongly Absolute Stability of Lur'e-Type Discrete-Time Descriptor Systems, pp. 4108-4113.
Yin, Fei Northeastern Univ.
Yang, Chunyu Northeastern Univ.
Zhai, Ding Northeastern Univ.
Fu, Jun Northeastern Univ.
ThIB08.16
- 15:00-16:15
Approximative Classification of Regions in Parameter Spaces of Nonlinear ODEs Yielding Different Qualitative Behavior, pp. 4114-4119.
Hasenauer, Jan Univ. Stuttgart
Breindl, Christian Univ. of Stuttgart
Waldherr, Steffen Univ. of Stuttgart
Allgower, Frank Univ. of Stuttgart
ThIB08.17

Output-Feedback Stabilization of the Wave Equation with Spatially Varying Propagation Speed, pp. 4120-4125.

Zhao, Shengtao
Xie, Chengkang

Southwest Univ.
Southwest Univ.

ThIB09

Grand Salon East

Stochastic Control IV (Interactive Session)

Chair: Dufour, Francois
Co-Chair: Feinberg, Eugene A.

Univ. Bordeaux 1
SUNY at Stony Brook

15:00-16:15

ThIB09.1

A Numerical Computation of Linear Quadratic Dynamic Games for Stochastic Systems with State and Control-Dependent Noise, pp.

4126-4131.

Mukaidani, Hiroaki
Xu, Hua

Hiroshima Univ.
Univ. of Tsukuba

15:00-16:15

ThIB09.2

L2-Linfy Filter Design for Neutral Stochastic Systems with Interval Delays, pp. 4132-4136.

Li, Lin
Jia, Yingmin
Du, Junping
Yu, Fashan

BeiHang Univ.
Beihang Univ.
Beijing Univ. of Posts and Telecommunications
Henan Pol. Univ.

15:00-16:15

ThIB09.3

Regulation and Efficiency in Markets with Friction, pp. 4137-4144.

Kizilkale, Arman C.
Mannor, Shie

McGill Univ.
Tech.

15:00-16:15

ThIB09.4

Skill Capacity Planning and Transformation Scheduling of IT Workforce under Stochastic Learning and Turnover, pp. 4145-4150.

Chouhan, Manish
Goyal, Munish

Univ. of North Carolina, Chapel Hill
IBM Res.

15:00-16:15

ThIB09.5

Design of Risk-Sensitive Optimal Control for Stochastic Recurrent Neural Networks by Using Hamilton-Jacobi-Bellman Equation, pp.

4151-4156.

Liu, Ziqian
Ansari, Nirwan
Kotinis, Miltiadis
Shih, Stephen C.

State Univ. of New York Maritime Coll.
New Jersey Inst. of Tech.
Old Dominion Univ.
Southern Illinois Univ. Carbondale

15:00-16:15

ThIB09.6

Multi-Step Prediction Optimal Control for a Scalar Linear System with Additive Cauchy Noise, pp. 4157-4164.

Speyer, Jason L.
Idan, Moshe
Fernandez, Javier

Univ. of California at Los Angeles
Tech. - Israel Institute of Tech.
Univ. of California, Los Angeles

15:00-16:15

ThIB09.7

Open-Loop Feedback Control under Multiple Disturbance Function Hypotheses, pp. 4165-4170.

Patek, Stephen D.

Univ. of Virginia

15:00-16:15

ThIB09.8

A Stopping Rule for Linear Stochastic Approximation, pp. 4171-4176.

Wada, Takayuki
Itani, Takamitsu
Fujisaki, Yasumasa

Kobe Univ.
Kobe Univ.
Kobe Univ.

15:00-16:15

ThIB09.9

A Multidimensional Comparison Theorem for Solutions of the Skorokhod Problem in a Wedge with Applications to Control of a Group of Independent Identical Agents, pp. 4177-4179.

Anulova, Svetlana

IPU

ThIB10

Grand Salon East

Hybrid Systems IV (Interactive Session)

Chair: Stursberg, Olaf
Co-Chair: Hui, Qing

Univ. of Kassel
Texas Tech. Univ.

15:00-16:15

ThIB10.1

The Fundamentals of Hybrid Systems Modelers, pp. 4180-4185.

Benveniste, Albert
Caillaud, Benoit
Pouzet, Marc

IRISA-INRIA
IRISA / INRIA Rennes
Ec. normale supérieure

15:00-16:15

ThIB10.2

Control of Low-Rate Denial-Of-Service Attacks on Web Servers and TCP Flows, pp. 4186-4191.

Hui, Qing
Luo, Xiapu
Lee, Wenke

Texas Tech. Univ.
Georgia Inst. of Tech.
Georgia Inst. of Tech.

15:00-16:15

ThIB10.3

Decomposability of Global Tasks for Multi-Agent Systems, pp. 4192-4197.

Karimadini, Mohammad
Lin, Hai

National Univ. of Singapore
National Univ. of Singapore

15:00-16:15		ThIB10.4
<i>Hybrid Control of Spherical Orientation</i> , pp. 4198-4203.		
Mayhew, Christopher G.	Univ. of California, Santa Barbara	
Teel, Andrew R.	Univ. of California at Santa Barbara	
15:00-16:15		ThIB10.5
<i>Modeling and Control of Heterogeneous Non-Holonomic Input-Constrained Multiagent Systems</i> , pp. 4204-4209.		
Oikonomopoulos, Apollon	National Tech. Univ. of Athens	
Loizou, Savvas	Frederick Univ.	
Kyriakopoulos, Kostas J.	National Tech. Univ. of Athens	
15:00-16:15		ThIB10.6
<i>Continuity of the Value Function for Exit Time Optimal Control Problems of Hybrid Systems</i> , pp. 4210-4215.		
Rungger, Matthias	Univ. of Kassel	
Stursberg, Olaf	Univ. of Kassel	
15:00-16:15		ThIB10.7
<i>Improved Complexity Analysis of Branch and Bound for Hybrid MPC</i> , pp. 4216-4222.		
Axehill, Daniel	ETH Zürich	
Morari, Manfred	ETH Zurich	
15:00-16:15		ThIB10.8
<i>An Algorithm for Discrete State Sequence and Trajectory Optimization for Hybrid Systems with Partitioned State Space</i> , pp. 4223-4229.		
Passenberg, Benjamin	Tech. Univ. Muenchen	
Sobotka, Marion	TU Muenchen	
Stursberg, Olaf	Univ. of Kassel	
Buss, Martin	Tech. Univ. Muenchen	
Caines, Peter E.	McGill Univ.	
15:00-16:15		ThIB10.9
<i>A Symbolic Approach to Controlling Piecewise Affine Systems</i> , pp. 4230-4235.		
Tumova, Jana	Masaryk Univ.	
Yordanov, Boyan	Boston Univ.	
Belta, Calin	Boston Univ.	
Cerna, Ivana	Masaryk Univ.	
Barnat, Jiri	Masaryk Univ.	
15:00-16:15		ThIB10.10
<i>Adaptive Reservations for Feedback Control</i> , pp. 4236-4243.		
Fontanelli, Daniele	Univ. of Trento	
Greco, Luca	Univ. of Salerno	
Palopoli, Luigi	Univ. of Trento	
15:00-16:15		ThIB10.11
<i>On Stability and Performance Analysis of Discrete-Time Piecewise Affine Systems</i> , pp. 4244-4249.		
Mirzazad Barijough, Sanam	Pennsylvania State Univ.	
Lee, Ji-Woong	Pennsylvania State Univ.	
15:00-16:15		ThIB10.12
<i>Translating Sequential Function Charts to the Compositional Interchange Format for Hybrid Systems</i> , pp. 4250-4256.		
Sonntag, Christian	Tech. Univ. Dortmund	
Fischer, Stephan	Tech. Univ. Dortmund, Germany	
ThIB11		Grand Salon East
Robust Control IV (Interactive Session)		
Chair: Li, Li	The Univ. of Melbourne	
Co-Chair: Zheng, Wei Xing	Univ. of Western Sydney	
15:00-16:15		ThIB11.1
<i>Robust Control for a Class of Interval Model: Application to the Force Control of Piezoelectric Cantilevers</i> , pp. 4257-4262.		
Khadraoui, Sofiane	Femto-st	
Rakotondrabe, Micky	FEMTO-ST Inst.	
Lutz, Philippe	Femto-st	
15:00-16:15		ThIB11.2
<i>Real-Time Linear Control of the Omnidirectional Mobile Robot</i> , pp. 4263-4268.		
Sira-Ramirez, Hebert	CINVESTAV	
Lopez-Urbe, Carlos	Centro de Investigacion y Estudios Avanzados del IPN	
Velasco-Villa, Martin	CINVESTAV-IPN	
15:00-16:15		ThIB11.3
<i>Robust Multi-Criteria Optimal Fuzzy Control of Discrete-Time Nonlinear Systems</i> , pp. 4269-4274.		
Wang, Xin	Marquette Univ.	
Yaz, Edwin	Marquette Univ.	
15:00-16:15		ThIB11.4
<i>Robust Stabilization of Linear and Nonlinear Fractional-Order Systems with Nonlinear Uncertain Parameters</i> , pp. 4275-4280.		
N'Doye, Ibrahima	CRAN	
Zasadzinski, Michel	CRAN	
Darouach, Mohamed	Univ. Henri Poincare-Nancy	
Radhy, Nour-Eddine	Lab. Physique et Matériaux Microélectronique, Automatique	
15:00-16:15		ThIB11.5

- Delay-Dependent Hinfty Exponential Stabilization of T-S Fuzzy Systems with Interval Time-Varying Delay*, pp. 4281-4286.
 Gassara, Hamdi Univ. of Picardie Jules Verne
 El Hajjaji, Ahmed Univ. de Picardie-Jules Verne
 15:00-16:15 ThIB11.6
- A Note on a Double Convex Combination Matrix Inequality*, pp. 4287-4292.
 Zhou, S. Hangzhou Dianzi Univ.
 Zheng, Wei Xing Univ. of Western Sydney
 15:00-16:15 ThIB11.7
- Adaptive Robust Tracking for Uncertain System*, pp. 4293-4298.
 Qian, Fucai Xi'an Univ. of Tech.
 Gao, Jianjun Chinese Univ. of Hong Kong
 Li, Duan Chinese Univ. of Hong Kong
 15:00-16:15 ThIB11.8
- Model-Based Thermoacoustic Oscillation Control Via H-Infinity Loop-Shaping and Integral Quadratic Constraints*, pp. 4299-4304.
 Yuan, Xiaochuan Univ. of Cambridge
 Glover, Keith Univ. of Cambridge
 15:00-16:15 ThIB11.9
- Robust Intensity Control with Multiple Levels of Model Uncertainty and the Dual Risk-Sensitive Problem*, pp. 4305-4310.
 Lim, Andrew E.B. Univ. of California-Berkeley
 Shanthikumar, J. George Univ. of California
 Watwai, Thaisiri Chulalongkom Univ.
 15:00-16:15 ThIB11.10
- On the Stabilization of a Class of Periodic Positive Discrete Time Systems*, pp. 4311-4316.
 Bougatef, Naima Univ. of Poitiers
 Chaabane, Mohamed IPEIS Safx
 Bachelier, Olivier Univ. of Poitiers
 Mehdi, Driss ESIP-LAII
 Cauet, Sebastien Univ. of Poitiers
 15:00-16:15 ThIB11.11
- Robust Controller Design by Convex Optimization Based on Finite Frequency Samples of Spectral Models*, pp. 4317-4322.
 Galdos, Gorka Ec. Pol. Federale de Lausanne
 Karimi, Alireza EPFL
 Longchamp, Roland Ec. Pol. Federale De Lausanne
 15:00-16:15 ThIB11.12
- Control of Compressor Surge with Active Magnetic Bearings*, pp. 4323-4328.
 Yoon, Se Young (Pablo) Univ. of Virginia
 Lin, Zongli Univ. of Virginia
 Goyne, Chris Univ. of Virginia
 Allaire, Paul Univ. of Virginia
 15:00-16:15 ThIB11.13
- Dynamic Output Stabilizing Design for Discrete-Time Fuzzy Systems with Time-Varying Delay*, pp. 4329-4334.
 Viana, Dimitri Campos CEFET-MG
 Leite, Valter J. S. CEFET/MG - Campus Div.
 Castelan, Eugenio B. Univ. Federal de Santa Catarina
 Miranda, Marcio Fantini Federal Univ. of Minas Gerais
 15:00-16:15 ThIB11.14
- Robust Multiplexed Model Predictive Control*, pp. 4335-4340.
 Siva, Elilini Univ. of Cambridge
 Maciejowski, Jan M. Univ. of Cambridge
 Ling, Keck-Voon Nanyang Tech. Univ.
 15:00-16:15 ThIB11.15
- \mathcal{H}_∞ Controller Design for Switched Nonlinear Systems in Lower Triangular Form under Arbitrary Switchings*, pp. 4341-4346.
 Ma, Ruicheng Northeastern Univ.
 Zhao, Jun The Australian National Univ.
 Dimirovski, Georgi M. Dogus Univ. of Istanbul
 15:00-16:15 ThIB11.16
- Optimism in Games with Non-Probabilistic Uncertainty*, pp. 4347-4352.
 Lee, Jiwoong UC Berkeley
 Walrand, Jean Univ. of California at Berkeley
 15:00-16:15 ThIB11.17
- A Lower Bound for Controlled Lagrangian Particle Tracking Error*, pp. 4353-4358.
 Szwaykowska, Klementyna Georgia Inst. of Tech.
 Zhang, Fumin Georgia Inst. of Tech.

ThIB12

Grand Salon East

Fault Diagnosis III (Interactive Session)

Chair: Li, Xiaobo
 Co-Chair: Samy, Ihab

Univ. of Toronto
 Cranfield Univ.

15:00-16:15

ThIB12.1

Dynamic Observers for Fault Diagnosis of Timed Systems, pp. 4359-4364.

Cassez, Franck	NICTA & CNRS
15:00-16:15	ThIB12.2
Detection and Accommodation of Sensor Faults in UAVs a Comparison of NN and EKF Based Approaches , pp. 4365-4372.	
Samy, Ihab	Univ. of Leicester
15:00-16:15	ThIB12.3
Design of Sliding Mode Observers for TS Fuzzy Systems with Application to Disturbance and Actuator Fault Estimation , pp. 4373-4378.	
Gerland, Patrick	Univ. of Kassel
Gross, Dominic	Univ. of Kassel
Schulte, Horst	HTW Berlin, Univ. of Applied Science
Kroll, Andreas	Univ. of Kassel
15:00-16:15	ThIB12.4
Global-Local Structure Analysis for Fault Detection , pp. 4379-4384.	
Fu, Ruowei	Zhejiang Univ.
Zhang, MuGuang	Zhejiang Univ.
Song, Zhi-Huan	Zhejiang Univ.
Ge, Zhiqiang	Zhejiang Univ.
15:00-16:15	ThIB12.5
Fault Recovery of an Under-Actuated Quadrotor Aerial Vehicle , pp. 4385-4392.	
Ranjbaran, Mina	Concordia Univ.
Khorasani, Khashayar	Concordia Univ.
15:00-16:15	ThIB12.6
A Necessary and Sufficient Condition for \mathcal{H}_∞-Index of Linear Time-Varying Systems , pp. 4393-4398.	
Li, Xiaobo	Univ. of Toronto
Liu, Hugh Hong-Tao	Univ. of Toronto
15:00-16:15	ThIB12.7
A Measurement Analysis Approach to Online Fault Detection and Isolation for Linear Discrete-Time Uncertain Systems , pp. 4399-4404.	
Zhang, Ze	Imperial Coll. London
Jaimoukha, Imad M.	Imperial Coll. London
<hr/>	
ThIC01	Grand Salon East
Identification IV (Interactive Session)	
Chair: Findeisen, Rolf	OVG Univ. Magdeburg
Co-Chair: Ohta, Yoshito	Kyoto Univ.
16:45-18:00	ThIC01.1
Subspace Identification of Poorly Excited Industrial Systems , pp. 4405-4410.	
Privara, Samuel	Czech Tech. Univ. in Prague, Faculty of Electrical Engi
Cigler, Jiří	Czech Tech. Univ. in Prague, Faculty of Electrical Engi
Vana, Zdenek	Czech Tech. Univ. in Prague, Czech Republic
Ferkl, Lukas	Czech Tech. Univ. in Prague
Sebek, Michael	Czech Tech. Univ. in Prague
16:45-18:00	ThIC01.2
On-Line Nonlinear Systems Identification Via Dynamic Neural Networks with Multi-Time Scales , pp. 4411-4416.	
Han, Xuan	Concordia Univ.
Xie, Wenfang	Concordia Univ.
Ren, Xuemei	Beijing Inst. of Tech.
16:45-18:00	ThIC01.3
An Indirect Closed Loop Subspace Identification Method , pp. 4417-4422.	
Pouliquen, Mathieu	ENSICAEN
Gehan, Olivier	ISMRA
Pigeon, Eric	ISMRA
16:45-18:00	ThIC01.4
A Hybrid Approach for Parameter Optimization of RBF-AR Model , pp. 4423-4428.	
Gan, Min	Central South Univ.
Peng, Hui	Central South Univ.
16:45-18:00	ThIC01.5
Identification of Switched Dynamical Systems Over Finite Fields , pp. 4429-4434.	
Vo Tan, Phuoc	Nancy Univ.
Millerioux, Gilles	Nancy Univ.
Daafouz, Jamal	CRAN, UMR CNRS - Nancy Univ.
16:45-18:00	ThIC01.6
Parameter Estimation of Discrete and Continuous-Time Physical Models: A Similarity Transformation Approach , pp. 4435-4440.	
Ramos, Jose A.	Nova Southeastern Univ.
Lopes dos Santos, P.	Univ. do Porto
16:45-18:00	ThIC01.7
Sparse Input Matrix and State Estimation for Linear Systems , pp. 4441-4446.	
Chapel, Laetitia	National Univ. of Ireland Maynooth
Leith, Douglas J.	NUI Maynooth
16:45-18:00	ThIC01.8
On the Observability of Linear Systems from Random, Compressive Measurements , pp. 4447-4454.	
Wakin, Michael	Colorado School of Mines

Molazem Sanandaji, Borhan Vincent, Tyrone L.	Colorado School of Mines Colorado School of Mines
16:45-18:00	ThIC01.9
<i>An Interleaved, Model-Supported System Identification Scheme for the Particle Accelerator CLIC</i> , pp. 4455-4460.	
Pfingstner, Juergen Schulte, Daniel Schmickler, Hermann Hofbaur, Michael	CERN (European Organization for Nuclear Res. European Organization for Nuclear Res. (CERN) European Organization for Nuclear Res. (CERN) Private Univ. UMIT
16:45-18:00	ThIC01.10
<i>Continuous-Time System Identification Using Compactly Supported Filter Kernels Generated from Laguerre Basis Functions</i> , pp. 4461-4466.	
Kinoshita, Yasuhiro Ohta, Yoshito	Kyoto Univ. Kyoto Univ.
16:45-18:00	ThIC01.11
<i>An ell_0-ell_1 Norm Based Optimization Procedure for the Identification of Switched Nonlinear Systems</i> , pp. 4467-4472.	
Bako, Laurent Boukharouba, Khaled Lecoeuche, Stéphane	Ec. des Mines de Douai Ec. des Mines de Douai Ec. des Mines de Douai
16:45-18:00	ThIC01.12
<i>Reproducing Slugging Oscillations of a Real Oil Well</i> , pp. 4473-4479.	
Di Meglio, Florent Kaasa, Glenn-Ole Petit, Nicolas Alstad, Vldar	MINES ParisTech Statoil ASA MINES ParisTech Statoil ASA
16:45-18:00	ThIC01.13
<i>On Runge-Kutta Neural Networks: Training in Series-Parallel and Parallel Configuration</i> , pp. 4480-4485.	
Deflorian, Michael	BMW Group
ThIC02	Grand Salon East
Cooperative Control II (Interactive Session)	
Chair: Bullo, Francesco Co-Chair: Dong, Wenjie	Univ. California at Santa Barbara The Univ. of Texas - Pan American
16:45-18:00	ThIC02.1
<i>Velocity-Free Consensus Algorithms for Double-Integrator Dynamics with Input Saturations Constraints</i> , pp. 4486-4491.	
Abdessameud, Abdelkader Tayebi, Abdelhamid	Univ. of Western Ontario Lakehead Univ.
16:45-18:00	ThIC02.2
<i>Formation Control of Multiple Wheeled Mobile Robots with Uncertainty</i> , pp. 4492-4497.	
Dong, Wenjie	The Univ. of Texas - Pan American
16:45-18:00	ThIC02.3
<i>LQR-Type Distributed Linear Iterative Averaging Strategies</i> , pp. 4498-4503.	
Hui, Qing Liu, Zhenyi	Texas Tech. Univ. Texas Tech. Univ.
16:45-18:00	ThIC02.4
<i>Consensus for Double Integrator Dynamics with Heterogeneous Communication Topologies</i> , pp. 4504-4510.	
Goldin, Darina Attia, Sid Ahmed Raisch, Joerg	Tech. Univ. Berlin TU-Berlin Tech. Univ. Berlin
16:45-18:00	ThIC02.5
<i>Cooperative Receding Horizon Control for Multi-Agent Rendezvous Problems in Uncertain Environments</i> , pp. 4511-4516.	
Yao, Chen Ding, Xu Chu Cassandras, Christos G.	Boston Univ. Boston Univ. Boston Univ.
16:45-18:00	ThIC02.6
<i>Integral Hierarchical SMC of Uncertain Interconnected Systems</i> , pp. 4517-4522.	
Lin, Changqing Patton, Ron J. Zong, Qun	Tianjin Univ. Univ. of Hull Tianjin Univ.
16:45-18:00	ThIC02.7
<i>A Lower Bound for Distributed Averaging Algorithms on the Line Graph</i> , pp. 4523-4528.	
Olshevsky, Alexander Tsitsiklis, John	MIT Massachusetts Inst. of Tech.
16:45-18:00	ThIC02.8
<i>Synchronization of Multi-Agent Systems with Delayed Input Information from Neighbors</i> , pp. 4529-4534.	
Liu, Shuai Xie, Lihua Lewis, Frank L.	Nanyang Tech. Univ. Nanyang Tech. Univ. Univ. of Texas at Arlington
16:45-18:00	ThIC02.9
<i>Distributed LQR Design for Multi-Agent Formations</i> , pp. 4535-4540.	
Huang, Huang	Beijing Inst. of Tech.

Yu, CHANGBIN (Brad) Wu, Qinghe	The Australian National Univ. Beijing Inst. of Tech.
16:45-18:00	ThIC02.10
<i>Optimal UAV Coordination for Target Tracking Using Dynamic Programming</i> , pp. 4541-4546.	
Quintero, Steven Papi, Francesco Klein, Daniel J. Chisci, Luigi Hespanha, Joao P.	Univ. of California, Santa Barbara Univ. di Firenze Univ. of California, Santa Barbara Univ. di Firenze Univ. of California, Santa Barbara
16:45-18:00	ThIC02.11
<i>Formation Stabilization of VTOL UAVs Subject to Communication Delays</i> , pp. 4547-4552.	
Abdessameud, Abdelkader Tayebi, Abdelhamid	Univ. of Western Ontario Lakehead Univ.
16:45-18:00	ThIC02.12
<i>Decentralized Control of a Stochastic Dynamic Resource Allocation Problem</i> , pp. 4553-4558.	
Li, Peng Lim, Andrew E.B. Shanthikumar, J. George	Univ. of California Univ. of California-Berkeley Univ. of California
16:45-18:00	ThIC02.13
<i>Consensus of Output-Coupled Linear Multi-Agent Systems under Frequently Connected Network</i> , pp. 4559-4564.	
Vengertsev, Dmitry Kim, Hongkeun Shim, Hyungbo Seo, Jin H.	Seoul National Univ. Seoul National Univ. Seoul National Univ. Seoul National Univ.
16:45-18:00	ThIC02.14
<i>On the Structural Controllability of Multi-Agent Systems Subject to Failure: A Graph-Theoretic Approach</i> , pp. 4565-4570.	
Jafari, Saeid Ajorlou, Amir Aghdam, Amir G. Tafazoli, Siamak	Concordia Univ. Concordia Univ. Concordia Univ. Concordia Univ.
16:45-18:00	ThIC02.15
<i>A Distributed Cooperative Steering Control with Application to Nonholonomic Robots</i> , pp. 4571-4576.	
Wang, Jing Qu, Zhihua Obeng, Morrison	Bethune-Cookman Univ. Univ. of Central Florida Computer Engineering, Bethune-Cookman Univ.
16:45-18:00	ThIC02.16
<i>Swarm Splitting and Multiple Targets Seeking in Multi-Agent Dynamic Systems</i> , pp. 4577-4582.	
Chen, Zhifu Chu, Tianguang Zhang, Jianlei	Peking Univ. Peking Univ. Peking Univ.
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ThIC03	Grand Salon East
Adaptive Control VI (Interactive Session)	
Chair: Mestha, Lalit K. Co-Chair: Izadian, Afshin	Xerox Corp. IUPUI
16:45-18:00	ThIC03.1
<i>Pico-Droplet Dispensing Control in Digital Microfluidic Systems</i> , pp. 4583-4586.	
Izadian, Afshin Garrell, Robin	IUPUI Univ. of California, Los Angeles
16:45-18:00	ThIC03.2
<i>Adaptive Bases for Q-Learning</i> , pp. 4587-4593.	
Di Castro, Dotan Mannor, Shie	Tech. Israel Inst. of Tech. Tech.
16:45-18:00	ThIC03.3
<i>Adaptive Observer-Based Nonlinear Control in Microstepping for Permanent Magnet Stepper Motors</i> , pp. 4594-4599.	
Kim, Wonhee Shin, Donghoon Chung, Chung Choo	Hanyang Hanyang Univ. Seoul, Korea Hanyang Univ.
16:45-18:00	ThIC03.4
<i>Generalized Predictive Control Method for a Class of Nonlinear Systems Using ANFIS and Multiple Models</i> , pp. 4600-4605.	
Zhang, Yajun Chai, Tianyou Wang, Hong Fu, Jun	Northeastern Univ. Northeastern Univ. The Univ. of Manchester Northeastern Univ.
16:45-18:00	ThIC03.5
<i>Adaptive Output Feedback Control for a Class of Uncertain Nonlinear Systems with Actuator Failures</i> , pp. 4606-4611.	
Amezquita S., Kendrick Lin, Yan Butt, Waseem Aslam	Beijing Univ. of Aeronautics and Astronautics Beijing Univ. of Aeronautics and Astronautics Beijing Univ. of Aeronautics and Astronautics
16:45-18:00	ThIC03.7
<i>Power-Based Adaptive and Integral Control of Standard Mechanical Systems</i> , pp. 4612-4617.	

Dirksz, Daniel A. Scherpen, Jacqueliën M.A.	Univ. of Groningen Univ. of Groningen
16:45-18:00 <i>Adaptive-Based, Scalable Design for Autonomous Multi-Robot Surveillance</i> , pp. 4618-4624.	ThIC03.8
Renzaglia, Alessandro Doitsidis, Letteris Martinelli, Agostino Kosmatopoulos, Elias	INRIA Rhone-Alpes Tech. Educational Inst. of Crete INRIA - ETHZ Tech. Univ. of Crete
16:45-18:00 <i>A Unifying Approach to Extremum Seeking: Adaptive Schemes Based on Estimation of Derivatives</i> , pp. 4625-4630.	ThIC03.9
Nesic, Dragan Tan, Ying Moase, William Manzie, Chris	Univ. of Melbourne The Univ. of Melbourne The Univ. of Melbourne The Univ. of Melbourne
16:45-18:00 <i>Adaptive Output Regulation of a Class of Discrete-Time Nonlinear Systems Based on Output Feedback and NN Feedforward Control</i> , pp. 4631-4636.	ThIC03.10
Mizumoto, Ikuro Tanaka, Hiroki Tokimatsu, Toru	Kumamoto Univ. Kumamoto Univ. Kumamoto Univ.
16:45-18:00 <i>A Novel Generalized Value Iteration Scheme for Uncertain Continuous-Time Linear Systems</i> , pp. 4637-4642.	ThIC03.11
Lee, Jae Young Park, Jin Bae Choi, Yoon Ho	Yonsei Univ. Yonsei Univ. Kyonggi Univ.
16:45-18:00 <i>Asphalt Compaction Quality Control Using Artificial Neural Network</i> , pp. 4643-4648.	ThIC03.12
Beainy, Fares Commuri, Sesh Musharraf, Zaman	Univ. of Oklahoma Univ. of Oklahoma Univ. of Oklahoma
16:45-18:00 <i>Evaluation of Open-Loop Frequency Indicators in a Closed Loop for PID Controller Autotuning</i> , pp. 4649-4654.	ThIC03.13
Vrána, Stanislav Sulc, Bohumil Oswald, Cyril	Czech Tech. Univ. in Prague Czech Tech. Univ. in Prague Czech Tech. Univ. in Prague
16:45-18:00 <i>Adaptive Quantized Control for Linear Uncertain Systems Over Channels Subject to Packet Loss</i> , pp. 4655-4660.	ThIC03.14
Siami, Milad Hayakawa, Tomohisa Ishii, Hideaki Tsumura, Koji	Tokyo Inst. of Tech. Tokyo Inst. of Tech. Tokyo Inst. of Tech. The Univ. of Tokyo
16:45-18:00 <i>Adaptive Control of Hypersonic Vehicles in Presence of Aerodynamic and Center of Gravity Uncertainties</i> , pp. 4661-4666.	ThIC03.15
Somanath, Amith Annaswamy, Anuradha	Massachusetts Inst. of Tech. Massachusetts Inst. of Tech.
ThIC04	Grand Salon East
Biological and Biomedical Systems III (Interactive Session)	
Chair: Sepulchre, Rodolphe J. Co-Chair: Ghosh, Bijoy	Univ. de Liege Texas Tech. Univ.
16:45-18:00 <i>Modelling the Greenhouse Lettuce Crop by Means of the Daily Interaction of Two Independent Models</i> , pp. 4667-4672.	ThIC04.1
Leal-Enriquez, Erik Bonilla, Moises E.	Departamento de Control automatico, CINVESTAV, IPN CINVESTAV-IPN
16:45-18:00 <i>Modeling and Model Predictive Control of Hemodynamic Variables During Hemodialysis</i> , pp. 4673-4678.	ThIC04.2
Javed, Faizan Savkin, Andrey S. H. Chan, Gregory Mackie, James	UNSW Univ. of New South Wales The Univ. of New South Wales Prince of Wales Hospital
16:45-18:00 <i>Feedback Control of the Spatiotemporal Firing Patterns of Neural Microcircuits</i> , pp. 4679-4684.	ThIC04.3
Liu, Jianbo Oweiss, Karim G. Khalil, Hassan K.	MichiganState Univ. Michigan State Univ. Michigan State Univ.
16:45-18:00 <i>Chemical Kinetics and Mass Transport in an Ion Channel Based Biosensor</i> , pp. 4685-4690.	ThIC04.4
Moradi-Monfared, Sahar Krishnamurthy, Vikram Cornell, Bruce	Univ. of British Columbia Univ. of British Columbia Surgical Diagnostics Pty. Ltd.
16:45-18:00	ThIC04.5

<i>Optimization of a Photobioreactor Biomass Production Using Natural Light</i> , pp. 4691-4696.	
Grognard, Frederic	INRIA Sophia-Antipolis
Akhmetzhanov, Andrei	INRIA Sophia Antipolis
Masci, Pierre	INRIA Sophia Antipolis
Bernard, Olivier	Inria
16:45-18:00	ThIC04.6
<i>Topological Tradeoffs in Autocatalytic Metabolic Pathways</i> , pp. 4697-4702.	
Buzi, Gentian	California Inst. of Tech.
Doyle, John C.	California Inst. of Tech.
16:45-18:00	ThIC04.7
<i>Constrained Kalman Filtering for IMRT Optimization</i> , pp. 4703-4708.	
Dasanayake, Isuru Sammana	Washington Univ. in St.Louis
El Naqa, Issam	Washington Univ. in St. Louis
Li, Jr-Shin	Washington Univ. in St. Louis
16:45-18:00	ThIC04.8
<i>Computer-Aided Drug Discovery for Pathway and Genetic Diseases</i> , pp. 4709-4714.	
Aswani, Anil	Univ. of California at Berkeley
Tomlin, Claire J.	UC Berkeley
16:45-18:00	ThIC04.9
<i>Performance Limitations in Autocatalytic Networks in Biology</i> , pp. 4715-4720.	
Motee, Nader	Caltech
Chandra, Fiona Adriani	California Inst. of Tech.
Bamieh, Bassam	Univ. of California at Santa Barbara
Khammash, Mustafa H.	Univ. of California at Sta. Barbara
Doyle, John C.	California Inst. of Tech.
16:45-18:00	ThIC04.10
<i>Hybrid Control of Type 1 Diabetes Bolus Therapy</i> , pp. 4721-4726.	
Trogmann, Hannes	Johannes Kepler Univ. Linz
Kirchsteiger, Harald	Johannes Kepler Univ. Linz
Del Re, Luigi	Johannes Kepler Univ. Linz
ThIC05	Grand Salon East
Networked Control Systems I (Interactive Session)	
Chair: Elia, Nicola	Iowa State Univ.
Co-Chair: Pappas, George J.	Univ. of Pennsylvania
16:45-18:00	ThIC05.1
<i>Relaxing the Consistency Condition in Distributed Event-Triggered Networked Control Systems</i> , pp. 4727-4732.	
Wang, Xiaofeng	Univ. of Illinois at Urbana-Champaign
Sun, Yu	Univ. of Illinois, Urbana-Champaign
Hovakimyan, Naira	Univ. of Illinois, Urbana-Champaign
16:45-18:00	ThIC05.2
<i>Optimal Quantization Interval Design of Dynamic Quantizers Which Satisfy the Communication Rate Constraints</i> , pp. 4733-4739.	
Okajima, Hiroshi	Kumamoto Univ.
Matsunaga, Nobutomo	Kumamoto Univ.
Sawada, Kenji	Univ. of Electro-Communications
16:45-18:00	ThIC05.3
<i>Synchronous Rendezvous of Very-Low-Range Wireless Agents</i> , pp. 4740-4745.	
Zavlanos, Michael M.	Stevens Inst. of Tech.
16:45-18:00	ThIC05.4
<i>Stabilization of Nonlinear Plants with Sampled Information</i> , pp. 4746-4752.	
Conte, Giuseppe	Univ. Pol. delle Marche
Perdon, Anna Maria	Univ. Pol. delle Marche
Vitaioli, Giorgio	Univ. Pol. delle Marche
16:45-18:00	ThIC05.5
<i>A New Stability and Time-Delay Tolerance Analysis Approach for Networked Control Systems</i> , pp. 4753-4758.	
Khalil, Ashraf F	Univ. of Birmingham
Wang, Jihong	Univ. of Birmingham
16:45-18:00	ThIC05.6
<i>Mean-Square Boundedness of Stochastic Networked Control Systems with Bounded Control Inputs</i> , pp. 4759-4764.	
Chatterjee, Debasish	ETH Zurich
Amin, Saurabh	Univ. of California, Berkeley
Hokayem, Peter	ETH Zurich
Lygeros, John	ETH Zurich
Sastry, Shankar	Univ. of California at Berkeley
16:45-18:00	ThIC05.7
<i>Suf.; Cient Conditions for Stabilizability Over Gaussian Relay and Cascade Channels</i> , pp. 4765-4770.	
Kumar, Utsav	Univ. of Notre Dame
Gupta, Vijay	Univ. of Notre Dame
Laneman, Nicholas	Univ. of Notre Dame
16:45-18:00	ThIC05.8

<i>Sufficient Conditions for Closed-Loop Control Over Multiple-Access and Broadcast Channels</i> , pp. 4771-4776.	Royal Inst. of Tech. (KTH), Sweden Royal Inst. of Tech. (KTH) Royal Inst. of Tech.
Zaidi, Syed Ali Abbas Oechtering, Tobias Skoglund, Mikael	
16:45-18:00	ThIC05.9
<i>Accuracy and Decision Time for a Class of Sequential Decision Aggregation Rules</i> , pp. 4777-4782.	Univ. of California, Santa Barbara Univ. of Padova Univ. California at Santa Barbara
Dandach, Sandra Hala Carli, Ruggero Bullo, Francesco	
16:45-18:00	ThIC05.10
<i>Effect of Network Structure on the Stability Margin of Large Vehicle Formation with Distributed Control</i> , pp. 4783-4788.	Univ. of Florida Univ. of Florida Portland State Univ.
Hao, He Barooah, Prabir Veerman, J. J. P.	
16:45-18:00	ThIC05.11
<i>Dynamic Average Consensus Over Random Networks with Additive Noise</i> , pp. 4789-4794.	iowa state Univ. Iowa State Univ.
Wang, Jing Elia, Nicola	
16:45-18:00	ThIC05.12
<i>Design of Distributed Controllers Realizable Over Arbitrary Directed Networks</i> , pp. 4795-4800.	Iowa State Univ. Iowa State Univ.
Andalam, Satya Mohan Vamsi Elia, Nicola	

ThIC06 Grand Salon East

Optimal Control I (Interactive Session)

Chair: Loukianov, Alexander G. Co-Chair: Verriest, Erik I.	CINVESTAV IPN GDI Georgia Inst. of Tech.
16:45-18:00	ThIC06.1
<i>Data-Based Controller Tuning: Improving the Convergence Rate</i> , pp. 4801-4806.	Univ. Federal do Rio Grande do Sul Univ. Federal Do Rio Grande Do Sul
Eckhard, Diego Bazanella, Alexandre S.	
16:45-18:00	ThIC06.2
<i>Upper Bounds on the Best Achievable Performance for Time-Weighted Cost Functionals</i> , pp. 4807-4812.	Univ. Tecnica Federico Santa Maria Univ. Tecnica Federico Santa Maria
Silva, Eduardo I. Carrasco, Diego S.	
16:45-18:00	ThIC06.3
<i>Discrete-Time Inverse Optimal Control for Nonlinear Systems Trajectory Tracking</i> , pp. 4813-4818.	Cinvestav CINVESTAV CINVESTAV IPN GDI
Ornelas, Fernando Sanchez, Edgar N. Loukianov, Alexander G.	
16:45-18:00	ThIC06.4
<i>Minimum Time Control of a Second-Order System</i> , pp. 4819-4824.	Boston Univ. Boston Univ.
Shen, Zhaolong Andersson, Sean	
16:45-18:00	ThIC06.5
<i>On Connecting Periodic Trajectories with Quasi-Periodic Paths</i> , pp. 4825-4830.	Georgia Inst. of Tech. Georgia Inst. of Tech.
Yeung, Deryck Verriest, Erik I.	
16:45-18:00	ThIC06.6
<i>Necessary Conditions for Optimality for a Distributed Optimal Control Problem</i> , pp. 4831-4838.	Duke Univ. Duke Univ.
Foderaro, Greg Ferrari, Silvia	
16:45-18:00	ThIC06.7
<i>Optimal Control Equation for Quantum Stochastic Differential Equations</i> , pp. 4839-4844.	Tarbiat Modares Univ. Tarbiat Modares Univ. of Tehran
Sharifi, Javad Momeni, Hamidreza	
16:45-18:00	ThIC06.8
<i>An Inverse Optimality Method to Solve a Class of Third Order Optimal Control Problems</i> , pp. 4845-4850.	Concordia Univ. Defence R&D Canada Concordia Univ.
Gholitabar Omrani, Behnam Rabbath, Camille Alain Rodrigues, Luis	

ThIC07 Grand Salon East

Automotive and Aerospace Systems (Interactive Session)

Chair: Jeltsema, Dimitri Co-Chair: Solo, Victor	Delft Univ. of Tech. Univ. of New South Wales
16:45-18:00	ThIC07.1
<i>On the Fuel and Energy Consumption Optimization Problem in Aircraft Path Planning</i> , pp. 4851-4856.	Virginia Pol. Inst. and State Univ. Virginia Tech.
L'Afflitto, Andrea Sultan, Cornel	

16:45-18:00		ThIC07.2
<i>Attitude Estimation and Brownian Motion on SO(3)</i> , pp. 4857-4862.		
Solo, Victor		Univ. of New South Wales
16:45-18:00		ThIC07.3
<i>Control of a Two-Load-Path Trimmable Horizontal Stabilizer Actuator of an Aircraft -- Comparison of H-Infinity Design Approaches</i> , pp. 4863-4868.		
Huang, Yu		Hamburg Univ. of Tech.
Pe, Timo		Hamburg Univ. of Tech.
Popov, Andrey		Hamburg Univ. of Tech.
Werner, Herbert		Hamburg Univ. of Tech.
Thielecke, Frank		Hamburg Univ. of Tech.
16:45-18:00		ThIC07.4
<i>Path Following for an Autonomous Paraglider</i> , pp. 4869-4874.		
Toglia, Chiara		Univ. di Roma 'La Sapienza'
Vendittelli, Marilena		Univ. of Rome La Sapienza
Lanari, Leonardo		Univ. di Roma 'La Sapienza'
16:45-18:00		ThIC07.5
<i>Dynamic Reconfiguration of Terminal Airspace During Convective Weather</i> , pp. 4875-4881.		
Michalek, Diana		Massachusetts Inst. of Tech.
Balakrishnan, Hamsa		Massachusetts Inst. of Tech.
16:45-18:00		ThIC07.6
<i>Driving/Braking Force Distribution of Four Wheel Vehicle by Quadratic Programming with Constraints</i> , pp. 4882-4889.		
Suzuki, Ryo		Shinshu Univ.
Ikeda, Yuichi		Shinshu Univ.
16:45-18:00		ThIC07.7
<i>Nonlinear Model Predictive Control for Power-Split Hybrid Electric Vehicles</i> , pp. 4890-4895.		
Borhan, Hoseinali		Clemson Univ.
Zhang, Chen		Clemson Univ.
Vahidi, Ardalan		Clemson Univ.
Phillips, Anthony M.		Ford Motor Co.
Kuang, Ming L.		Ford Motor Co.
Di Cairano, Stefano		Ford Motor Company
16:45-18:00		ThIC07.8
<i>Control of a Logistic Node Via Neuro-Dynamic Programming</i> , pp. 4896-4901.		
Boccardo, Mauro		Univ. di Perugia
Martinelli, Francesco		Univ. di Roma Tor Vergata
16:45-18:00		ThIC07.9
<i>Optimal Path Planning for an Aerial Vehicle in 3D Space</i> , pp. 4902-4907.		
Hota, Sikha		Indian Inst. of Science
Ghose, Debasish		Indian Inst. of Science
16:45-18:00		ThIC07.10
<i>Robust Position Control of a Tilt-Wing Quadrotor</i> , pp. 4908-4913.		
Hancer, Cevdet		Sabanc1; Univ.
Oner, Kaan		Sabanc1; Univ.
Sirimoglu, Efe		Sabanc1; Univ.
Cetinsoy, Ertugrul		Sabanc1; Univ.
Unel, Mustafa		Sabanci Univ.
16:45-18:00		ThIC07.11
<i>Controllability of a Rotating Body with a Single Rotor under Conservation of Angular Momentum</i> , pp. 4914-4919.		
Date, Hisashi		National Defense Acad.
Takita, Yoshihiro		National Defense Acad.
16:45-18:00		ThIC07.12
<i>Dynamic Input Allocation of Torque References for a Parallel HEV</i> , pp. 4920-4925.		
Cordiner, Stefano		Univ. of Rome Tor Vergata
Galeani, Sergio		Univ. Di Roma Tor Vergata
Mecocci, Francesco		Univ. of Rome, Tor Vergata
Mulone, Vincenzo		Univ. of Rome Tor Vergata
Perantoni, Giacomo		Univ. of Oxford
Zaccarian, Luca		Univ. di Roma, Tor Vergata
16:45-18:00		ThIC07.13
<i>Cooperative Control with Adaptive Graph Laplacians for Spacecraft Formation Flying</i> , pp. 4926-4933.		
Chang, Insu		Univ. of Illinois at Urbana-Champaign
Chung, Soon-Jo		Univ. of Illinois at Urbana-Champaign
Blackmore, Lars		California Inst. of Tech. Jet Propulsion Lab.
16:45-18:00		ThIC07.14
<i>Dynamics Exploration of a Single-Track Rigid Car Model with Load Transfer</i> , pp. 4934-4939.		
Rucco, Alessandro		Univ. del Salento
Notarstefano, Giuseppe		Univ. of Lecce
Hauser, John		Univ. of Colorado at Boulder

Linear Systems I (Interactive Session)

Chair: Germani, Alfredo	Univ. dell'Aquila
Co-Chair: Cantoni, Michael	Univ. of Melbourne
16:45-18:00	ThIC08.1
<i>On the Equivalence of Two Recent Control Over Network Results</i> , pp. 4940-4945.	
Rojas, Alejandro J.	Univ. de Concepción
16:45-18:00	ThIC08.2
<i>Analytical Neighboring Optimal Guidance to Finite Horizon Linear Quadratic Tracking Problems</i> , pp. 4946-4951.	
Xu, Yunjun	Univ. of Central Florida
Basset, Gareth	Univ. of Central Florida
16:45-18:00	ThIC08.3
<i>Asymptotic Properties of Zeros of Sampled-Data Systems</i> , pp. 4952-4957.	
Ishitobi, Mitsuaki	Kumamoto Univ.
Koga, Tomoki	Kumamoto Univ.
Nishi, Masatoshi	Kumamoto Univ.
Kunimatsu, Sadaaki	Kumamoto Univ.
16:45-18:00	ThIC08.4
<i>Controller Compensator Conversions to Estimator-Controller Forms</i> , pp. 4958-4964.	
Chang, Michael	Western Digital Corp.
16:45-18:00	ThIC08.5
<i>Robust Generalized Asymptotic Regulation Via an LPV Controller without Parameter Derivative Dependence</i> , pp. 4965-4971.	
Koroglu, Hakan	Eindhoven Univ. of Tech.
16:45-18:00	ThIC08.6
<i>A Lambert W Function Approach for Decay Function Estimation in Linear Time Delay Systems</i> , pp. 4972-4977.	
Duan, Shiming	Univ. of Michigan
Ni, Jun	Univ. of Michigan
Ulsoy, A. Galip	Univ. of Michigan
16:45-18:00	ThIC08.7
<i>A Method for Internally Positive Realization of Continuous Time Systems</i> , pp. 4978-4983.	
Cacace, Filippo	Univ. Campus Biomedico di Roma
Farina, Lorenzo	Univ. Di Roma "la Sapienza"
Germani, Alfredo	Univ. dell'Aquila
Manes, Costanzo	Univ. dell'Aquila
16:45-18:00	ThIC08.8
<i>On the Fractional-Order Distributed Parameter Low-Pass Filter</i> , pp. 4984-4989.	
Li, Yan	Shandong Univ.
Sheng, Hu	Utah State Univ.
Chen, YangQuan	Utah State Univ.
16:45-18:00	ThIC08.9
<i>Synthesis of Static Output Feedback SPR Systems Via LQR Weighting Matrix Design</i> , pp. 4990-4995.	
Yu, Jen-te	Rockwell Scientific
Chiang, Ming-Li	National Taiwan Univ.
Fu, Li-Chen	National Taiwan Univ.
16:45-18:00	ThIC08.10
<i>Quadratic Optimal Control of Linear Systems with Time-Varying Input Delay</i> , pp. 4996-5000.	
Carravetta, Francesco	IASI-CNR
Palumbo, Pasquale	IASI-CNR
Pepe, Pierdomenico	Univ. of L' Aquila
16:45-18:00	ThIC08.11
<i>Partial Pole Placement with Minimum Norm Controller</i> , pp. 5001-5006.	
Datta, Subashish	Indian Inst. of Tech. Bombay
Chaudhuri, Balarko	GE
Chakraborty, Debraj	Indian Inst. of Tech. Bombay

ThIC09

Grand Salon East

Filtering and Estimation II (Interactive Session)

Chair: Saberi, Ali	Washington State Univ.
Co-Chair: Manamanni, Nouredine	Univ. of Reims
16:45-18:00	ThIC09.1
<i>Globally Optimal Kalman Filtering with Finite-Time Correlated Noises</i> , pp. 5007-5012.	
Jiang, Pei	Sichuan Univ.
Zhou, Jie	Sichuan Univ.
Zhu, Yunmin	Sichuan Univ.
16:45-18:00	ThIC09.2
<i>A Novel Power-Bearing Approach and Asymptotically Optimum Estimator for Target Motion Analysis</i> , pp. 5013-5018.	
Gu, Guoxiang	Louisiana State Univ.
16:45-18:00	ThIC09.3
<i>Simultaneous Constrained Moving Horizon State Estimation and Model Predictive Control by Multi-Parametric Programming</i> , pp. 5019-5024.	
Voelker, Anna	Imperial Coll. London

Kouramas, Konstantinos Pistikopoulos, Efstratios N.	Imperial Coll. London Imperial Coll.
16:45-18:00 Regularised Estimators for Fractional Gaussian Noise , pp. 5025-5030.	ThIC09.4
Vivero, Oskar Heath, William Paul	The Univ. of Manchester Univ. of Manchester
16:45-18:00 Real-Time Synchronization Feedbacks for Single-Atom Frequency Standards: V and Lambda-Structure Systems , pp. 5031-5036.	ThIC09.5
Mirrahimi, Mazyar Sarlette, Alain Rouchon, Pierre	INRIA Paris-Rocquencourt Univ. of Liege (Belgium) Mines ParisTech
16:45-18:00 Robust Estimator for Uncertain Stochastic Systems , pp. 5037-5042.	ThIC09.6
George, Jemin Linares, Richard	SUNY at Buffalo Univ. at Buffalo
16:45-18:00 High-Gain Observer Design for Domination of Nonlinear Perturbations: Transformation to a Canonical Form by Dynamic Output Shaping , pp. 5043-5049.	ThIC09.7
Grip, Håvard Fjær Saberli, Ali	Washington State Univ. Washington State Univ.
16:45-18:00 Distributed Parameter Estimation in Networks , pp. 5050-5055.	ThIC09.8
Rahnama Rad, Kamiar Tahbaz-Salehi, Alireza	Columbia Univ. Massachusetts Inst. of Tech.
16:45-18:00 A Quaternion-Based Complementary Sliding Mode Observer for Attitude Estimation: Application in Free-Ranging Animal Motions , pp. 5056-5061.	ThIC09.9
Fourati, Hassen Manamanni, Nouredine Ben jema, Abd Hak Afilal, Lissan Handrich, Yves	Univ. Louis Pasteur, Strasbourg Univ. of Reims Univ. de Reims Champagne Ardenne URCA Univ. Louis Pasteur, strasbourg
16:45-18:00 Infinite-Dimensional Sampled-Data Kalman Filtering and the Stochastic Heat Equation , pp. 5062-5067.	ThIC09.10
Sallberg, Scott A. Maybeck, Peter S. Oxley, Mark E.	MZA Associates Corp. AFIT / ENG Air Force Inst. of Tech.
16:45-18:00 Distributed Receding Horizon Kalman Filter , pp. 5068-5073.	ThIC09.11
Maestre, J.M. Giselsson, Pontus Rantzer, Anders	Univ. of Seville Lund Univ. Lund Univ.
16:45-18:00 Synchronous Motor Observability Study and an Improved Zero-Speed Position Estimation Design , pp. 5074-5079.	ThIC09.12
Zaitni, Dalila Ghanes, Malek Barbot, Jean Pierre Abdelkrim, Mohamed Naceur	Univ. of gabes ENSEA ENSEA ENIG
16:45-18:00 Multiple Hypotheses Mixing Filter for Hybrid Markovian Switching Systems , pp. 5080-5085.	ThIC09.13
Santana, Pedro Henrique de Rodrigues Quemel e Assis Menegaz, Henrique Marra Borges, Geovany A. Ishihara, João Yoshiyuki	Univ. of Brasilia Univ. of Brasilia Univ. de Brasilia Univ. of Brasilia
16:45-18:00 Estimation of Occupancy Level in Indoor Environment Based on Heterogeneous Information Fusion , pp. 5086-5091.	ThIC09.14
Wang, Heng-Tao Jia, Qing-Shan Song, Chen Yuan, Ruixi Guan, Xiaohong	Tsinghua Univ. TNLIST, Tsinghua Univ. United Tech. Res. Center Tsinghua Univ. Xian Jiaotong Univ.

ThIC10

Grand Salon East

Sliding Mode Control II (Interactive Session)

Chair: Spurgeon, Sarah K. Co-Chair: Ferrara, Antonella	Univ. of Kent Univ. of Pavia
16:45-18:00 A Generalized Proportional Integral Approach to Sliding Mode Controller Design in Switched Systems , pp. 5092-5097.	ThIC10.1
Sira-Ramirez, Hebert Luviano-Juárez, Alberto Cortés-Romero, John	CINVESTAV CINVESTAV - IPN México Univ. Nacional de Colombia

16:45-18:00		ThIC10.2
A New Differentiator Based on a Second Order Sliding Mode Output Feedback Control , pp. 5098-5102.		
Plestan, Franck	Ec. Centrale de Nantes-IRCCyN	
Glumineau, Alain	Ec. Centrale Nantes	
16:45-18:00		ThIC10.3
Switched Second Order Sliding Mode Control , pp. 5103-5108.		
Tanelli, Mara	Pol. di Milano	
Ferrara, Antonella	Univ. of Pavia	
16:45-18:00		ThIC10.4
Super-Twisting Adaptive Sliding Mode Control: A Lyapunov Design , pp. 5109-5113.		
Shtessel, Yuri B.	Univ. of Alabama at Huntsville	
Moreno, Jaime A.	Univ. Nacional Autonoma de Mexico-UNAM	
Plestan, Franck	Ec. Centrale de Nantes-IRCCyN	
Fridman, Leonid M.	National Autonomous Univ.	
Poznyak, Alexander S.	CINVESTAV-IPN	
16:45-18:00		ThIC10.5
A Hybrid Global Robust Finite-Time Differentiator , pp. 5114-5119.		
Efimov, Denis	Inst. for Problems of Mechanical Eng.	
Fridman, Leonid M.	National Autonomous Univ.	
16:45-18:00		ThIC10.6
Second Order Sliding Mode Observer for Anomaly Detection in TCP Networks: From Theory to Practice , pp. 5120-5125.		
Rahme, Sandy	Univ. of Toulouse, LAAS-CNRS	
Gouaisbaut, Frederic	Univ. of Toulouse, LAAS CNRS	
Labit, Yann	Univ. of Toulouse, LAAS CNRS	
Floquet, Thierry	CNRS	
16:45-18:00		ThIC10.7
Adaptive Finite Reaching Time Control and Continuous Second Order Sliding Modes , pp. 5126-5131.		
Shtessel, Yuri B.	Univ. of Alabama at Huntsville	
Edwards, Christopher	Univ. of Leicester	
Spurgeon, Sarah K.	Univ. of Kent	
Kochalummoottil, Jose	Univ. of Alabama, Huntsville	
16:45-18:00		ThIC10.8
Using Interactive Tools to Teach/Learn Sliding Mode Control , pp. 5132-5137.		
Carrero Candelas, Niliana	Univ. Pol. de Catalunya (UPC)	
Costa-Castelló, Ramon	Univ. Pol. de Catalunya	
Dormido, Sebastián	UNED	
Fossas, Enric	Univ. Pol. de Catalunya	
16:45-18:00		ThIC10.9
Design of Mixed Luenberger and Sliding Continuous Mode Observer Using Sampled Output Information , pp. 5138-5143.		
Salgado, Ivan	Univ. Nacional Autonoma de Mexico	
Chairez Oria, Isaac	CINVESTAV-IPN	
Moreno, Jaime A.	Univ. Nacional Autonoma de Mexico-UNAM	
Fridman, Leonid M.	National Autonomous Univ.	
16:45-18:00		ThIC10.10
Chattering Analysis of Time-Delayed Second-Order Sliding Mode Control Systems Using Poincare Map , pp. 5144-5149.		
Li, Xiangjun	RMIT	
Yu, Xinghuo	RMIT Univ.	
Han, Qing-Long	Central Queensland Univ.	
16:45-18:00		ThIC10.11
Gain-Scheduled High-Order MIMO Sliding Mode Control , pp. 5150-5155.		
Levant, Arie	Tel - Aviv Univ.	

ThIC11

Grand Salon East

Constrained Control I (Interactive Session)

Chair: Maciejowski, Jan M.	Univ. of Cambridge
Co-Chair: Del Re, Luigi	Johannes Kepler Univ. Linz
16:45-18:00	ThIC11.1
Input Constrained Non-Equilibrium Transient Trajectory Shaping Control for a Class of Nonlinear Systems , pp. 5156-5161.	
Yan, Fengjun	The Ohio State Univ.
Wang, Junmin	Ohio State Univ.
16:45-18:00	ThIC11.2
Non-Equilibrium Transient Trajectory Shaping Control Via a Three-Stage Switching Method for a Class of Nonlinear Systems , pp. 5162-5167.	
Yan, Fengjun	The Ohio State Univ.
Wang, Junmin	Ohio State Univ.
16:45-18:00	ThIC11.3
Continuous Preview Control of Dual-Stage Actuator Systems for Reduced Transition Time , pp. 5168-5173.	
Salton, Aurelio Tergolina	Univ. of Newcastle, Australia
Chen, Zhiyong	The Univ. of Newcastle
Zheng, Jinchuan	The Univ. of Newcastle, Australia
Fu, Minyue	Univ. of Newcastle

16:45-18:00		ThIC11.4
<i>Saturating Set Point Tracking Control for Linear Systems Subject to Input Constraints</i> , pp. 5174-5179.		
Kefferpütz, Klaus		Tech. Univ. Darmstadt
Adamy, Jürgen		Tech. Univ. Darmstadt
16:45-18:00		ThIC11.5
<i>Quality Improvement of Tandem Hot Metal Strip Rolling Using an Augmented State-Dependent Riccati Equation Technique</i> , pp. 5180-5185.		
Pittner, John		Univ. of Pittsburgh
Simaan, Marwan A.		Univ. of Central Florida
16:45-18:00		ThIC11.6
<i>Constrained Control Using Error Governors with Online Parameter Estimation</i> , pp. 5186-5191.		
Kahveci, Nazli E.		Ford Motor Company
Kolmanovsky, Ilya V.		The Univ. of Michigan
16:45-18:00		ThIC11.7
<i>State-Constrained Control Based on Linearization of the Hamilton-Jacobi-Bellman Equation</i> , pp. 5192-5197.		
Wik, Torsten		Chalmers Univ. of Tech.
Rutquist, Per		Tomlab Optimization AB
Breitholtz, Claes		Chalmers Univ. of Tech.
16:45-18:00		ThIC11.8
<i>Robust Control of Linear Systems with Bounded State Dependent Additive Disturbances</i> , pp. 5198-5203.		
Ghaemi, Reza		Univ. of Michigan (Ann Arbor)
Kolmanovsky, Ilya V.		The Univ. of Michigan
Sun, Jing		Univ. of Michigan
16:45-18:00		ThIC11.9
<i>Control of a Bicycle Using Virtual Holonomic Constraints</i> , pp. 5204-5209.		
Consolini, Luca		Univ. of Parma
Maggiore, Manfredi		Univ. of Toronto
16:45-18:00		ThIC11.10
<i>Convergence of Discrete-Time Approximations of Constrained Linear-Quadratic Optimal Control Problems</i> , pp. 5210-5215.		
Han, Lanshan		Univ. of Illinois at Urbana-Champaign
Camlibel, Kanat		Univ. of Groningen
Pang, Jong-Shi		Univ. of Illinois, Urbana-Champaign
Heemels, Maurice		Eindhoven Univ. of Tech.
16:45-18:00		ThIC11.11
<i>Hierarchical Multi-Rate Control Design for Constrained Linear Systems</i> , pp. 5216-5221.		
Barcelli, Davide		Univ. of Siena
Bemporad, Alberto		Univ. of Trento
Ripaccioli, Giulio		Univ. degli Studi di Siena
16:45-18:00		ThIC11.12
<i>Global Practical Stabilization of Third Order Integrator Chain with Actuator Saturation and Input Additive Disturbances</i> , pp. 5222-5226.		
Fang, Haijun		MKS Inst.
16:45-18:00		ThIC11.13
<i>Invariant Set Computation for Constrained Uncertain Discrete-Time Linear Systems</i> , pp. 5227-5232.		
Athanasopoulos, Nikolaos		Univ. of Patras, Greece
Bitsoris, Georges		Univ. of Patras

Friday

FrPL		Grand Ballroom East
The Role of Theory in Control Practice (Bode Lecture) (Plenary Session)		
Chair: Samad, Tariq		Honeywell Lab.
Co-Chair: Tempo, Roberto		Pol. di Torino
08:30-09:30		FrPL.1
<i>The Role of Theory in Control Practice*</i> .		
Morari, Manfred		ETH Zurich
FrA01		Room 201
Constrained Control II (Regular Session)		
Chair: Maggiore, Manfredi		Univ. of Toronto
Co-Chair: Camlibel, Kanat		Univ. of Groningen
10:00-10:20		FrA01.1
<i>Switching Adaptive Realization of a Weakened Anti-Windup Compensator</i> , pp. 5233-5238.		
Bruckner, Martin		Johannes Kepler Univ. Linz
Galeani, Sergio		Univ. Di Roma Tor Vergata
Del Re, Luigi		Johannes Kepler Univ. Linz
10:20-10:40		FrA01.2
<i>Surface Excavation with Model Predictive Control</i> , pp. 5239-5244.		
Shekhar, Rohan C.		Univ. of Cambridge

Maciejowski, Jan M.	Univ. of Cambridge
10:40-11:00	FrA01.3
<i>Anti-Windup in Anticipation of Actuator Saturation</i> , pp. 5245-5250.	
Wu, Xiongjun	Shanghai Jiao Tong Univ.
Lin, Zongli	Univ. of Virginia
11:00-11:20	FrA01.4
<i>Stability Conditions for Constrained Two-Stage Internal Model Control</i> , pp. 5251-5256.	
Adegbege, Ambrose Adebayo	The Univ. of Manchester, UK
Heath, William Paul	Univ. of Manchester
11:20-11:40	FrA01.5
<i>Least-Restrictive Robust MPC of Periodic Affine Systems with Application to Building Climate Control</i> , pp. 5257-5263.	
Gondhalekar, Ravi	Osaka Univ.
Oldewurtel, Frauke	ETH Zurich
Jones, Colin Neil	ETH Zurich
11:40-12:00	FrA01.6
<i>Time-Optimal Dynamic Path Inversion for an Automatic Guided Vehicle</i> , pp. 5264-5269.	
Lini, Gabriele	Univ. of Parma
Piazzì, Aurelio	Univ. of Parma

FrA02 Room 202

Predictive Control for Linear Systems (Regular Session)

Chair: Ferri, Bonnie	Georgia Inst. of Tech.
Co-Chair: Bemporad, Alberto	Univ. of Trento
10:00-10:20	FrA02.1
<i>Performance-Lossless Complexity Reduction in Explicit MPC</i> , pp. 5270-5275.	
Kvasnica, Michal	Slovak Univ. of Tech. in Bratislava
Fikar, Miroslav	Slovak Univ. of Tech. in Bratislava
10:20-10:40	FrA02.2
<i>Robust Stability Properties of Soft Constrained MPC</i> , pp. 5276-5282.	
Zeilinger, Melanie Nicole	ETH Zurich
Jones, Colin Neil	ETH Zurich
Morari, Manfred	ETH Zurich
10:40-11:00	FrA02.3
<i>On the Choice of the Linear Decision Functions for Point Location in Polytopic Data Sets - Application to Explicit MPC</i> , pp. 5283-5288.	
Fuchs, Alexander	ETH Zurich
Axehill, Daniel	ETH Zurich
Morari, Manfred	ETH Zurich
11:00-11:20	FrA02.4
<i>An MPC Scheme with Guaranteed Stability for Linear Singularly Perturbed Systems</i> , pp. 5289-5295.	
Wogrin, Melanie	Univ. degli Studi del Sannio
Glielmo, Luigi	Univ. of Sannio
11:20-11:40	FrA02.5
<i>Synthesis of Stabilizing Model Predictive Controllers Via Canonical Piecewise Affine Approximations</i> , pp. 5296-5301.	
Bemporad, Alberto	Univ. of Trento
Oliveri, Alberto	Univ. of Genoa
Poggi, Tomaso	Univ. of Genoa
Storace, Marco	Univ. of Genoa
11:40-12:00	FrA02.6
<i>Prediction-Based Bandwidth Reservation</i> , pp. 5302-5307.	
Ahmed, Safayet	Georgia Inst. of Tech.
Ferri, Bonnie	Georgia Inst. of Tech.

FrA03 Room 203

Stochastic Systems II (Regular Session)

Chair: Vaidya, Umesh	Iowa State Univ.
Co-Chair: Tadic, Vladislav	Univ. of Bristol
10:00-10:20	FrA03.1
<i>Nonlinear Observation Over Erasure Channel</i> , pp. 5308-5313.	
Diwadkar, Amit	Iowa State Univ.
Vaidya, Umesh	Iowa State Univ.
10:20-10:40	FrA03.2
<i>Minimum Relative Entropy State Transitions in Discrete Time Systems with Statistically Uncertain Noise</i> , pp. 5314-5320.	
Vladimirov, Igor G.	UNSW@ADFA
Petersen, Ian R.	Univ. of New South Wales
10:40-11:00	FrA03.3
<i>Convergence and Convergence Rate of Stochastic Gradient Search in the Case of Multiple and Non-Isolated Extrema</i> , pp. 5321-5326.	
Tadic, Vladislav	Univ. of Bristol
11:00-11:20	FrA03.4
<i>Preference Elicitation in Fully Probabilistic Design of Decision Strategies</i> , pp. 5327-5332.	
Karny, Miroslav	Inst. of Information Theory And Automation, A V C R

Guy, Tatiana Valentine	Inst. of Information Theory And Automation
11:20-11:40	FrA03.5
Mean-Square State and Noise Intensity Estimation for Uncertain Linear Systems , pp. 5333-5337.	
Basin, Michael V.	Autonomous Univ. of Nuevo Leon
Loukianov, Alexander G.	CINVESTAV IPN GDI
Hernandez-Gonzalez, Miguel	Centro de investigacion y estudios avanzados
11:40-12:00	FrA03.6
An Approximate Stochastic Annealing Algorithm for Finite Horizon Markov Decision Processes , pp. 5338-5343.	
Hu, Jiaqiao	SUNY, Stony Brook
Chang, Hyeong Soo	Sogang Univ.

FrA04	Room 204
Model/Controller Reduction I (Regular Session)	
Chair: Motee, Nader	Caltech
Co-Chair: Sootla, Aivar	Lund Univ.
10:00-10:20	FrA04.1
Model Reduction by Moment Matching, Steady-State Response and Projections , pp. 5344-5349.	
Astolfi, Alessandro	Imperial Coll. & Univ. of Rome
10:20-10:40	FrA04.2
Extraction of 1-Dimensional Reaction-Diffusion Structure in SISO Linear Dynamical Networks , pp. 5350-5355.	
Ishizaki, Takayuki	Tokyo Inst. of Tech.
Kashima, Kenji	Tokyo Inst. of Tech.
Imura, Jun-ichi	Tokyo Inst. of Tech.
10:40-11:00	FrA04.3
LQG Balancing: Intertwining Balancing and Sign Iterations , pp. 5356-5361.	
Lageman, Christian	Univ. of Wuerzburg
Hueper, Knut	Univ. of Wuerzburg
Helmke, Uwe R.	Univ. of Wuerzburg
Lang, Patrick	Fraunhofer ITWM
11:00-11:20	FrA04.4
Controller Reduction for Linear Systems Based on Subspace Balanced Realization , pp. 5362-5367.	
Fujimoto, Kenji	Nagoya Univ.
Ono, Sayaka	Nagoya Univ.
Hayakawa, Yoshikazu	Nagoya Univ.
11:20-11:40	FrA04.5
H2 Optimal Model Reduction of Linear Dynamical Systems , pp. 5368-5371.	
Ahmad, Mian Ilyas	Imperial Coll. London
Jaimoukha, Imad M.	Imperial Coll. London
Frangos, Michalis	Massachusetts Inst. of Tech.
11:40-12:00	FrA04.6
Hankel-Type Model Reduction Based on Frequency Response Matching , pp. 5372-5377.	
Sootla, Aivar	Lund Univ.

FrA05	Room 205
Nonlinear Systems III (Regular Session)	
Chair: Kellett, Christopher	Univ. of Newcastle
Co-Chair: Pomet, Jean-Baptiste	INRIA
10:00-10:20	FrA05.1
Multi-Input Control Systems: Explicit Feedback Linearization , pp. 5378-5383.	
Tall, Issa Amadou	Southern Illinois Univ. Carbondale
10:20-10:40	FrA05.2
Generalized Lax Pairs for the Computation of Semi-Invariants , pp. 5384-5389.	
Menini, Laura	Univ. di Roma 'Tor Vergata'
Tornambe, Antonio	Univ. Di Roma Tor Vergata
10:40-11:00	FrA05.3
Transfer Operator Approach for Computing Domain of Attraction , pp. 5390-5395.	
Wang, Kai	Iowa State Univ.
Vaidya, Umesh	Iowa State Univ.
11:00-11:20	FrA05.4
A Framework for Nonlinear Output Regulation for Time-Varying Uncertain Systems , pp. 5396-5401.	
Yang, Xi	The Chinese Univ. of Hong Kong
Huang, Jie	The Chinese Univ. of Hong Kong
11:20-11:40	FrA05.5
An Explicit Desingularization Procedure for General Nonholonomic Systems , pp. 5402-5407.	
Chitour, Yacine	Univ. Paris-Sud, CNRS, Supelec
Jean, Frederic	Ec. Nat. Sup. des Tech. Avancees
Long, Ruixing	Ec. Pol.
11:40-12:00	FrA05.6
Exact Linearization by Time Scale Transformation Based on Relative Degree Structure of Single-Input Nonlinear Systems , pp. 5408-5413.	
Saito, Akio	Mitsubishi Electric Corp.

FrA06

Room 206

Geometric Control on Nonlinear Manifolds (Invited Session)

- Chair: Lee, Taeyoung
Co-Chair: Sanyal, Amit
Organizer: Lee, Taeyoung
Organizer: Sanyal, Amit
Florida Inst. of Tech.
Univ. of Hawaii at Manoa
Florida Inst. of Tech.
New Mexico State Univ.
- 10:00-10:20
A Lie Group Variational Integrator for Rigid Body Motion in SE(3) with Applications to Underwater Vehicle Dynamics (I), pp. 5414-5419.
FrA06.1
Nordkvist, Nikolaj
Sanyal, Amit
Univ. of Hawaii at Manoa
Univ. of Hawaii at Manoa
- 10:20-10:40
Geometric Tracking Control of a Quadrotor UAV on SE(3) (I), pp. 5420-5425.
FrA06.2
Lee, Taeyoung
Leok, Melvin
McClamroch, N. Harris
Florida Inst. of Tech.
Univ. of California, San Diego
Univ. of Michigan
- 10:40-11:00
A Geometric Approach to Discrete Mechanics for Optimal Control Theory (I), pp. 5426-5431.
FrA06.3
Martin de Diego, David
High Council for Scientific Res.
- 11:00-11:20
Extremal Collective Behavior (I), pp. 5432-5437.
FrA06.4
Justh, Eric
Krishnaprasad, P. S.
Naval Res. Lab.
Univ. of Maryland
- 11:20-11:40
Discrete Hamilton-Jacobi Theory and Discrete Optimal Control (I), pp. 5438-5443.
FrA06.5
Ohsawa, Tomoki
Bloch, Anthony M.
Leok, Melvin
Univ. of California, San Diego
Univ. of Michigan
Univ. of California, San Diego
- 11:40-12:00
Singular Constant Control Trajectories and Transition Degeneracies in a Closed 4-Level Quantum System, pp. 5444-5449.
FrA06.6
Belhadji, Mohamed
Grigoriu Lachapelle, Andreea
Turinici, Gabriel
Inst. Supérieur des Mathématiques Appliquées et d'informatiqu
Univ. Paris Dauphine
Univ. Paris Dauphine

FrA07

Room 207

Cooperative Control III (Regular Session)

- Chair: Freeman, Randy
Co-Chair: Werner, Herbert
Northwestern Univ.
Hamburg Univ. of Tech.
- 10:00-10:20
A Distributed Joint-Learning and Auction Algorithm for Target Assignment, pp. 5450-5455.
FrA07.1
Sadikhov, Teymur
Zhu, Minghui
Martinez, Sonia
Georgia Inst. of Tech.
Univ. of California, San Diego
Univ. of California at San Diego
- 10:20-10:40
A Distributed Reconfigurable Control Law for Escorting and Patrolling Missions Using Teams of Unicycles, pp. 5456-5461.
FrA07.2
Lan, Ying
Lin, Zhiyun
Cao, Ming
Yan, Gangfeng
Zhejiang Univ.
Zhejiang Univ.
Univ. of Groningen
Zhejiang Univ.
- 10:40-11:00
On the Internal Dynamics of Formations of Unicycle Robots, pp. 5462-5467.
FrA07.3
Consolini, Luca
Morbidi, Fabio
Prattichizzo, Domenico
Tosques, Mario
Univ. of Parma
Univ. of Siena
Univ. of Siena
Univ. of Parma
- 11:00-11:20
Backstepping Control Design for Motion Coordination of Self-Propelled Vehicles, pp. 5468-5473.
FrA07.4
Mellish, Rochelle
Paley, Derek A.
Univ. of Maryland
Univ. of Maryland
- 11:20-11:40
Consensus of a Group of Second Order Agents with Switching Irregular Communication Topologies and Time-Delay, pp. 5474-5479.
FrA07.5
Cepeda-Gomez, Rudy
Olgac, Nejat
The Univ. of Connecticut
Univ. of Connecticut
- 11:40-12:00
Synchronized Tracking Control of Multi-Agent System with Limited Information, pp. 5480-5485.
FrA07.6
Cui, Rongxin
Ge, Shuzhi Sam
Ren, Beibei
Northwestern Pol. Univ.
National Univ. of Singapore
National Univ. of Singapore

FrA08		Room 208
The Control Theory of Robot-Assisted Exploration of Scalar Potential Fields (Invited Session)		
Chair: Baronov, Dimitar		Boston Univ.
Co-Chair: Baillieul, John		Boston Univ.
Organizer: Baronov, Dimitar		Boston Univ.
Organizer: Baillieul, John		Boston Univ.
10:00-10:20		FrA08.1
<i>Sensor-Based Robot Deployment Algorithms (I)</i> , pp. 5486-5492.		
Le Ny, Jerome		Univ. of Pennsylvania
Pappas, George J.		Univ. of Pennsylvania
10:20-10:40		FrA08.2
<i>A Switching Strategy for Robust Cooperative Exploration (I)</i> , pp. 5493-5498.		
Wu, Wencen		Georgia Inst. of Tech.
Zhang, Fumin		Georgia Inst. of Tech.
10:40-11:00		FrA08.3
<i>Generalized Multicircumcenter Trajectories for Optimal Design under Near-Independence (I)</i> , pp. 5499-5504.		
Graham, Rishi		Univ. of California at Santa Cruz
Cortes, Jorge		Univ. of California, San Diego
11:00-11:20		FrA08.4
<i>Multi-Agent Deployment in the Plane Using Stochastic Extremum Seeking (I)</i> , pp. 5505-5510.		
Ghods, Nima		Univ. of California, San Diego
Frihauf, Paul		Univ. of California, San Diego
Krstic, Miroslav		Univ. of California at San Diego
11:20-11:40		FrA08.5
<i>Topology Guided Search of Potential Fields (I)</i> , pp. 5511-5517.		
Baronov, Dimitar		Boston Univ.
Baillieul, John		Boston Univ.
11:40-12:00		FrA08.6
<i>Nonuniform Coverage and Cartograms</i> , pp. 5518-5523.		
Lekien, Francois		Univ. Libre de Bruxelles
Leonard, Naomi Ehrlich		Princeton Univ.
FrA09		Room 209
Identification for Control (Regular Session)		
Chair: Del Re, Luigi		Johannes Kepler Univ. Linz
Co-Chair: Hjalmarsson, Håkan		Royal Inst. of Tech.
10:00-10:20		FrA09.1
<i>Estimating State-Space Models in Innovations Form Using the Expectation Maximisation Algorithm</i> , pp. 5524-5529.		
Wills, Adrian		Univ. of Newcastle
Schon, Thomas (Bo)		Linköping Univ.
Ninness, Brett		Univ. of Newcastle
10:20-10:40		FrA09.2
<i>Identification and Visualization of Robust-Control-Relevant Model Sets with Application to an Industrial Wafer Stage</i> , pp. 5530-5535.		
Oomen, Tom		Eindhoven Univ. of Tech.
Quist, Sander		Eindhoven Univ. of Tech.
van Herpen, Robbert		Eindhoven Univ. of Tech.
Bosgra, Okko H.		Eindhoven Univ. of Tech.
10:40-11:00		FrA09.3
<i>Dynamic Neural Network-Based Robust Identification and Control of a Class of Nonlinear Systems</i> , pp. 5536-5541.		
Dinh, Huyen T.		Univ. of Florida
Bhasin, Shubhendu		Univ. of Florida
Dixon, Warren E.		Univ. of Florida
11:00-11:20		FrA09.4
<i>Virtual Reference Feedback Tuning of Internal Model Controllers</i> , pp. 5542-5547.		
Formentin, Simone		Pol. di Milano
Corno, Matteo		Delft Univ. of Tech.
Savaresi, Sergio M.		Pol. Di Milano
Del Re, Luigi		Johannes Kepler Univ. Linz
11:20-11:40		FrA09.5
<i>On Optimal Input Design in System Identification for Control</i> , pp. 5548-5553.		
Wahlberg, Bo		Royal Inst. of Tech.
Hjalmarsson, Håkan		Royal Inst. of Tech.
Annergren, Mariette Jenny Erika		The Royal Inst. of Tech. Stockholm
11:40-12:00		FrA09.6
<i>On the Experimental Protocol in Virtual Reference Feedback Tuning</i> , pp. 5554-5559.		
Formentin, Simone		Pol. di Milano
Savaresi, Sergio M.		Pol. Di Milano
Hirsch, Markus		Johannes Kepler Univ.
Del Re, Luigi		Johannes Kepler Univ. Linz

FrA10	Room 210
Automotive Control I (Regular Session)	
Chair: Tomas-Rodriguez, Maria	City Univ. London
Co-Chair: Book, Wayne J.	Georgia Inst. of Tech.
10:00-10:20	FrA10.1
<i>An LPV Control Approach for Comfort and Suspension Travel Improvements of Semi-Active Suspension Systems</i> , pp. 5560-5565.	
Do, Anh Lam	Grenoble INP
Spelta, Cristiano	Univ. degli studi di Bergamo
Savaresi, Sergio M.	Pol. Di Milano
Sename, Olivier	Grenoble Inst. of Tech.
Dugard, Luc	CNRS-Grenoble INP
Delvecchio, Diego	Pol. di Milano
10:20-10:40	FrA10.2
<i>Accelerometer-Based Estimation of the Elongation Speed in a Motorcycle Suspension Via Kalman-Filter Techniques</i> , pp. 5566-5571.	
Delvecchio, Diego	Pol. di Milano
Spelta, Cristiano	Univ. degli studi di Bergamo
Perico, Gabriele	Pol. di Milano
Savaresi, Sergio M.	Pol. Di Milano
10:40-11:00	FrA10.3
<i>Modified Optimal Control of a Nonlinear Active Suspension System</i> , pp. 5572-5577.	
Kloiber, Tobias	Tech. Univ. München
Koch, Guido	Tech. Univ. München
Lohmann, Boris	Tech. Univ. München
11:00-11:20	FrA10.4
<i>Suppression of Burst Oscillations in Racing Motorcycles</i> , pp. 5578-5585.	
Evangelou, Simos Andreas	Imperial Coll.
Limebeer, David John	Imperial Coll.
Tomas-Rodriguez, Maria	City Univ. London
11:20-11:40	FrA10.5
<i>A Virtual Rider for Two-Wheeled Vehicles</i> , pp. 5586-5591.	
Massaro, Matteo	Univ. of Padova
Lot, Roberto	Univ. degli Studi di Padova
11:40-12:00	FrA10.6
<i>Nonlinear and Filter Based Estimation for Vehicle Suspension Control</i> , pp. 5592-5597.	
Koch, Guido	Tech. Univ. München
Kloiber, Tobias	Tech. Univ. München
Lohmann, Boris	Tech. Univ. München

FrA11	Room 211
Mobile Sensor Networks and Cooperative Control (Invited Session)	
Chair: Paschalidis, Ioannis	Boston Univ.
Co-Chair: Cassandras, Christos G.	Boston Univ.
Organizer: Paschalidis, Ioannis	Boston Univ.
Organizer: Cassandras, Christos G.	Boston Univ.
10:00-10:20	FrA11.1
<i>Distributed Seeking of Nash Equilibria in Mobile Sensor Networks (I)</i> , pp. 5598-5603.	
Stankovic, Milos S.	Royal Inst. of Tech.
Johansson, Karl H.	Royal Inst. of Tech.
Stipanovic, Dusan M.	Univ. of Illinois, Urbana-Champaign
10:20-10:40	FrA11.2
<i>Distributed Coverage Control and Data Collection with Mobile Sensor Networks (I)</i> , pp. 5604-5609.	
Zhong, Minyi	Boston Univ.
Cassandras, Christos G.	Boston Univ.
10:40-11:00	FrA11.3
<i>The Capacity of Sparse Ad Hoc Networks under Controlled Mobility (I)</i> , pp. 5610-5615.	
Paschalidis, Ioannis	Boston Univ.
Moazzez Estanjini, Reza	Boston Univ.
11:00-11:20	FrA11.4
<i>Secure Network-Wide Clock Synchronization in Wireless Sensor Networks (I)</i> , pp. 5616-5621.	
Solis Robles, Roberto	Univ. of Illinois, Urbana-Champaign
Haas, Jason	Univ. of Illinois at Urbana-Champaign
Chiang, Jerry T	Univ. of Illinois at Urbana-Champaign
Hu, Yih-Chun	Univ. of Illinois at Urbana-Champaign
Kumar, P. R.	Univ. of Illinois, Urbana-Champaign
11:20-11:40	FrA11.5
<i>Fundamental Performance Limits and Efficient Policies for Transportation-On-Demand Systems (I)</i> , pp. 5622-5629.	
Pavone, Marco	Massachusetts Inst. of Tech.
Treleaven, Kyle	Massachusetts Inst. of Tech.
Frazzoli, Emilio	Massachusetts Inst. of Tech.
11:40-12:00	FrA11.6
<i>Queue-Aware Distributive Resource Control for Delay-Sensitive Two-Hop MIMO Cooperative Systems</i> , pp. 5630-5635.	

Wang, Rui
Lau, Vincent K. N.
Cui, Ying

The Hong Kong Univ. of Science and Tech.
The Hong Kong Univ. of Science and Tech.
The Hong Kong Univ. of Science and Tech.

FrA12

Room 212

Switched Systems IV (Regular Session)

- Chair: Camlibel, Kanat Univ. of Groningen
Co-Chair: Trenn, Stephan Univ. of Illinois, Urbana-Champaign
- 10:00-10:20 FrA12.1
Observability of Switched Linear Systems: A Geometric Approach, pp. 5636-5642.
Gomez-Gutierrez, David CINESTAV Guadalajara
Ramirez, Antonio CINESTAV-IPN
Ruiz-Leon, Javier CINESTAV-Guadalajara
Di Gennaro, Stefano Univ. of L'Aquila
- 10:20-10:40 FrA12.2
New Results in Stable Switching Congestion Control for Satellite TCP/AQM Networks, pp. 5643-5648.
Cao, Jinhua Univ. of Wyoming
Stefanovic, Margareta Univ. of Wyoming
- 10:40-11:00 FrA12.3
Stability Analysis of Switched Time-Delay Systems with Polytopic Uncertainties, pp. 5649-5655.
Moezzi, Kaveh Concordia Univ.
Aghdam, Amir G. Concordia Univ.
- 11:00-11:20 FrA12.4
On Observability of Switched Differential-Algebraic Equations, pp. 5656-5661.
Tanwani, Aneel Univ. of Illinois, Urbana-Champaign
Trenn, Stephan Univ. of Würzburg
- 11:20-11:40 FrA12.5
Detection of Impulsive Effects in Switched DAEs with Applications to Power Electronics Reliability Analysis, pp. 5662-5667.
Dominguez-Garcia, Alejandro Univ. of Illinois at Urbana-Champaign
Trenn, Stephan Univ. of Würzburg
- 11:40-12:00 FrA12.6
Existence of Common Lyapunov Functions for Infinite-Dimensional Switched Linear Systems, pp. 5668-5673.
Hante, Falk CORIDA, INRIA Nancy - Grand Est
Sigalotti, Mario INRIA Nancy - Grand Est

FrA13

Room 213

Filtering and Estimation III (Regular Session)

- Chair: Barbot, Jean Pierre ENSEA
Co-Chair: Salapaka, Murti V. Univ. of Minnesota, Minneapolis
- 10:00-10:20 FrA13.1
A Moments-Based Approach to Estimation and Data Interpolation for a Class of Wiener Systems, pp. 5674-5680.
Ayazoglu, Mustafa Northeastern Univ.
Sznajder, Mario Northeastern Univ.
Lagoa, Constantino M. Pennsylvania State Univ.
Camps, Octavia I. Northeastern Univ.
- 10:20-10:40 FrA13.2
Advances in Moving Horizon Estimation for Nonlinear Systems, pp. 5681-5688.
Alessandri, Angelo Univ. of Genoa
Baglietto, Marco Univ. of Genoa
Battistelli, Giorgio Univ. of Firenze
Zavala, Victor Argonne National Lab.
- 10:40-11:00 FrA13.3
State Estimation of Two-Time Scale Multiple Models with Unmeasurable Premise Variables. Application to Biological Reactors, pp. 5689-5694.
Nagy Kiss, Anca Maria Inst. National Pol. de Lorraine (INPL)
Marx, Benoit Ctr de Recherche en Automat. de Nancy
Mourot, Gilles Inst. National Pol. De Lorraine
Georges, Schutz Centre de recherche public Henri Tudor
Ragot, Jose CRAN-INPL
- 11:00-11:20 FrA13.4
Convex Enclosures for the Reachable Sets of Nonlinear Parametric Ordinary Differential Equations, pp. 5695-5700.
Scott, Joseph Massachusetts Inst. of Tech.
Barton, Paul MIT
- 11:20-11:40 FrA13.5
Nonlinear Bayesian Estimation with Compactly Supported Wavelets, pp. 5701-5706.
Hekler, Achim Karlsruhe Inst. of Tech.
Kiefel, Martin KIT Karlsruher Inst. für Tech.
Hanebeck, Uwe D. Karlsruhe Inst. of Tech.
- 11:40-12:00 FrA13.6
*Detection of Steps in Noisy Biological Systems with Dynamics Compensation**.
Aggarwal, Tanuj Univ. of Minnesota

FrA14 Room 214

Large-Scale Systems (Regular Session)

Chair: Hara, Shinji	The Univ. of Tokyo
Co-Chair: Hirche, Sandra	Tech. Univ. München
10:00-10:20	FrA14.1
<i>Performance-Oriented Communication Topology Design for Large-Scale Interconnected Systems</i> , pp. 5707-5713.	
Gusrialdi, Azwirman	Tech. Univ. of Munich
Hirche, Sandra	Tech. Univ. München
10:20-10:40	FrA14.2
<i>A Resistance-Based Approach to Consensus Algorithm Performance Analysis</i> , pp. 5714-5719.	
Lovisari, Enrico	Univ. of Padova
Garin, Federica	INRIA
Zampieri, Sandro	Univ. di Padova
10:40-11:00	FrA14.3
<i>Design of Distributed H-Infinity Consensus Filters for Uncertain Systems Via Dissipativity Theory</i> , pp. 5720-5725.	
Ugrinovskii, Valery	Univ. of New South Wales
Langbort, Cedric	Univ. of Illinois, Urbana-Champaign
11:00-11:20	FrA14.4
<i>Analysis and Control of Large Scale Networks, the Davis-Wielandt Shell and Graph Separation</i> , pp. 5726-5731.	
Lestas, Ioannis	Univ. of Cambridge,
11:20-11:40	FrA14.5
<i>Quasi-ISS/ISDS Reduced-Order Observers and Quantized Output Feedback for Interconnected Systems</i> , pp. 5732-5737.	
Dashkovskiy, Sergey	Univ. of Bremen
Naujok, Lars	Univ. of Bremen
11:40-12:00	FrA14.6
<i>D-Stability and Robust Stability Conditions for LTI Systems with Generalized Frequency Variables</i> , pp. 5738-5743.	
Hara, Shinji	The Univ. of Tokyo
Tanaka, Hideaki	The Univ. of Tokyo

FrA15 Room 301

Agents and Autonomous Systems IV (Regular Session)

Chair: Sepulchre, Rodolphe J.	Univ. de Liege
Co-Chair: Shamma, Jeff S.	Georgia Inst. of Tech.
10:00-10:20	FrA15.1
<i>On the Optimal Localized Feedback Design for Multi-Vehicle Systems</i> , pp. 5744-5749.	
Lin, Fu	Univ. of Minnesota
Fardad, Makan	Syracuse Univ.
Jovanovic, Mihailo	Univ. of Minnesota
10:20-10:40	FrA15.2
<i>Ergodicity of Flocking Systems for Infinite-Dimensional Multi-Agent Coordination</i> , pp. 5750-5755.	
Hui, Qing	Texas Tech. Univ.
Zhang, Haopeng	Texas Tech. Univ.
10:40-11:00	FrA15.3
<i>Aspiration Learning in Coordination Games</i> , pp. 5756-5761.	
Chasparis, Georgios C.	Georgia Inst. of Tech.
Shamma, Jeff S.	Georgia Inst. of Tech.
Arapostathis, Ari	The Univ. of Texas at Austin
11:00-11:20	FrA15.4
<i>Adaptive Fuzzy Control of Switched Objective Functions in Pursuit-Evasion Scenarios</i> , pp. 5762-5767.	
Goode, Brian	Virginia Tech.
Kurdila, Andrew J.	Virginia Tech.
Roan, Michael	Virginia Tech.
11:20-11:40	FrA15.5
<i>Control of Hybrid Automata with Hidden Modes: Translation to a Perfect State Information Problem</i> , pp. 5768-5774.	
Verma, Rajeev	Univ. of Michigan, Ann Arbor
Del Vecchio, Domitilla	Massachusetts Insitute of Tech.
11:40-12:00	FrA15.6
<i>Observability and Controllability Verification in Multi-Agent Systems through Decentralized Laplacian Spectrum Estimation</i> , pp. 5775-5780.	
Franceschelli, Mauro	Univ. of Cagliari
Martini, Simone	Univ. di Pisa
Egerstedt, Magnus	Georgia Inst. of Tech.
Bicchi, Antonio	Univ. di Pisa
Giua, Alessandro	Univ. di Cagliari

FrA16 Room 302

Dynamic Models of Complex Network Systems (Invited Session)

Chair: Martin, Clyde F.	Texas Tech. Univ.
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Co-Chair: Chakraborty, Aranya	Texas Tech. Univ.
Organizer: Martin, Clyde F.	Texas Tech. Univ.
Organizer: Chakraborty, Aranya	North Carolina State Univ.
Organizer: Ghosh, Bijoy	Texas Tech. Univ.
10:00-10:20	FrA16.1
<i>From Biological Pathways to Regulatory Networks (I)</i> , pp. 5781-5786.	
Layek, Ritwik	Texas A&M Univ.
Datta, Aniruddha	Texas A&M Univ.
Dougherty, Edward	Texas A&M Univ.
10:20-10:40	FrA16.2
<i>Deterministic Gossiping with a Periodic Protocol (I)</i> , pp. 5787-5791.	
Mou, Shaoshuai	Yale Univ.
Yu, CHANGBIN (Brad)	The Australian National Univ.
Anderson, Brian D.O.	Australian National Univ.
Morse, A. Stephen	Yale Univ.
10:40-11:00	FrA16.3
<i>Electrical Centrality Measures for Electric Power Grid Vulnerability Analysis (I)</i> , pp. 5792-5797.	
Wang, Zhifang	Univ. of Illinois at Urbana-Champaign
Scaglione, Anna	UC Davis
Thomas, Robert	Cornell Univ.
11:00-11:20	FrA16.4
<i>Oscillation Pattern Analysis for Gene Regulatory Networks with Negative Cyclic Feedback (I)</i> , pp. 5798-5803.	
Hori, Yutaka	The Univ. of Tokyo
Hara, Shinji	The Univ. of Tokyo
11:20-11:40	FrA16.5
<i>Optimal Sensor Placement for Parametric Model Identification of Electrical Networks, Part I: Open Loop Estimation (I)</i> , pp. 5804-5809.	
Chakraborty, Aranya	North Carolina State Univ.
Martin, Clyde F.	Texas Tech. Univ.
11:40-12:00	FrA16.6
<i>Optimal Sensor Placement for Parametric Model Identification of Electrical Networks, Part II: Estimation under Output Feedback</i> , pp. 5810-5815.	
Chakraborty, Aranya	North Carolina State Univ.
Martin, Clyde F.	Texas Tech. Univ.

FrA17

Room 303

Optimal Control II (Regular Session)

Chair: Cheng, Daizhan	Chinese Acad. of Sciences
Co-Chair: Goebel, Rafal	Loyola Univ. Chicago
10:00-10:20	FrA17.1
<i>Necessary Conditions for Singular Arcs for General Restricted Multi-Body Problem</i> , pp. 5816-5821.	
Park, Chandeeok	Naval Postgraduate School
Ross, I. Michael	Naval Postgraduate School
Gong, Qi	Univ. of California, Santa Cruz
Yan, Hui	Univ. of California at Santa Cruz
10:20-10:40	FrA17.2
<i>Strategy Optimization with Its Application to Dynamic Games</i> , pp. 5822-5827.	
Cheng, Daizhan	Chinese Acad. of Sciences
Zhao, Yin	Acad. of Mathematics and Systems Science, CAS
Mu, Yifen	Chinese Acad. of Sciences
10:40-11:00	FrA17.3
<i>Minimum Time Control of Autonomous Underwater Vehicles</i> , pp. 5828-5834.	
Rhoads, Blane	Univ. of California, Santa Barbara
Mezic, Igor	Univ. of California, Santa Barbara
Poje, A. C	City Univ. of New York, Coll. of Staten Island
11:00-11:20	FrA17.4
<i>Improved Patchy Solution to the Hamilton-Jacobi-Bellman Equations</i> , pp. 5835-5839.	
Hunt, Thomas	Univ. of California- Davis
Krener, Arthur J	Naval Postgraduate School
11:20-11:40	FrA17.5
<i>Properties of the Optimal Value Function for the Linear-Quadratic Regulator with Conical Control Constraints</i> , pp. 5840-5844.	
Goebel, Rafal	Loyola Univ. Chicago
11:40-12:00	FrA17.6
<i>Well Rate Control Design for Gas Coning Problems</i> , pp. 5845-5850.	
Hasan, Agus	Norwegian Univ. of Science and Tech.
Sagatun, Svein I	Norsk Hydro
Foss, Bjarne A.	Norwegian Univ. of Science & Tech.

FrA18

Room 304

Networked Control Systems II (Regular Session)

Chair: Martini, Simone	Univ. di Pisa
Co-Chair: Dormido, Sebastián	UNED

10:00-10:20		FrA18.1
<i>Networked LQG Control Over Unreliable Channels</i> , pp. 5851-5856.		
Moayedi, Maryam	Nanyang Tech. Univ.	
Foo, Yung Kuan	Organization	
Soh, Yeng Chai	Nanyang Tech. Univ.	
10:20-10:40		FrA18.2
<i>Consensus Protocols for Multi-Agent Systems with Delays and Noises in Transmission Channels</i> , pp. 5857-5862.		
Liu, Shuai	Nanyang Tech. Univ.	
Xie, Lihua	Nanyang Tech. Univ.	
Zhang, Huanshui	Shandong Univ.	
10:40-11:00		FrA18.3
<i>A Packet-Based Network Control System Architecture for Teleoperation and Remote Laboratories</i> , pp. 5863-5868.		
Guinaldo, Maria	UNED	
Sánchez Moreno, José	UNED	
Dormido, Sebastián	UNED	
11:00-11:20		FrA18.4
<i>Controllability of Homogeneous Single-Leader Networks</i> , pp. 5869-5874.		
Twu, Philip	Georgia Inst. of Tech.	
Egerstedt, Magnus	Georgia Inst. of Tech.	
Martini, Simone	Univ. di Pisa	
11:20-11:40		FrA18.5
<i>Packet Dropout Separation-Based Networked Control Systems Quantitative Synthesis</i> , pp. 5875-5880.		
Wang, Yu-Long	Central Queensland Univ.	
Han, Qing-Long	Central Queensland Univ.	
Yu, Xinghuo	RMIT Univ.	
11:40-12:00		FrA18.6
<i>Statistical Properties of the Error Covariance in a Kalman Filter with Random Measurement Losses</i> , pp. 5881-5886.		
Rohr, Eduardo Rath	Univ. of Newcastle	
Marelli, Damian	Univ. of Newcastle	
Fu, Minyue	Univ. of Newcastle	

FrA19

Room 305

Formal Methods in Systems and Control (Invited Session)

Chair: Girard, Antoine	Univ. Joseph Fourier	
Co-Chair: Abate, Alessandro	TU Delft	
Organizer: Girard, Antoine	Univ. Joseph Fourier	
Organizer: Abate, Alessandro	TU Delft	
10:00-10:20		FrA19.1
<i>Using Computer Games for Hybrid Systems Controller Synthesis (I)</i> , pp. 5887-5892.		
Julius, Agung	Rensselaer Pol. Inst.	
Afshari, Sina	Rensselaer Pol. Inst.	
10:20-10:40		FrA19.2
<i>Synthesis Using Approximately Bisimilar Abstractions: Time-Optimal Control Problems (I)</i> , pp. 5893-5898.		
Girard, Antoine	Univ. Joseph Fourier	
10:40-11:00		FrA19.3
<i>Formal Analysis of Piecewise Affine Systems through Formula-Guided Refinement (I)</i> , pp. 5899-5904.		
Yordanov, Boyan	Boston Univ.	
Tumova, Jana	Masaryk Univ.	
Belta, Calin	Boston Univ.	
Cerna, Ivana	Masaryk Univ.	
Barnat, Jiri	Masaryk Univ.	
11:00-11:20		FrA19.4
<i>Multiresolution Discrete Abstraction for Optimal Control (I)</i> , pp. 5905-5910.		
Tazaki, Yuichi	Nagoya Univ.	
Imura, Jun-ichi	Tokyo Inst. of Tech.	
11:20-11:40		FrA19.5
<i>Abstraction Based Solution of Complex Attainability Problems for Decomposable Continuous Plants (I)</i> , pp. 5911-5917.		
Reissig, Gunther	Uni Kassel	
11:40-12:00		FrA19.6
<i>Probabilistic Bisimulations of Switching and Resetting Diffusions (I)</i> , pp. 5918-5923.		
Abate, Alessandro	TU Delft	

FrA20

Room 306

Lyapunov Methods (Regular Session)

Chair: Praly, Laurent	Mines Paris-Tech.	
Co-Chair: Lazar, Mircea	Eindhoven Univ. of Tech.	
10:00-10:20		FrA20.1
<i>Multilayer Minimum Projection Method with Singular Point Assignment for Nonsmooth Control Lyapunov Function Design</i> , pp. 5924-5929.		
Nakamura, Hisakazu	Nara Inst. of Science &Tech.	
Fukui, Yoshiro	Nara Inst. of Science and Tech.	

Nakamura, Nami Nishitani, Hirokazu	Nara Inst. of Sci. & Tech. Nara Inst. of Sci. & Tech.
10:20-10:40 <i>Local Dissipative Hamiltonian Realization by Feedback Regulation</i> , pp. 5930-5935. Hudon, Nicolas Guay, Martin	FrA20.2 The Univ. of New South Wales Queen's Univ.
10:40-11:00 <i>On Infinity Norms As Lyapunov Functions: Alternative Necessary and Sufficient Conditions</i> , pp. 5936-5942. Lazar, Mircea	FrA20.3 Eindhoven Univ. of Tech.
11:00-11:20 <i>Parametrization of All Stabilizing Compensators for Absorbable Nonlinear Systems</i> , pp. 5943-5948. Blanchini, Franco Casagrande, Daniele Miani, Stefano	FrA20.4 Univ. degli Studi di Udine Univ. of Udine Univ. degli Studi di Udine
11:20-11:40 <i>A Converse Sum-Of-Squares Lyapunov Result: An Existence Proof Based on the Picard Iteration</i> , pp. 5949-5954. Peet, Matthew M. Papachristodoulou, Antonis	FrA20.5 Illinois Inst. of Tech. Univ. of Oxford
11:40-12:00 <i>Integrator Forwarding Via Dynamic Scaling</i> , pp. 5955-5960. Praly, Laurent Carnevale, Daniele Astolfi, Alessandro	FrA20.6 MINES ParisTech Univ. di Roma Imperial Coll. & Univ. of Rome

FrA21 Room 307

Analysis and Design of Secure Control Systems (Invited Session)

Chair: Sinopoli, Bruno Co-Chair: Bullo, Francesco Organizer: Sinopoli, Bruno Organizer: Bullo, Francesco	Carnegie Mellon Univ. Univ. California at Santa Barbara Carnegie Mellon Univ. Univ. California at Santa Barbara
10:00-10:20 <i>Identifying Cyber Attacks Via Local Model Information (I)</i> , pp. 5961-5966. Pasqualetti, Fabio Carli, Ruggero Bicchi, Antonio Bullo, Francesco	FrA21.1 Univ. of California, Santa Barbara Univ. of Padova Univ. di Pisa Univ. California at Santa Barbara
10:20-10:40 <i>False Data Injection Attacks against State Estimation in Wireless Sensor Networks (I)</i> , pp. 5967-5972. Mo, Yilin Garone, Emanuele Casavola, Alessandro Sinopoli, Bruno	FrA21.2 Carnegie Mellon Univ. Univ. della Calabria Univ. Della Calabria Carnegie Mellon Univ.
10:40-11:00 <i>A Robust Policy for Automatic Generation Control Cyber Attack in Two Area Power Network (I)</i> , pp. 5973-5978. Mohajerin Esfahani, Peyman Vrakopoulou, Maria Margellos, Kostas Lygeros, John Andersson, Goran	FrA21.3 Swiss Federal Inst. of Tech. Zurich (ETHZ) ETH Zurich ETH Zurich ETH Zurich Swiss Federal Inst. of Tech.
11:00-11:20 <i>The Wireless Control Network: Monitoring for Malicious Behavior (I)</i> , pp. 5979-5984. Sundaram, Shreyas Pajic, Miroslav Hadjicostis, Christoforos Mangharam, Rahul Pappas, George J.	FrA21.4 Univ. of Waterloo Univ. of Pennsylvania Univ. of Cyprus Univ. of Pennsylvania Univ. of Pennsylvania
11:20-11:40 <i>Toward a Deeper Use of Feedback Control in the Design of Critical Computing System Components</i> , pp. 5985-5990. Maggio, Martina Leva, Alberto	FrA21.5 Pol. di Milano Pol. di Milano
11:40-12:00 <i>Cyber Security Analysis of State Estimators in Electric Power Systems (I)</i> , pp. 5991-5998. Teixeira, André Amin, Saurabh Sandberg, Henrik Johansson, Karl H. Sastry, Shankar	FrA21.6 KTH - Royal Inst. of Tech. Univ. of California, Berkeley Royal Inst. of Tech. (KTH) Royal Inst. of Tech. Univ. of California at Berkeley

FrA22 Room 308

Linear Systems II (Regular Session)

Chair: Mirkin, Leonid	Tech.
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Co-Chair: Lawrence, Douglas A.	Ohio Univ.
10:00-10:20	FrA22.1
<i>Asymptotic Achievability for Linear Time Invariant State Space Systems</i> , pp. 5999-6003.	
Vinjamoor, Harsh	Univ. of Groningen
van der Schaft, Arjan J.	Univ. of Groningen
10:20-10:40	FrA22.2
<i>Preview in H2 Optimal Control: Experimental Case Studies</i> , pp. 6004-6009.	
Kristalny, Maxim	Tech.
Mirkin, Leonid	Tech.
10:40-11:00	FrA22.3
<i>Representing Structure in Linear Interconnected Dynamical Systems</i> , pp. 6010-6015.	
Yeung, Enoch	Brigham Young Univ.
Goncalves, Jorge M.	Univ. of Cambridge
Sandberg, Henrik	Royal Inst. of Tech. (KTH)
Warnick, Sean	Brigham Young Univ.
11:00-11:20	FrA22.4
<i>Extended H2 Output Feedback Control for Continuous Descriptor Systems</i> , pp. 6016-6021.	
Feng, Yu	IRCCyN/Ec. des Mines de Nantes
Yagoubi, Mohamed	Ec. des Mines de Nantes (IRCCyN)
Chevrel, Philippe	IRCCyN / Ec. des Mines de Nantes
11:20-11:40	FrA22.5
<i>Geometric Methods for Unknown-State, Unknown-Input Reconstruction in Discrete-Time Nonminimum-Phase Systems with Feedthrough Terms</i> , pp. 6022-6027.	
Marro, Giovanni	Univ. of Bologna
Bernstein, Dennis S.	Univ. of Michigan
Zattoni, Elena	Univ. of Bologna
11:40-12:00	FrA22.6
<i>Duality Properties of Linear Impulsive Systems</i> , pp. 6028-6033.	
Lawrence, Douglas A.	Ohio Univ.

FrA23 Grand Salon A
Modeling and Control of Bio Mechanical Systems (Invited Session)

Chair: Ghosh, Bijoy	Texas Tech. Univ.
Co-Chair: Levine, William S.	Univ. of Maryland
Organizer: Ghosh, Bijoy	Texas Tech. Univ.
10:00-10:20	FrA23.1
<i>Autonomous Locomotion of Multi-Link Mechanical Systems Via Natural Oscillation Pattern (I)</i> , pp. 6034-6039.	
Chen, Zhiyong	The Univ. of Newcastle
Zhu, Lijun	Univ. of Newcastle
Iwasaki, Tetsuya	UCLA
10:20-10:40	FrA23.2
<i>Geometric Foraging Strategies in Multi-Agent Systems Based on Biological Models (I)</i> , pp. 6040-6045.	
Haque, Musad	Georgia Inst. of Tech.
Rahmani, Amir	Georgia Inst. of Tech.
Egerstedt, Magnus	Georgia Inst. of Tech.
10:40-11:00	FrA23.3
<i>The Coordinated Regulation of Posture During Quiet Standing (I)</i> , pp. 6046-6051.	
Li, Yao	Univ. of Maryland at Coll. Park
Levine, William S.	Univ. of Maryland
11:00-11:20	FrA23.4
<i>Asymptotic Tracking of Periodic Solutions Using State Feedback Damping Control</i> , pp. 6052-6057.	
Hudon, Nicolas	The Univ. of New South Wales
Guay, Martin	Queen's Univ.
11:20-11:40	FrA23.5
<i>Circadian System Modeling and Phase Control</i> , pp. 6058-6063.	
Zhang, Jiaxiang	Rensselaer Pol. Inst.
Bierman, Andrew	Rensselaer Pol. Inst.
Wen, John T.	Rensselaer Pol. Inst.
Julius, Agung	Rensselaer Pol. Inst.
Figueiro, Mariana	Rensselaer Pol. Inst.
11:40-12:00	FrA23.6
<i>Analyzing Local Field Potentials in the Healthy Basal Ganglia under Deep Brain Stimulation</i> , pp. 6064-6068.	
Pedoto, Gilda	Univ. of Sannio
Santaniello, Sabato	Johns Hopkins Univ.
Montgomery Jr., Erwin B.	Univ. of Alabama at Birmingham
Gale, John T.	Massachusetts General Hospital/Harvard Medical School
Fiengo, Giovanni	Univ. degli Studi del Sannio
Giulmo, Luigi	Univ. of Sannio
Sarma, Sridevi	Johns Hopkins Univ.

Theory and Applications of Stochastic Model Predictive Control (Invited Session)

Chair: Bemporad, Alberto	Univ. of Trento
Co-Chair: Di Cairano, Stefano	Ford Motor Company
Organizer: Bemporad, Alberto	Univ. of Trento
Organizer: Di Cairano, Stefano	Ford Motor Company
13:30-13:50	FrB01.1
<i>Simultaneous Regulation of Thin Film Surface Mean Slope and Roughness for Light Trapping Optimization Using Predictive Control (I)</i> , pp. 6069-6076.	
Zhang, Xinyu	Univ. of California, Los Angeles
Hu, Gangshi	Univ. of California, Los Angeles
Orkoulas, Gerassimos	UCLA
Christofides, Panagiotis D.	Univ. of California at Los Angeles
13:50-14:10	FrB01.2
<i>Stochastic Model Predictive Control with Driver Behavior Learning for Improved Powertrain Control (I)</i> , pp. 6077-6082.	
Bichi, Marco	Univ. degli Studi di Siena
Ripaccioli, Giulio	Univ. degli Studi di Siena
Di Cairano, Stefano	Ford Motor Company
Bernardini, Daniele	Univ. of Siena
Bemporad, Alberto	Univ. of Trento
Kolmanovsky, Ilya V.	The Univ. of Michigan
14:10-14:30	FrB01.3
<i>A Computational Approach to Explicit Feedback Stochastic Nonlinear Model Predictive Control (I)</i> , pp. 6083-6088.	
Grancharova, Alexandra	Bulgarian Acad. of Sciences
Johansen, Tor Arne	Norwegian Univ. of Science & Tech.
14:30-14:50	FrB01.4
<i>Scenario-Based Stochastic Model Predictive Control for Dynamic Option Hedging (I)</i> , pp. 6089-6094.	
Bemporad, Alberto	Univ. of Trento
Gabbriellini, Tommaso	MPS Capital Services
Puglia, Laura	Univ. degli Studi di Trento
Bellucci, Leonardo	MPS Capital Services
14:50-15:10	FrB01.5
<i>Stochastic Receding Horizon Control with Output Feedback and Bounded Control Inputs (I)</i> , pp. 6095-6100.	
Hokayem, Peter	ETH Zurich
Cinquemani, Eugenio	INRIA Rhone-Alpes
Chatterjee, Debasish	ETH Zurich
Ramponi, Federico	ETH Zurich
Lygeros, John	ETH Zurich
15:10-15:30	FrB01.6
<i>Constrained Stochastic MPC under Multiplicative Noise for Financial Applications (I)</i> , pp. 6101-6106.	
Shin, Minyong	Stanford Univ.
Lee, Joo Hyung	Stanford Univ.
Primbs, James A.	Stanford Univ.

FrB02

Room 202

Nonlinear Predictive Control (Regular Session)

Chair: Zavala, Victor	Argonne National Lab.
Co-Chair: Dabney, James	Univ. of Houston - Clear Lake
13:30-13:50	FrB02.1
<i>Flood Control of Rivers with Nonlinear Model Predictive Control and Moving Horizon Estimation</i> , pp. 6107-6112.	
Breckpot, Maarten	Katholieke Univ. Leuven
Barjas Blanco, Toni	Katholieke Univ. Leuven
De Moor, Bart L.R.	Katholieke Univ. Leuven
13:50-14:10	FrB02.2
<i>Model-On-Demand Predictive Control for Nonlinear Hybrid Systems with Application to Adaptive Behavioral Interventions</i> , pp. 6113-6118.	
Nandola, Nareshkumar	Arizona State Univ.
Rivera, Daniel E.	Arizona State Univ.
14:10-14:30	FrB02.3
<i>Achieving Higher Frequencies in Large-Scale Nonlinear Model Predictive Control</i> , pp. 6119-6124.	
Zavala, Victor	Argonne National Lab.
Anitescu, Mihai	Argonne National Lab.
14:30-14:50	FrB02.4
<i>Reduced Precision Solution Criteria for Solving Optimal Control Problems in NMPC</i> , pp. 6125-6130.	
Wan, Jn	Zhejiang Univ.
Shao, Zhijiang	Zhejiang Univ.
14:50-15:10	FrB02.5
<i>Economic MPC for a Changing Economic Criterion</i> , pp. 6131-6136.	
Ferramosca, Antonio	Univ. of Seville
Rawlings, James B.	Univ. of Wisconsin-Madison
Limon, Daniel	Univ. de Sevilla
Camacho, Eduardo F.	Univ. of Sevilla
15:10-15:30	FrB02.6

Model Predictive Contouring Control, pp. 6137-6142.

Lam, Denise
Manzie, Chris
Good, Malcolm C.

Univ. of Melbourne
The Univ. of Melbourne
Univ. of Melbourne

FrB03

Room 203

Stochastic Systems and Control I (Invited Session)

Chair: Pasik-Duncan, Bozenna

Univ. of Kansas

Co-Chair: Caines, Peter E.

McGill Univ.

Organizer: Pasik-Duncan, Bozenna

Univ. of Kansas

Organizer: Kumar, P. R.

Univ. of Illinois, Urbana-Champaign

13:30-13:50

FrB03.1

A Dynamic Programming Algorithm for Decentralized Markov Decision Processes with a Broadcast Structure, pp. 6143-6148.

Wu, Jeff

Stanford Univ.

Lall, Sanjay

Stanford Univ.

13:50-14:10

FrB03.2

How Cooperation Arises from Rational Players? (I), pp. 6149-6154.

Guo, Lei

Chinese Academy of Sciences

Mu, Yifen

Chinese Acad. of Sciences

14:10-14:30

FrB03.3

Numerical Methods for the Optimization of Nonlinear Stochastic Delay Systems, and an Application to Internet Regulation (I), pp.

6155-6162.

Kushner, Harold J.

Brown Univ.

14:30-14:50

FrB03.4

Stochastic Linear-Quadratic Control for Systems with a Fractional Brownian Motion (I), pp. 6163-6168.

Duncan, Tyrone E.

Univ. of Kansas

Pasik-Duncan, Bozenna

Univ. of Kansas

14:50-15:10

FrB03.5

Stochastic Adaptive Nash Certainty Equivalence Control: Population Parameter Distribution Estimation (I), pp. 6169-6176.

Kizilkale, Arman C.

McGill Univ.

Caines, Peter E.

McGill Univ.

15:10-15:30

FrB03.6

Bounded Epsilon-Reachability of Linear Hybrid Automata with a Deterministic and Transversal Discrete Transition Condition (I), pp.

6177-6182.

Kim, Kyoung-Dae

Univ. of Illinois at Urbana-Champaign

Mitra, Sayan

Univ. of Illinois

Kumar, P. R.

Univ. of Illinois, Urbana-Champaign

FrB04

Room 204

Model/Controller Reduction II (Regular Session)

Chair: Helmke, Uwe R.

Univ. of Wuerzburg

Co-Chair: Frangos, Michalis

Massachusetts Inst. of Tech.

13:30-13:50

FrB04.1

Aggregation-Based Model Reduction of a Hidden Markov Model, pp. 6183-6188.

Deng, Kun

Univ. of Illinois, Urbana-Champaign

Mehta, Prashant G.

Univ. of Illinois, Urbana-Champaign

Meyn, Sean

Univ. of Illinois

13:50-14:10

FrB04.2

On Moment Matching with Preservation of Passivity and Stability, pp. 6189-6194.

Ionescu, Tudor C.

Imperial Coll. London

Astolfi, Alessandro

Imperial Coll. & Univ. of Rome

14:10-14:30

FrB04.3

Model Reduction of Polynomial Dynamical Systems Using Differential Algebra, pp. 6195-6200.

Motee, Nader

Caltech

Bamieh, Bassam

Univ. of California at Santa Barbara

Khammash, Mustafa H.

Univ. of California at Sta. Barbara

14:30-14:50

FrB04.4

Plant-Model Reduction for PID Controller Design, pp. 6201-6206.

Kondo, Hiroyuki

National Defense Acad.

Ochi, Yoshimasa

National Defense Acad.

14:50-15:10

FrB04.5

Controller Reduction with Closed Loop Performance Guarantee, pp. 6207-6212.

Sou, Kin Cheong

Royal Inst. of Tech.

Rantzer, Anders

Lund Univ.

15:10-15:30

FrB04.6

Coprime Factor Model Reduction for Discrete-Time Uncertain Systems, pp. 6213-6218.

Li, Li

The Univ. of Melbourne

FrB05

Room 205

Nonlinear Systems IV (Regular Session)

Chair: Allgower, Frank	Univ. of Stuttgart
Co-Chair: Kellett, Christopher M.	Univ. of Newcastle
13:30-13:50	FrB05.1
<i>Robust Nonlinear Control Design of a Hypersonic Flight Vehicle Using Minimax Linear Quadratic Gaussian Control</i> , pp. 6219-6224.	
Rehman, Obaid Ur	Univ. of New South Wales at Australian Defence Force Acad.
Petersen, Ian R.	Univ. of New South Wales
Fidan, Baris	Univ. of Waterloo
13:50-14:10	FrB05.2
<i>Regulation of Mechanisms with Friction Driven by Brushed DC Motors Via IDA-PBC Method</i> , pp. 6225-6229.	
Sandoval, Jesus	UABC
Kelly, Rafael	CICESE
Santibanez, Victor	Inst. Tecnológico De La Laguna
14:10-14:30	FrB05.3
<i>Synchronization Conditions for Lyapunov Oscillators</i> , pp. 6230-6235.	
Schmidt, Gerd Simon	Univ. of Stuttgart
Ebenbauer, Christian	Stuttgart Univ.
Allgower, Frank	Univ. of Stuttgart
14:30-14:50	FrB05.4
<i>A Minimum Phase Output in the Exact Tracking Problem for the Nonminimum Phase Underactuated Surface Ship</i> , pp. 6236-6241.	
Consolini, Luca	Univ. of Parma
Tosques, Mario	Univ. of Parma
14:50-15:10	FrB05.5
<i>Nonlinear L2-Gain Analysis Via a Cascade</i> , pp. 6242-6247.	
Dower, Peter M.	The Univ. of Melbourne
Zhang, Huan	The Univ. of Melbourne
Kellett, Christopher	Univ. of Newcastle
15:10-15:30	FrB05.6
<i>Iterative Output Replanning for Flat Systems Affected by Additive Noise</i> , pp. 6248-6253.	
Consolini, Luca	Univ. of Parma
Lini, Gabriele	Univ. of Parma
Piazzi, Aurelio	Univ. of Parma

FrB06

Room 206

Algebraic/Geometric Methods I (Regular Session)

Chair: Guay, Martin	Queen's Univ.
Co-Chair: Saccon, Alessandro	Inst. Superior Técnico
13:30-13:50	FrB06.1
<i>Construction of the Interconnection and Damping Structure Based on the Set of Admissible Equilibria</i> , pp. 6254-6258.	
Hoeffner, Kai	Queens Univ.
Guay, Martin	Queen's Univ.
13:50-14:10	FrB06.2
<i>Geometry of Power Flow in Negatively Curved Power Grid</i> , pp. 6259-6264.	
Banirazi, Reza	USC
Jonckheere, Edmond A.	Univ. of Southern California
14:10-14:30	FrB06.3
<i>Stokes-Dirac Structures through Reduction of Infinite-Dimensional Dirac Structures</i> , pp. 6265-6270.	
Vankerschaver, Joris	Ghent Univ.
Yoshimura, Hiroaki	Waseda Univ.
Marsden, Jerrold E.	California Inst. of Tech.
Leok, Melvin	Univ. of California, San Diego
14:30-14:50	FrB06.4
<i>Local Decomposition and Accessibility of PDE Systems</i> , pp. 6271-6276.	
Rieger, Karl	Johannes Kepler Univ. Linz
Schöberl, Markus	Johannes Kepler Univ. Linz
Schlacher, Kurt	Johannes Kepler Univ. of Linz
14:50-15:10	FrB06.5
<i>Some Properties of the Riemannian Distance Function and the Position Vector X, with Applications to the Construction of Lyapunov Functions</i> , pp. 6277-6280.	
Pait, Felipe	Univ. Sao Paulo
Colon, Diego	São Paulo State Univ.
15:10-15:30	FrB06.6
<i>Computation of a Linearizing Diffeomorphism by Quadrature</i> , pp. 6281-6286.	
Menini, Laura	Univ. di Roma 'Tor Vergata'
Tornambe, Antonio	Univ. Di Roma Tor Vergata

FrB07

Room 207

Cooperative Control IV (Regular Session)

Chair: Simaan, Marwan A.	Univ. of Central Florida
Co-Chair: Lin, Fu	Univ. of Minnesota
13:30-13:50	FrB07.1

On the Dual Decomposition of Linear Quadratic Optimal Control Problems for Vehicular Formations , pp. 6287-6292.	Fardad, Makan Lin, Fu Jovanovic, Mihailo	Syracuse Univ. Univ. of Minnesota Univ. of Minnesota
13:50-14:10		FrB07.2
Sufficient Conditions for Flocking Via Graph Robustness Analysis , pp. 6293-6298.	Martin, Samuel Girard, Antoine	Lab. Jean Kuntzmann, Univ. de Grenoble Univ. Joseph Fourier
14:10-14:30		FrB07.3
Cooperative Actuator Fault Accommodation of Formation Flying Vehicles with Absolute Measurements , pp. 6299-6304.	Azizi, Seyyedmohsen Khorasani, Khashayar	Concordia Univ. Concordia Univ.
14:30-14:50		FrB07.4
A Design of Distributed Nonzero-Sum Nash Strategies , pp. 6305-6310.	Lin, Wei Qu, Zhihua Simaan, Marwan A.	Univ. of Central Florida Univ. of Central Florida Univ. of Central Florida
14:50-15:10		FrB07.5
Consensus with Constrained Convergence Rate: Agreement in Communities , pp. 6311-6316.	Morarescu, Irinel Constantin Girard, Antoine	INRIA Univ. Joseph Fourier
15:10-15:30		FrB07.6
Robust Consensus for Uncertain Multi-Agent Systems on Directed Communication Topologies , pp. 6317-6322.	Zhang, Wenlin Wang, Zheng Guo, Yi	Stevens Inst. of Tech. Stevens Inst. Tech. Stevens Inst. of Tech.

FrB08 Room 208

Autonomous Robots I (Regular Session)

Chair: Spletzer, John		Lehigh Univ.
Co-Chair: Aranda-Bricaire, Eduardo		CINVESTAV
13:30-13:50		FrB08.1
Trajectory Tracking for Groups of Unicycles with Convergence of the Orientation Angles , pp. 6323-6328.	Hernández-Martínez, Eduardo Gamaliel Aranda-Bricaire, Eduardo	Tecnologico de Estudios Superiores de Coacalco CINVESTAV
13:50-14:10		FrB08.2
A Cell Decomposition Approach to Cooperative Path Planning and Collision Avoidance Via Disjunctive Programming , pp. 6329-6336.	Swingler, Ashleigh Ferrari, Silvia	Duke Univ. Duke Univ.
14:10-14:30		FrB08.3
Nonholonomic Source Seeking in Switching Random Fields , pp. 6337-6342.	Azuma, Shun-ichi Sakar, Mahmut Selman Pappas, George J.	Kyoto Univ. Univ. of Pennsylvania Univ. of Pennsylvania
14:30-14:50		FrB08.4
Towards Perpetual Flight of a Gliding Unmanned Aerial Vehicle in the Jet Stream , pp. 6343-6349.	Grenestedt, Joachim Spletzer, John	Lehigh Univ. Lehigh Univ.
14:50-15:10		FrB08.5
Small Unmanned Helicopter Autorotation Using Non-Linear Model Predictive Control , pp. 6350-6357.	Dalamagkidis, Konstantinos Valavanis, Kimon Piegl, Les	Tech. Univ. of Munich Univ. of Denver Univ. of South Florida
15:10-15:30		FrB08.6
Optimal Trajectories for Multi Robot Localization , pp. 6358-6364.	Cristofaro, Andrea Martinelli, Agostino	INRIA Rhone-Alpes INRIA - ETHZ

FrB09 Room 209

Nonlinear System Identification I (Regular Session)

Chair: Hjalmarsson, Håkan		Royal Inst. of Tech.
Co-Chair: Piroddi, Luigi		Pol. di Milano
13:30-13:50		FrB09.1
Semiparametric Identification of Hammerstein Systems Using Input Reconstruction and a Single Harmonic Input , pp. 6365-6370.	D'Amato, Anthony Mitchell, Kenny Teixeira, Bruno Otavio Soares Bernstein, Dennis S.	Univ. of Michigan Univ. of Michigan Federal Univ. of Minas Gerais Univ. of Michigan
13:50-14:10		FrB09.2
Estimation of General Nonlinear State-Space Systems , pp. 6371-6376.		

Ninness, Brett	Univ. of Newcastle
Schon, Thomas (Bo)	Linköping Univ.
Wills, Adrian	Univ. of Newcastle
14:10-14:30	FrB09.3
<i>Identification of Mixed Linear/Nonlinear State-Space Models</i> , pp. 6377-6382.	
Lindsten, Fredrik	Linköping Univ.
Schon, Thomas (Bo)	Linköping Univ.
14:30-14:50	FrB09.4
<i>Wind-Disturbance and Aerodynamic Parameter Estimation of an Experimental Launched Micro Air Vehicle Using an EKF-Like Observer</i> , pp. 6383-6388.	
Koehl, Arnaud	Res. Centre for Automatic Control of Nancy
Boutayeb, Mohamed	Univ. of Henri Poincaré Nancy
Rafaralahy, Hugues	Univ. Henri Poincaré, Nancy I
Martinez, Bastien	French-German Res. Inst. of Saint-Louis
14:50-15:10	FrB09.5
<i>Linear Parametric Noise Models for Least Squares Support Vector Machines</i> , pp. 6389-6394.	
Falck, Tillmann	K.U. Leuven
Suykens, J.A.K.	Katholieke Univ. Leuven
De Moor, Bart L.R.	Katholieke Univ. Leuven
15:10-15:30	FrB09.6
<i>Identification and Control of Nonlinear Systems Via Piecewise Affine Approximation</i> , pp. 6395-6402.	
Lai, Chow Yin	National Univ. of Singapore
Xiang, Cheng	National Univ. of Singapore
Lee, Tong Heng	National Univ. of Singapore

FrB10 Room 210

Automotive Control II (Regular Session)

Chair: Taylor, David G.	Georgia Inst. of Tech.
Co-Chair: Evangelou, Simos Andreas	Imperial Coll.
13:30-13:50	FrB10.1
<i>Predictive Yaw and Lateral Control of Long Heavy Vehicle Combinations</i> , pp. 6403-6408.	
Keshavarz Bahaghighat, Mansour	Chalmers Univ. of Tech.
Kharrazi, Sogol	Chalmers Univ. of Tech.
Lidberg, Mathias	Chalmers Univ. of Tech.
Falcone, Paolo	Chalmers Univ. of Tech.
Schofield, Brad	Lund Univ.
13:50-14:10	FrB10.2
<i>Design of Nonlinear Least-Squares Velocity Estimation Algorithms for Automotive Vehicles</i> , pp. 6409-6414.	
Taylor, David G.	Georgia Inst. of Tech.
14:10-14:30	FrB10.3
<i>Optimizing Point to Point Motion of Net Velocity Constrained Manipulators</i> , pp. 6415-6420.	
Enes, Aaron R.	Georgia Inst. of Tech.
Book, Wayne J.	Georgia Inst. of Tech.
14:30-14:50	FrB10.4
<i>Persistent Disturbances Rejection on Internal Combustion Engine Torque in Hybrid Electric Vehicles</i> , pp. 6421-6426.	
Njeh, Mohamed	Univ. of Poitiers
Cauet, Sebastien	Univ. of Poitiers
Coirault, Patrick	Esip-laii
14:50-15:10	FrB10.5
<i>Gain-Scheduled LPV/Hinf Controller Based on Direct Yaw Moment and Active Steering for Vehicle Handling Improvements</i> , pp. 6427-6432.	
Doumiati, Moustapha	Univ. INP-Grenoble
Sename, Olivier	Grenoble Inst. of Tech.
Martinez Molina, John Jairo	GIPSA-Lab. GRENOBLE-INP
Dugard, Luc	CNRS-Grenoble INP
Poussot-Vassal, Charles	ONERA
15:10-15:30	FrB10.6
<i>Nonlinear Exhaust Pressure Control of an SI Engine with VGT Using Partial Model Inversion</i> , pp. 6433-6438.	
Flärdh, Oscar	KTH
Mrtensson, Jonas	KTH - Royal Inst. of Tech.

FrB11 Room 211

Control of Communication Systems (Regular Session)

Chair: Galeani, Sergio	Univ. Di Roma Tor Vergata
Co-Chair: Lamperski, Andrew	California Inst. of Tech.
13:30-13:50	FrB11.1
<i>Stability of IS-856 CDMA Networks with Non-Fully Buffered Users: A Fair Rate Allocation Strategy</i> , pp. 6439-6444.	
Jalaliddini, Kian	McGill Univ.
Moezzi, Kaveh	Concordia Univ.
Aghdam, Amir G.	Concordia Univ.
Alasti, Mehdi	Airvana Inc
13:50-14:10	FrB11.2

<i>Rate Distortion Function with Causal Decoding</i> , pp. 6445-6450.	Univ. of Cyprus
Charalambous, Charalambos D.	Univ. of Cyprus
Kourtellaris, Christos	Univ. of Cyprus
Stavrou, Photios	Univ. of Cyprus
14:10-14:30	FrB11.3
<i>Input Output Analysis of Power Control in Wireless Networks</i> , pp. 6451-6456.	Royal Inst. of Tech.
Moller, Anders	Royal Inst. of Tech. (KTH)
Jonsson, Ulf T.	Royal Inst. of Tech. (KTH)
14:30-14:50	FrB11.4
<i>LQG Control Approach for Gaussian MAC with Feedback</i> , pp. 6457-6462.	UCSD
Ardestanizadeh, Ehsan	UCSD
Franceschetti, Massimo	UCSD
14:50-15:10	FrB11.5
<i>A Neuro-Inspired Method for Data Rate Limited Feedback Control</i> , pp. 6463-6468.	California Inst. of Tech.
Lamperski, Andrew	California Inst. of Tech.
15:10-15:30	FrB11.6
<i>Lazy Sensors for the Scheduling of Measurement Samples Transmission in Linear Closed Loops Over Networks</i> , pp. 6469-6474.	Univ. di Roma Tor Vergata
Forni, Fulvio	Univ. Di Roma Tor Vergata
Galeani, Sergio	Univ. di Roma, Tor Vergata
Zaccarian, Luca	Univ. di Roma, Tor Vergata
Nesic, Dragan	Univ. of Melbourne

FrB12 Room 212

Switched Systems V (Regular Session)	Concordia Univ.
Chair: Aghdam, Amir G.	Univ. of Wyoming
Co-Chair: Stefanovic, Margareta	Univ. of Wyoming
13:30-13:50	FrB12.1
<i>Disturbance Decoupling of Switched Linear Systems</i> , pp. 6475-6480.	Tech. Univ. Eindhoven
Yurtseven, Evren	Eindhoven Univ. of Tech.
Heemels, Maurice	Univ. of Groningen
Camlibel, Kanat	Univ. of Groningen
13:50-14:10	FrB12.2
<i>Robust Reach-Avoid Controller Synthesis for Switched Nonlinear Systems</i> , pp. 6481-6486.	Univ. of California - Berkeley
Ding, Jerry	UC Berkeley
Tomlin, Claire J.	UC Berkeley
14:10-14:30	FrB12.3
<i>Robustness Assessment of High-Dimensional Jump Linear System</i> , pp. 6487-6492.	United Tech. Res. Center
Shishkin, Serge	United Tech. Res. Center
14:30-14:50	FrB12.4
<i>Robust Stabilization of Switched Linear Systems with Wiener Process Noise</i> , pp. 6493-6498.	McGill Univ.
Raouf, Jamila	McGill Univ.
Michalska, Hannah H.	McGill Univ.
14:50-15:10	FrB12.5
<i>On the State-Feedback Robust Control of Continuous-Time Infinite Markov Jump Linear Systems</i> , pp. 6499-6504.	LNCC
Todorov, Marcos	LNCC / MCT
Fragoso, Marcelo	LNCC / MCT
15:10-15:30	FrB12.6
<i>Output-Feedback Robust Control of Continuous-Time Infinite Markov Jump Linear Systems</i> , pp. 6505-6510.	LNCC
Todorov, Marcos	LNCC / MCT
Fragoso, Marcelo	LNCC / MCT

FrB13 Room 213

Filtering and Estimation IV (Regular Session)	Univ. Claude Bernard Lyon 1
Chair: Nadri, Madiha	Univ. of Southern California
Co-Chair: Qin, S. Joe	Univ. of Southern California
13:30-13:50	FrB13.1
<i>Near-Optimal Deterministic Attitude Filtering</i> , pp. 6511-6516.	The Australian National Univ.
Zamani, Mohammad	The Australian National Univ.
Trumpf, Jochen	Australian National Univ.
Mahony, Robert	Australian National Univ.
13:50-14:10	FrB13.2
<i>High Gain Observers Based on Immersion Technics</i> , pp. 6517-6521.	Univ. Claude Bernard
Hammouri, Hassan	Lagep-CNRS, Univ. Lyon1
Uccheddu, Basile	Lagep-CNRS, Univ. Lyon1
14:10-14:30	FrB13.3
<i>Observer Design for Lipschitz Systems with Discrete-Time Measurements</i> , pp. 6522-6527.	Univ. de Lyon
Andrieu, Vincent	Univ. Claude Bernard Lyon 1
Nadri, Madiha	Univ. Claude Bernard Lyon 1
14:30-14:50	FrB13.4

Tension Soft Sensor of Continuous Annealing Line Using Cascade Frequency Domain Observer with Combined PCA and Neural Networks Error Compensation, pp. 6528-6533.

Liu, Qiang

Chai, Tianyou

Wang, Hong

Qin, S. Joe

Northeastern Univ.

Northeastern Univ.

The Univ. of Manchester

Univ. of Southern California

14:50-15:10

FrB13.5

Probabilistic Mutual Localization in Multi-Agent Systems from Anonymous Position Measures, pp. 6534-6540.

Franchi, Antonio

Oriolo, Giuseppe

Stegagno, Paolo

Max Planck Inst. for Biological Cybernetics

Univ. di Roma

Univ. di Roma "La Sapienza"

15:10-15:30

FrB13.6

Design of Optimal Feedback Filters with Guaranteed Closed-Loop Stability for Oversampled Noise-Shaping Subband Quantizers, pp.

6541-6546.

Wahls, Sander

Boche, Holger

Tech. Univ. Berlin

Tech. Univ. Berlin

FrB14

Room 214

Robust Stability of Large-Scale Interconnections I (Invited Session)

Chair: Dashkovskiy, Sergey

Univ. of Bremen

Co-Chair: Ruffer, Björn Sebastian

Univ. of Melbourne

Organizer: Dashkovskiy, Sergey

Univ. of Bremen

Organizer: Ruffer, Björn Sebastian

Univ. of Melbourne

13:30-13:50

FrB14.1

On the Uniform Input-To-State Stability of Reaction-Diffusion Systems (I), pp. 6547-6552.

Dashkovskiy, Sergey

Univ. of Bremen

Mironchenko, Andrii

Univ. of Bremen

13:50-14:10

FrB14.2

Diagonal Stability on Cactus Graphs (I), pp. 6553-6558.

Arcak, Murat

Univ. of California, Berkeley

14:10-14:30

FrB14.3

Stability of Networked Systems: A Multi-Scale Approach Using Contraction (I), pp. 6559-6564.

Russo, Giovanni

Univ. of Naples Federico II

Di Bernardo, Mario

Univ. of Naples Federico II

Sontag, Eduardo D.

Rutgers Univ.

14:30-14:50

FrB14.4

Dynamical System Decomposition for Efficient, Sparse Analysis (I), pp. 6565-6570.

Anderson, James

Univ. of Oxford

Papachristodoulou, Antonis

Univ. of Oxford

14:50-15:10

FrB14.5

Multichannel Small-Gain Theorems for Large Scale Networked Systems (I), pp. 6571-6576.

Sailer, Rudolf

Univ. of Wuerzburg

Wirth, Fabian R.

Univ. Würzburg

15:10-15:30

FrB14.6

Performance Limitations of the Servomechanism Problem When the Number of Tracking/Disturbance Poles Increases, pp. 6577-6583.

Lam, Simon

Univ. of Toronto

Davison, Edward J.

Univ. of Toronto

FrB15

Room 301

Agents and Autonomous Systems V (Regular Session)

Chair: Bai, Er-Wei

Univ. of Iowa

Co-Chair: Vaidya, Umesh

Iowa State Univ.

13:30-13:50

FrB15.1

Deployment of Drifters in a Piecewise-Constant Flow Environment, pp. 6584-6589.

Kwok, Andrew

Univ. of California at San Diego

Martinez, Sonia

Univ. of California at San Diego

13:50-14:10

FrB15.2

Optimizing Formation Rigidity under Connectivity Constraints, pp. 6590-6595.

Kim, Yanghyun

Purdue Univ.

Zhu, Guangwei

Purdue Univ.

Hu, Jianghai

Purdue Univ.

14:10-14:30

FrB15.3

Consensus in Non-Commutative Spaces, pp. 6596-6601.

Sepulchre, Rodolphe J.

Univ. de Liege

Sarlette, Alain

Univ. of Liege (Belgium)

Rouchon, Pierre

Mines ParisTech

14:30-14:50

FrB15.4

Distributed Randomized PageRank Algorithms Based on Web Aggregation Over Unreliable Channels, pp. 6602-6607.

Ishii, Hideaki

Tokyo Inst. of Tech.

Tempo, Roberto

Pol. di Torino

Bai, Er-Wei	Univ. of Iowa
14:50-15:10	FrB15.5
<i>Convergence Rates of Consensus Algorithms in Stochastic Networks</i> , pp. 6608-6613.	
Patterson, Stacy	Univ. of California at Santa Barbara
Bamieh, Bassam	Univ. of California at Santa Barbara
15:10-15:30	FrB15.6
<i>Performance Limitation in Multi-Agent Estimation with Limited Sensor Measurement</i> , pp. 6614-6619.	
Diwadkar, Amit	Iowa State Univ.
Vaidya, Umesh	Iowa State Univ.

FrB16 Room 302

Information Dynamics in Social and Economic Networks (Invited Session)

Chair: Tahbaz-Salehi, Alireza	Massachusetts Inst. of Tech.
Co-Chair: Como, Giacomo	Massachusetts Inst. of Tech.
Organizer: Tahbaz-Salehi, Alireza	Massachusetts Inst. of Tech.
Organizer: Como, Giacomo	Massachusetts Inst. of Tech.
Organizer: Ozdaglar, Asuman	MIT
13:30-13:50	FrB16.1
<i>Democracy in Markov Chains and Its Preservation under Local Perturbations (I)</i> , pp. 6620-6625.	
Fagnani, Fabio	Pol. Di Torino
Delvenne, Jean-Charles	Univ. catholique de Louvain
13:50-14:10	FrB16.2
<i>Opinion Dynamics for Agents with Opinion-Dependent Connections (I)</i> , pp. 6626-6632.	
Blondel, Vincent	Univ. catholique de Louvain
Hendrickx, Julien M.	Univ. catholique de Louvain
Tsitsiklis, John	Massachusetts Inst. of Tech.
14:10-14:30	FrB16.3
<i>Mean Field Equilibrium in Dynamic Games with Complementarities (I)</i> , pp. 6633-6638.	
Adlakha, Sachin	Stanford Univ.
Johari, Ramesh	Stanford Univ.
14:30-14:50	FrB16.4
<i>On Connectivity, Observability, and Stability in Distributed Estimation (I)</i> , pp. 6639-6644.	
Khan, Usman	Univ. of Pennsylvania
Kar, Soumya	Carnegie Mellon Univ.
Jadbabaie, Ali	Univ. of Pennsylvania
Moura, Jose' M. F.	Carnegie Mellon Univ.
14:50-15:10	FrB16.5
<i>Observational Learning in an Uncertain World (I)</i> , pp. 6645-6650.	
Acemoglu, Daron	MIT
Dahleh, Munther A.	Massachusetts Inst. of Tech.
Ozdaglar, Asuman	MIT
Tahbaz-Salehi, Alireza	Massachusetts Inst. of Tech.
15:10-15:30	FrB16.6
<i>Control of Preferences in Social Networks (I)</i> , pp. 6651-6656.	
Chasparis, Georgios C.	Georgia Inst. of Tech.
Shamma, Jeff S.	Georgia Inst. of Tech.

FrB17 Room 303

Optimal Control III (Regular Session)

Chair: Vinagre, B. M.	Univ. de Extremadura
Co-Chair: Goebel, Rafal	Loyola Univ. Chicago
13:30-13:50	FrB17.1
<i>Regularity Properties of Optimal Control in a Problem with Mixed and Pure State Constraints</i> , pp. 6657-6659.	
Shvartsman, Ilya	Penn State Harrisburg
13:50-14:10	FrB17.2
<i>A Dynamic Programming Approach for the Motion Control of Autonomous Vehicles</i> , pp. 6660-6665.	
Silva, Jorge Estrela	Inst. Superior de Engenharia do Porto
Sousa, Joao	Univ. Porto - Faculdade Engenharia
14:10-14:30	FrB17.3
<i>The Minimum Principle for Hybrid Systems with Partitioned State Space and Unspecified Discrete State Sequence</i> , pp. 6666-6673.	
Passenberg, Benjamin	Tech. Univ. Muenchen
Caines, Peter E.	McGill Univ.
Sobotka, Marion	TU Muenchen
Stursberg, Olaf	Univ. of Kassel
Buss, Martin	Tech. Univ. Muenchen
14:30-14:50	FrB17.4
<i>Infinite Horizon State-Feedback LQR Controller for Fractional Systems</i> , pp. 6674-6679.	
Sierociuk, Dominik	Warsaw Univ. of Tech. (ISEP)
Vinagre, B. M.	Univ. de Extremadura
14:50-15:10	FrB17.5

Duality, Viability and Optimality through Linear Programming Approach to Deterministic Infinite Horizon Optimal Control Problems with Discounting, pp. 6680-6685.

Gaitsgory, Vladimir
Quincampoix, Marc

Univ. of South Australia
Univ. de Bretagne Occidentale
FrB17.6

15:10-15:30

Asymptotic Stackelberg Optimal Control Design for an Uncertain Euler Lagrange System, pp. 6686-6691.

Johnson, Marcus
Hiramatsu, Takashi
Fitz-Coy, Norman
Dixon, Warren E.

Univ. of florida
Univ. of Florida
Univ. of Florida
Univ. of Florida

FrB18

Room 304

Networked Control Systems III (Regular Session)

Chair: Pappas, George J.
Co-Chair: Egerstedt, Magnus

Univ. of Pennsylvania
Georgia Inst. of Tech.

13:30-13:50

FrB18.1

Upper Bounds on the Best Achievable Performance Subject to SNR Constraints in Two-Channel Networked Architectures, pp. 6692-6697.

Pulgar, Sebastián A.
Silva, Eduardo I.
Salgado, Mario E.

Univ. Técnica Federico Santa Maria
Univ. Tecnica Federico Santa Maria
Univ. Tecnica Federico

13:50-14:10

FrB18.2

Distributed Adaptive Controller Design for the Unknown Networked Lagrangian Systems, pp. 6698-6703.

Chen, Gang
Lewis, Frank L.

Chongqing Univ.
Univ. of Texas at Arlington

14:10-14:30

FrB18.3

Performance Optimization for Networked Control Systems with Limited Channels and Data Drift, pp. 6704-6709.

Wang, Yu-Long
Han, Qing-Long
Yu, Xinghuo

Central Queensland Univ.
Central Queensland Univ.
RMIT Univ.

14:30-14:50

FrB18.4

Constructive Synchronization of Networked Feedback Systems, pp. 6710-6715.

Hamadeh, Abdullah Omar
Stan, Guy-Bart Vincent
Goncalves, Jorge M.

Univ. of Cambridge
Imperial Coll. London
Univ. of Cambridge

14:50-15:10

FrB18.5

Distributed Self-Triggered Control for Multi-Agent Systems, pp. 6716-6721.

Dimarogonas, Dimos V.
Frazzoli, Emilio
Johansson, Karl H.

Massachusetts Inst. of Tech.
Massachusetts Inst. of Tech.
Royal Inst. of Tech.

15:10-15:30

FrB18.6

mc{H}_2-Optimal Decentralized Control Over Posets: A State Space Solution for State-Feedback, pp. 6722-6727.

Shah, Parikshit
Parrilo, Pablo A.

Massachusetts Inst. of Tech.
Massachusetts Inst. of Tech.

FrB19

Room 305

Discrete Event Systems (Regular Session)

Chair: Hindi, Haiham
Co-Chair: van den Boom, Ton J. J.

Palo Alto Res. Center (PARC)
Delft Univ. of Tech.

13:30-13:50

FrB19.1

A Solution of the Lot Sizing Problem As a Stochastic Resource Contention Game, pp. 6728-6733.

Yao, Chen
Cassandras, Christos G.

Boston Univ.
Boston Univ.

13:50-14:10

FrB19.2

Language-Based Minimization of Sensor Activation for Event Diagnosis, pp. 6734-6739.

Wang, Weilin
Gong, Chaohui
Girard, Anouck

Univ. of Michigan
Wayne State Univ.
Univ. of Michigan, Ann Arbor

14:10-14:30

FrB19.3

An Identification Method for PLC-Based Automated Discrete Event Systems, pp. 6740-6746.

Estrada Vargas, Ana Paula
Lopez-Mellado, Ernesto
Lesage, Jean-jacques

CINVESTAV
CINVESTAV
Ens Cachan

14:30-14:50

FrB19.4

Structural Properties of Optimal Scheduling in Prioritized Discrete Event Systems with Real-Time Constraints, pp. 6747-6752.

Miao, Lei

the Univ. of Cincinnati

14:50-15:10

FrB19.5

An Iterative Control Method for Distributed Continuous Petri Nets, pp. 6753-6758.

Apaydin, Hanife
Mahulea, Cristian
Julvez, Jorge

Anadolu Univ.
Univ. of Zaragoza
Univ. of Zaragoza

Silva, Manuel	Univ. De Zaragoza
15:10-15:30	FrB19.6
<i>Opacity Verification in Stochastic Discrete Event Systems</i> , pp. 6759-6764.	
Saboori, Anooshiravan	Univ. of Illinois, Urbana Champaign
Hadjicostis, Christoforos	Univ. of Cyprus
FrB20	Room 306
Modeling II (Regular Session)	
Chair: Jeltsema, Dimitri	Delft Univ. of Tech.
Co-Chair: Gugercin, Serkan	Virginia Tech.
13:30-13:50	FrB20.1
<i>Node Capture Attacks in Wireless Sensor Networks: A System Theoretic Approach</i> , pp. 6765-6772.	
Bonaci, Tamara	Univ. of Washington, Seattle
Bushnell, Linda G.	Univ. of Washington
Poovendran, Radha	Univ. of Washington, Seattle
13:50-14:10	FrB20.2
<i>Dynamic Prediction Model for Mixed Concentrate Grade of Mineral Processing Plant</i> , pp. 6773-6778.	
Ding, Jinliang	Northeastern Univ.
Chai, Tianyou	Northeastern Univ.
Wang, Hong	The Univ. of Manchester
14:10-14:30	FrB20.3
<i>On Continuum Limits of Markov Chains and Network Modeling</i> , pp. 6779-6784.	
Zhang, Yang	Colorado State Univ.
Chong, Edwin K. P.	Colorado State Univ.
Hannig, Jan	Colorado State Univ.
Estep, Donald	Colorado State Univ.
14:30-14:50	FrB20.4
<i>Optimal Smoothing Spline with Constraints on Its Derivatives</i> , pp. 6785-6790.	
Kano, Hiroyuki	Tokyo Denki Univ.
Fujioka, Hiroyuki	Fukuoka Inst. of Tech.
Martin, Clyde F.	Texas Tech. Univ.
14:50-15:10	FrB20.5
<i>An Interpolation-Based Approach to H_{∞} Model Reduction of Dynamical Systems</i> , pp. 6791-6796.	
Flagg, Garret	Virginia Tech.
Gugercin, Serkan	Virginia Tech.
Beattie, Christopher A.	Virginia Tech.
15:10-15:30	FrB20.6
<i>Rational Krylov Methods for Optimal L_2 Model Reduction</i> , pp. 6797-6802.	
Magruder, Caleb	Virginia Tech.
Beattie, Christopher A.	Virginia Tech.
Gugercin, Serkan	Virginia Tech.
FrB21	Room 307
Analysis and Design of Alarm Systems (Invited Session)	
Chair: Izadi, Iman	Univ. of Alberta
Co-Chair: Chen, Tongwen	Univ. of Alberta
Organizer: Izadi, Iman	Matrikon Inc.
Organizer: Shah, Sirish L.	Univ. of Alberta
Organizer: Chen, Tongwen	Univ. of Alberta
13:30-13:50	FrB21.1
<i>Effective Resource Utilization for Alarm Management (I)</i> , pp. 6803-6808.	
Izadi, Iman	Matrikon Inc.
Shah, Sirish L.	Univ. of Alberta
Chen, Tongwen	Univ. of Alberta
13:50-14:10	FrB21.2
<i>Quantification of Alarm Chatter Based on Run Length Distributions (I)</i> , pp. 6809-6814.	
Kondaveeti, Sandeep Reddy	Univ. of Alberta
Izadi, Iman	Matrikon Inc.
Shah, Sirish L.	Univ. of Alberta
Shook, David Stephen	Univ. of Alberta
Kadali, Ramesh	Univ. of Alberta
14:10-14:30	FrB21.3
<i>Ensuring Safety in Distributed Networks (I)</i> , pp. 6815-6820.	
Spaanenburg, Lambertus	Lund Univ.
14:30-14:50	FrB21.4
<i>Averaged Alarm Delay and Systematic Design for Alarm Systems (I)</i> , pp. 6821-6826.	
Xu, Jianwei	Peking Univ.
Wang, Jiandong	Peking Univ.
14:50-15:10	FrB21.5
<i>Sensor Placement and Fault Detection Using an Efficient Fuzzy Feature Selection Approach</i> , pp. 6827-6832.	
Hedjazi, Lyamine	LAAS-CNRS

Kempowsky, Tatiana	LAAS-CNRS
Despenes, Laurene	Lab. de Génie Chimique INPT-CNRS-Univ. UPS, UMR 5503
LeLann, Marie-Veronique	Insa / Laas-cnrs
Elgue, Sebastien	Lab. de Génie Chimique INPT-CNRS-Univ. UPS, UMR 5503
Aguilar-Martin, Josep	CTAE- Aerospace Res. & Tech. Center
15:10-15:30	FrB21.6
<i>Robust Fault Detection and Monitoring of Hybrid Process Systems with Uncertain Mode Transitions</i> , pp. 6833-6838.	
Hu, Ye	Univ. of California, Davis
El-Farra, Nael H.	Univ. of California, Davis

FrB22 Room 308

Linear Systems III (Regular Session)

Chair: Scherer, Carsten W.	Delft Univ. of Tech.
Co-Chair: Bonilla, Moises E.	CINVESTAV-IPN
13:30-13:50	FrB22.1
<i>LPV Identification of an Aeroelastic Flutter Model</i> , pp. 6839-6844.	
van Wingerden, Jan-Willem	Delft Univ. of Tech.
Gebraad, Pieter Marinus Otto	Delft Univ. of Tech.
Verhaegen, Michel	Delft Univ. of Tech.
13:50-14:10	FrB22.2
<i>Gain-Scheduled Control Synthesis Using Dynamic D-Scales</i> , pp. 6845-6850.	
Scherer, Carsten W.	Univ. of Stuttgart
Kose, Emre	Bogazici Univ.
14:10-14:30	FrB22.3
<i>Linear Recurrent Neural Network for Open and Closed-Loop Consistent Identification of LPV Models</i> , pp. 6851-6856.	
Abbas, Hossam Seddik	Assiut Uinveristy
Ali, Mukhtar	Tech. Univ. Hamburg Harburg (TUHH)
Werner, Herbert	Hamburg Univ. of Tech.
14:30-14:50	FrB22.4
<i>Consensus Based Decentralized Estimation for Linear Plants with Unknown Inputs</i> , pp. 6857-6862.	
Pisano, Alessandro	Univ. of Cagliari
Usai, Elio	Univ. degli Studi di Cagliari
Pillosu, Siro	Univ. of Cagliari
14:50-15:10	FrB22.5
<i>A Generalization of Chang Transformation for Linear Time-Varying Systems</i> , pp. 6863-6869.	
Yang, Xiaojing	Ohio Univ.
Zhu, J. Jim	Ohio Univ.
15:10-15:30	FrB22.6
<i>Singularly Perturbed Implicit Control Law for Linear Time Varying SISO System</i> , pp. 6870-6875.	
Puga, S. A.	Acad. de Sistemas, UPIITA, Inst. Pol. Nacional
Bonilla, Moises E.	CINVESTAV-IPN
Malabre, Michel	CNRS

FrB23 Grand Salon A

Systems with Uncertainty (Invited Session)

Chair: Chesi, Graziano	Univ. of Hong Kong
Co-Chair: Jonsson, Ulf T.	Royal Inst. of Tech. (KTH)
Organizer: Chesi, Graziano	Univ. of Hong Kong
13:30-13:50	FrB23.1
<i>Robust Finite-Frequency H2 Analysis (I)</i> , pp. 6876-6881.	
Masi, Alfio	Univ. di Siena
Wallin, Ragnar	Linkoping Univ.
Garulli, Andrea	Univ. di Siena
Hansson, Anders	Linkoping Univ.
13:50-14:10	FrB23.2
<i>Assessing Robust Stability Properties of Uncertain Genetic Regulatory Networks (I)</i> , pp. 6882-6887.	
Chesi, Graziano	Univ. of Hong Kong
14:10-14:30	FrB23.3
<i>Robust H_∞ Control of Markovian Jump Systems with Mixed Time Delays (I)</i> , pp. 6888-6893.	
Karimi, Hamid Reza	Univ. of Agder
Luo, Ningsu	Univ. of Girona
Zapateiro, Mauricio	Univ. Pol. de Catalunya
14:30-14:50	FrB23.4
<i>Static Output Feedback Control of Polytopic Systems Using Polynomial Lyapunov Functions (I)</i> , pp. 6894-6901.	
Agulhari, Cristiano Marcos	Univ. of Campinas
Oliveira, Ricardo C. L. F.	Univ. of Campinas - UNICAMP
Peres, Pedro L. D.	Univ. of Campinas
14:50-15:10	FrB23.5
<i>Consensus of Heterogeneous Linear Agents Applied to a Formation Control Problem (I)</i> , pp. 6902-6907.	
Jonsson, Ulf T.	Royal Inst. of Tech. (KTH)
Kao, Chung-Yao	National Sun Yat-Sen Univ.

15:10-15:30		FrB23.6
<i>Robust Degree of Exponential Stability in Polynomially Uncertain Overlapping Control Systems</i> , pp. 6908-6913.		Concordia Univ.
Aghdam, Amir G.		
FrC01		Room 201
Distributed Parameter Systems V (Regular Session)		
Chair: Zuyev, Alexander	National Acad. of Sciences of Ukraine	
Co-Chair: Ohtsuka, Toshiyuki	Osaka Univ.	
16:00-16:20		FrC01.1
<i>Exact Controllability of a Wind Turbine Tower Model in the Plane of the Turbine Blades</i> , pp. 6914-6919.		
Zhao, Xiaowei	Univ. of Oxford	
Weiss, George	Tel Aviv Univ.	
16:20-16:40		FrC01.2
<i>Receding Horizon Control for Nonlinear Parabolic Partial Differential Equations with Boundary Control Inputs</i> , pp. 6920-6925.		
Hashimoto, Tomoaki	Osaka Univ.	
Yoshioka, Yusuke	Osaka Univ.	
Ohtsuka, Toshiyuki	Osaka Univ.	
16:40-17:00		FrC01.3
<i>Model-Based Control of the Magnetic Flux Profile in a Tokamak Plasma</i> , pp. 6926-6931.		
Bribiesca Argomedo, Federico	GIPSA-Lab.	
Witrant, Emmanuel	Univ. Joseph Fourier	
Prieur, Christophe	LAAS-CNRS	
Georges, Didier	Grenoble Inst. of Tech.	
Bremond, Sylvain	CEA Cadarache	
17:00-17:20		FrC01.4
<i>Predictive Control with Guaranteed Stability for Hyperbolic Systems of Conservation Laws</i> , pp. 6932-6937.		
Pham, Van Thang	Gipsa-Lab.	
Georges, Didier	Grenoble Inst. of Tech.	
Besancon, Gildas	GIPSA-Lab. Grenoble INP	
17:20-17:40		FrC01.5
<i>Identification of Spatially Interconnected Systems Using Neural Networks</i> , pp. 6938-6943.		
Ali, Mukhtar	Tech. Univ. Hamburg Harburg (TUHH)	
Abbas, Hossam Seddik	Assiut Uinveristy	
Chughtai, Saulat Shuja	Hamburg Univ. of Tech.	
Werner, Herbert	Hamburg Univ. of Tech.	
17:40-18:00		FrC01.6
<i>Approximate Controllability of a Rotating Kirchhoff Plate Model</i> , pp. 6944-6948.		
Zuyev, Alexander	National Acad. of Sciences of Ukraine	
FrC02		Room 202
Iterative Learning Control (Regular Session)		
Chair: Jia, Yingmin	Beihang Univ.	
Co-Chair: Schöllig, Angela	ETH Zurich	
16:00-16:20		FrC02.1
<i>Independent vs. Joint Estimation in Multi-Agent Iterative Learning Control</i> , pp. 6949-6954.		
Schöllig, Angela	ETH Zurich	
Alonso-Mora, Javier	ETHZ	
D'Andrea, Raffaello	ETH	
16:20-16:40		FrC02.2
<i>Delay-Dependent Conditions for Monotonic Convergence of Uncertain ILC Systems: An LMI Approach</i> , pp. 6955-6960.		
Meng, Deyuan	Beihang Univ. (BUAA)	
Jia, Yingmin	Beihang Univ.	
Du, Junping	Beijing Univ. of Posts and Telecommunications	
Yu, Fashan	Henan Pol. Univ.	
16:40-17:00		FrC02.3
<i>Iterative Learning and Repetitive Controller Design Via Duality with Experimental Verification</i> , pp. 6961-6966.		
Alsubaie, Muhammad	Univ. of Southampton	
Freeman, Christopher T.	Univ. of Southampton	
Cai, Zhonglun	Univ. of Southampton	
Rogers, Eric	Univ. of Southampton	
Lewin, Paul L.	Univ. of Southampton	
17:00-17:20		FrC02.4
<i>Second-Order Odd-Harmonic Repetitive Control and Its Application to Active Filter Control</i> , pp. 6967-6972.		
Costa-Castelló, Ramon	Univ. Pol. de Catalunya	
Ramos, Germán Andrés	Univ. Nacional de Colombia	
Olm, Josep M.	Univ. Pol. de Catalunya	
Steinbuch, Maarten	Eindhoven Univ. of Tech.	
17:20-17:40		FrC02.5
<i>On Structure Selection for Multivariable Repetitive-Predictive Controllers</i> , pp. 6973-6978.		
Wang, Liuping	Rmit Univ.	
Chai, Shan	Royal Melbourne Inst. of Tech.	

Freeman, Christopher T.	Univ. of Southampton
Rogers, Eric	Univ. of Southampton
17:40-18:00	FrC02.6
<i>On the Design of ILC Schemes for Finite Frequency Range Tracking Specifications</i> , pp. 6979-6984.	
Paszke, Wojciech	Univ. of Zielona Gora
Rogers, Eric	Univ. of Southampton
Galkowski, Krzysztof	Univ. of Zielona Gora

FrC03 Room 203

Stochastic Systems and Control II (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
16:00-16:20	FrC03.1
<i>Stochastic Nonholonomic Source Seeking (I)</i> , pp. 6985-6990.	
Liu, Shu-Jun	Southeast Univ.
Krstic, Miroslav	Univ. of California at San Diego
16:20-16:40	FrC03.2
<i>Structure Theorem for Six-Dimensional Estimation Algebras (I)</i> , pp. 6991-6996.	
Yau, Stephen S.-T.	Univ. of Illinois at Chicago
Jiao, Yang	Univ. of Illinois at Chicago
16:40-17:00	FrC03.3
<i>Option Pricing, Model Calibration, and Prediction with a Switchable Market: A Stochastic Approximation Algorithm (I)</i> , pp. 6997-7002.	
Yin, George	Wayne State Univ.
Yu, Jie	Roosevelt Univ.
Zhang, Qing	Univ. of Georgia
17:00-17:20	FrC03.4
<i>Estimating the State of a Markov Chain Over a Noisy Communication Channel: A Bound and an Encoder (I)</i> , pp. 7003-7008.	
Anand, M.	Univ. of Illinois at Urbana-Champaign
Kumar, P. R.	Univ. of Illinois, Urbana-Champaign
17:20-17:40	FrC03.5
<i>Consensus-Based Distributed Linear Filtering (I)</i> , pp. 7009-7014.	
Matei, Ion	Univ. of Maryland
Baras, John S.	Univ. of Maryland
17:40-18:00	FrC03.6
<i>Idempotent Expansions for Continuous-Time Stochastic Control: Compact Control Space (I)</i> , pp. 7015-7020.	
Kaise, Hidehiro	Nagoya Univ.
McEneaney, William	Univ. of California, San Diego

FrC04 Room 204

Developments in Optimal Control II (Invited Session)

Chair: Frankowska, Helene	Univ. Pierre et Marie Curie (Paris 6)
Co-Chair: Ledzewicz, Urszula	Southern Illinois Univ. at Edwardsville
Organizer: Frankowska, Helene	Univ. Pierre et Marie Curie (Paris 6)
Organizer: Ledzewicz, Urszula	Southern Illinois Univ. at Edwardsville
Organizer: Schaettler, Heinz M.	Washington Univ.
16:00-16:20	FrC04.1
<i>Multi-Dimensional Multi-Mode Systems: Structure and Optimal Control (I)</i> , pp. 7021-7026.	
Verriest, Erik I.	Georgia Inst. of Tech.
16:20-16:40	FrC04.2
<i>Image Reconstruction Via Optimal Control on the Bundle of Directions of the Plane (I)</i> , pp. 7027-7032.	
Boscain, Ugo V.	CNRS
Duplaix, Jean	USTV UMR LSIS CNRS 6168
Gauthier, Jean-Paul	Univ.
Rossi, Francesco	Univ. Paul Cézanne
16:40-17:00	FrC04.3
<i>Optimal Syntheses for State Constrained Problems and Optimization of Cancer Therapies (I)</i> , pp. 7033-7038.	
Piccoli, Benedetto	I.A.C.-C.N.R.
17:00-17:20	FrC04.4
<i>Bifurcation of Singular Arcs in an Optimal Control Problem for Cancer Immune System Interactions under Treatment (I)</i> , pp. 7039-7044.	
Ledzewicz, Urszula	Southern Illinois Univ. at Edwardsville
Naghnaeian, Mohammad	Southern Illinois Univ. Edwardsville
Schaettler, Heinz M.	Washington Univ.
17:20-17:40	FrC04.5
<i>Free Time and Mixed Constrained Optimal Control Problems (I)</i> , pp. 7045-7050.	
de Pinho, Maria do Rosario	Feup, Univ. do Porto
Silva, Geraldo Nunes	Univ. Estadual Paulista
17:40-18:00	FrC04.6
<i>Geometric Control for Autonomous Underwater Vehicles: Overcoming a Thruster Failure (I)</i> , pp. 7051-7056.	

Andonian, Michael
Invernizzi, Luca
Cazzaro, Dario
Chyba, Monique
Grammatico, Sergio

Univ. of Hawaii
Univ. of Pisa
Univ. of Pisa
Univ. of Hawaii
Department of Electrical Systems and Automation

FrC05

Room 205

Nonlinear Systems V (Regular Session)

- Chair: Jayawardhana, Bayu
Co-Chair: Tall, Issa Amadou
Univ. of Groningen
Southern Illinois Univ. Carbondale
- 16:00-16:20
Boundary Asymptotic Stabilizability of a Nonlinear Fluid Structure Interaction, pp. 7057-7062.
Lasiacka, Irena
Lu, Yongjin
Univ. of Virginia
Univ. of Virginia
FrC05.1
- 16:20-16:40
Fundamental Performance Limitations with Kullback-Leibler Control Cost, pp. 7063-7068.
Sun, Yu
Mehta, Prashant G.
Univ. of Illinois, Urbana-Champaign
Univ. of Illinois, Urbana-Champaign
FrC05.2
- 16:40-17:00
PD+ Attitude Control of Rigid Bodies with Improved Performance, pp. 7069-7074.
Schlanbusch, Rune
Loria, Antonio
Kristiansen, Raymond
Nicklasson, Per Johan
Narvik Univ. Coll.
LSS-SUPELEC
Narvik Univ. Coll.
Narvik Univ. Coll.
FrC05.3
- 17:00-17:20
Explicit State Linearization of Multi-Input Control Systems, pp. 7075-7080.
Tall, Issa Amadou
Southern Illinois Univ. Carbondale
FrC05.5
- 17:20-17:40
Dynamic Gain Scheduled Control in a Multi-Variable Control Framework, pp. 7081-7086.
Yang, Weiwei
Herrmann, Guido
Lowenberg, Mark
Chen, Xiaoqian
National Univ. of Defense Tech.
Univ. of Bristol
Univ. of Bristol
National Univ. of Defense Tech.
FrC05.6
- 17:40-18:00
Noninteracting Control of Nonlinear Systems Based on Relaxed Control, pp. 7087-7091.
Jayawardhana, Bayu
Univ. of Groningen

FrC06

Room 206

Algebraic/Geometric Methods II (Regular Session)

- Chair: Lee, Dongjun
Co-Chair: Jonckheere, Edmond A.
Univ. of Tennessee at Knoxville
Univ. of Southern California
- 16:00-16:20
On the Radius of Convergence of Self-Excited Feedback Connected Analytic Nonlinear Systems, pp. 7092-7098.
Gray, W. Steven
Thitsa, Makhin
Old Dominion Univ.
Old Dominion Univ.
FrC06.1
- 16:20-16:40
Linear Dynamically Varying Control Over Compact Riemannian Manifolds, pp. 7099-7104.
Jonckheere, Edmond A.
Bohacek, Stephan
Univ. of Southern California
Univ. of Delaware
FrC06.2
- 16:40-17:00
A Complete Characterization of Stabilization of Systems with One Degree of Underactuation with Energy Shaping Method, pp. 7105-7110.
Ghahesifard, Bahman
Univ. of California San Diego
FrC06.4
- 17:00-17:20
Optimal Control on Non-Compact Lie Groups: A Projection Operator Approach, pp. 7111-7116.
Saccon, Alessandro
Hauser, John
Aguiar, A. Pedro
Inst. Superior Técnico
Univ. of Colorado at Boulder
Inst. Superior Técnico, Tech. Univ. of Lisbon
FrC06.5
- 17:20-17:40
Input-State Matching under Piecewise Constant Control for Systems on Matrix Lie Groups, pp. 7117-7122.
Monaco, Salvatore
Normand-Cyrot, Marie-Dorothée
Di Giamberardino, Paolo
Univ. di Roma
CNRS-Supélec
Sapienza, Univ. di Roma
FrC06.6
- 17:40-18:00
Nonholonomic Passive Decomposition: Weak Decomposability, Controllability and Control Design, pp. 7123-7128.
Lee, Dongjun
Univ. of Tennessee at Knoxville

FrC07

Room 207

Cooperative Control V (Regular Session)

- Chair: Krishnaprasad, P. S.
Co-Chair: Lozano, Rogelio
Univ. of Maryland
Univ. de Tech.

16:00-16:20		FrC07.1
<i>Synchronization of Networked Higher-Order Nonlinear Systems with Unknown Dynamics</i> , pp. 7129-7134.		
Zhang, Hongwei		Univ. of Texas at Arlington
Lewis, Frank L.		Univ. of Texas at Arlington
16:20-16:40		FrC07.2
<i>Consensus in Bistable and Multistable Multi-Agent Systems</i> , pp. 7135-7140.		
Schmidt, Gerd Simon		Univ. of Stuttgart
Wu, Jingbo		Univ. of Stuttgart
Münz, Ulrich		Univ. of Stuttgart
Allgower, Frank		Univ. of Stuttgart
16:40-17:00		FrC07.3
<i>Cyclic Pursuit in Three Dimensions</i> , pp. 7141-7146.		
Galloway, Kevin		Univ. of Maryland
Justh, Eric		Naval Res. Lab.
Krishnaprasad, P. S.		Univ. of Maryland
17:00-17:20		FrC07.4
<i>Torus Problems in Jointly-Connected No-Beacon Networks</i> , pp. 7147-7152.		
Chen, Zhiyong		The Univ. of Newcastle
Zhang, Haitao		Huazhong (Central China) Univ. of Science and Technology
17:20-17:40		FrC07.5
<i>On Optimal Cooperative Patrolling</i> , pp. 7153-7158.		
Pasqualetti, Fabio		Univ. of California, Santa Barbara
Franchi, Antonio		Max Planck Inst. for Biological Cybernetics
Bullo, Francesco		Univ. California at Santa Barbara
17:40-18:00		FrC07.6
<i>Curved Trajectory Tracking for Surface Vessel Formations (I)</i> , pp. 7159-7165.		
Burger, Memout		NTNU
Pettersen, Kristin Y.		Norwegian Univ. of Science and Tech.

FrC08

Room 208

Autonomous Robots II (Regular Session)

Chair: Hu, Guoqiang		Kansas State Univ.
Co-Chair: Derenick, Jason C.		Univ. of Pennsylvania
16:00-16:20		FrC08.1
<i>Curvature-Continuous Trajectory Generation with Corridor Constraint for Autonomous Ground Vehicles</i> , pp. 7166-7171.		
Choi, Ji-wung		Univ. of California, Santa Cruz
Curry, Renwick		Applied Aeronautical Systems Inc.
Elkaim, Gabriel Hugh		UC Santa Cruz
16:20-16:40		FrC08.2
<i>A Semidefinite Programming Framework for Controlling Multi-Robot Systems in Dynamic Environments</i> , pp. 7172-7177.		
Derenick, Jason C.		Univ. of Pennsylvania
Spletzer, John		Lehigh Univ.
Kumar, Vijay		Univ. of Pennsylvania
16:40-17:00		FrC08.3
<i>Immuno-Inspired Heterogeneous Mobile Robotic Systems</i> , pp. 7178-7183.		
Raza, Ali		Univ. of Texas, Austin
Fernandez, Benito		The Univ. of Texas at Austin
17:00-17:20		FrC08.4
<i>Range-Sensor Based Navigation of a Unicycle-Like Mobile Robot in Cluttered Environments</i> , pp. 7184-7189.		
Matveev, Alexey S.		St.Petersburg Univ.
Teimoori Sangani, Hamid		Univ. of New South Wales
Savkin, Andrey		Univ. of New South Wales
17:20-17:40		FrC08.5
<i>Control of Uncertain Wheeled Mobile Robots with Slipping</i> , pp. 7190-7195.		
Dong, Wenjie		The Univ. of Texas - Pan American
17:40-18:00		FrC08.6
<i>Cost-Aware Bayesian Sequential Decision-Making for Domain Search and Object Classification</i> , pp. 7196-7201.		
Wang, Yue		Worcester Pol. Inst.
Hussein, Islam		Worcester Pol. Inst.
Brown, Donald		WPI
Erwin, Richard Scott		Air Force Res. Lab.

FrC09

Room 209

Nonlinear System Identification II (Regular Session)

Chair: Pelckmans, Kristiaan		Uppsala Univ.
Co-Chair: Schon, Thomas (Bo)		Linköping Univ.
16:00-16:20		FrC09.1
<i>Nuclear Norm Regularization for Overparametrized Hammerstein Systems</i> , pp. 7202-7207.		
Falck, Tillmann		K.U. Leuven
Suykens, J.A.K.		Katholieke Univ. Leuven

Schoukens, Johan De Moor, Bart L.R.	Vrije Univ. Brussels Katholieke Univ. Leuven
16:20-16:40 On the Identification of Monotone Wiener Systems , pp. 7208-7213.	FrC09.2
Pelckmans, Kristiaan	Uppsala Univ.
16:40-17:00 Identification of Nonlinear Systems Using Misspecified Predictors , pp. 7214-7219.	FrC09.3
Larsson, Christian A. Hjalmarsson, Håkan Rojas, Cristian R.	KTH Royal Inst. of Tech. ACCESS Linnaeus Center, KTH
17:00-17:20 On Optimal Input Design for Nonlinear FIR-Type Systems , pp. 7220-7225.	FrC09.4
Larsson, Christian A. Hjalmarsson, Håkan Rojas, Cristian R.	KTH Royal Inst. of Tech. ACCESS Linnaeus Center, KTH
17:20-17:40 Convergence Properties of an Iterative Prediction Approach to Nonlinear SEM Parameter Estimation , pp. 7226-7231.	FrC09.5
Farina, Marcello Piroddi, Luigi	Pol. di Milano Pol. di Milano
17:40-18:00 Convex Optimization in Identifying Cation of Stable Non-Linear State Space Models , pp. 7232-7237.	FrC09.6
Tobenkin, Mark Mercer Manchester, Ian R. Wang, Jennifer Megretski, Alexandre Tedrake, Russ	MIT Massachusetts Inst. of Tech. Massachusetts Inst. of Tech. Massachusetts Inst. of Tech. MIT

FrC10 Room 210

Distributed Control (Regular Session)

Chair: Shafai, Bahram Co-Chair: Rantzer, Anders	Northeastern Univ. Lund Univ.
16:00-16:20 Robust Distributed Control of Decomposable Systems with Switching Network Topology , pp. 7238-7244.	FrC10.1
Ghadami, Rasoul Shafai, Bahram	Northeastern Univ. Northeastern Univ.
16:20-16:40 Communication, Convergence, and Stochastic Stability in Self-Assembly , pp. 7245-7250.	FrC10.2
Fox, Michael J. Shamma, Jeff S.	Georgia Inst. of Tech. Georgia Inst. of Tech.
16:40-17:00 Iterative Distributed Model Predictive Control of Nonlinear Systems: Handling Delayed Measurements , pp. 7251-7258.	FrC10.3
Liu, Jinfeng Chen, Xianzhong Muñoz de la Peña, David Christofides, Panagiotis D.	Univ. of California, Los Angeles Univ. of California, Los Angeles Univ. de Sevilla Univ. of California at Los Angeles
17:00-17:20 Networked Clock Synchronization Based on Second Order Linear Consensus Algorithms , pp. 7259-7264.	FrC10.4
Carli, Ruggero Zampieri, Sandro	Univ. of Padova Univ. di Padova
17:20-17:40 Distributed Observer, Duality, and Optimal Regulator Design for Multi-Agent Systems , pp. 7265-7271.	FrC10.5
Das, Abhijit Lewis, Frank L.	Univ. of Texas at Arlington Univ. of Texas at Arlington
17:40-18:00 Distributed Model Predictive Control with Suboptimality and Stability Guarantees , pp. 7272-7277.	FrC10.6
Giselsson, Pontus Rantzer, Anders	Lund Univ. Lund Univ.

FrC11 Room 211

Scalable Methods for Design, Analysis and Control of Networked Systems (Invited Session)

Chair: Speranzon, Alberto Co-Chair: Surana, Amit Organizer: Speranzon, Alberto Organizer: Surana, Amit	United Tech. Res. Center United Tech. Res. Center United Tech. Res. Center United Tech. Res. Center
16:00-16:20 Scalable Uncertainty Quantification in Complex Dynamic Networks (I) , pp. 7278-7285.	FrC11.1
Surana, Amit Banaszuk, Andrzej	United Tech. Res. Center United Tech. Res. Center
16:20-16:40 Pairwise Optimal Discrete Coverage Control for Gossiping Robots (I) , pp. 7286-7291.	FrC11.2

Durham, Joseph W. Carli, Ruggero Bullo, Francesco	Uni of California at Santa Barbara Univ. of Padova Univ. California at Santa Barbara
16:40-17:00 <i>Uniform Coverage Control of Mobile Sensor Networks for Dynamic Target Detection (I)</i> , pp. 7292-7299.	FrC11.3
Mathew, George Surana, Amit Mezic, Igor	United Tech. Res. Centre, Inc., Berkeley, CA United Tech. Res. Center Univ. of California, Santa Barbara
17:00-17:20 <i>The Use of Ergodic Theory in Designing Dynamics for Search Problems (I)</i> , pp. 7300-7307.	FrC11.4
Mohr, Ryan Mezic, Igor	Univ. of California, Santa Barbara Univ. of California, Santa Barbara
17:20-17:40 <i>Wave Equation Based Algorithm for Distributed Eigenvector Computation (I)</i> , pp. 7308-7315.	FrC11.5
Sahai, Tuhin Speranzon, Alberto Banaszuk, Andrzej	United Tech. Res. Center United Tech. Res. Center United Tech. Res. Center
17:40-18:00 <i>Wave Control in the Lattices of Linear Oscillators</i> , pp. 7316-7321.	FrC11.6
Efimov, Denis Fradkov, Alexander	Inst. for Problems of Mechanical Eng. Inst. for Problems of Mech. Eng.

FrC12

Room 212

Stability of Switched Systems and the Joint Spectral Radius (Invited Session)

Chair: Mason, Paolo Co-Chair: Jungers, Raphaël M. Organizer: Mason, Paolo	CNRS, Lab. des Signaux et Systèmes, Supélec Univ. of Louvain CNRS, Lab. des Signaux et Systèmes, Supélec
16:00-16:20 <i>On the Marginal Instability of Linear Switched Systems (I)</i> , pp. 7322-7327.	FrC12.1
Chitour, Yacine Mason, Paolo Sigalotti, Mario	Univ. Paris-Sud, CNRS, Supélec CNRS, Lab. des Signaux et Systèmes, Supélec INRIA Nancy - Grand Est
16:20-16:40 <i>Weak Stability of Switching Dynamical Systems and Fast Computation of the P-Radius of Matrices (I)</i> , pp. 7328-7333.	FrC12.2
Jungers, Raphaël M. Protasov, Vladimir	MIT Moscow State Univ.
16:40-17:00 <i>Preservation of Common Quadratic Lyapunov Functions and Padé Approximations (I)</i> , pp. 7334-7338.	FrC12.3
Sajja, Surya Shraavan Kumar Solmaz, Selim Shorten, Robert Corless, Martin J.	NUI Maynooth Hamilton Inst. National Univ. of Ireland-Maynooth Nat. Univ. of Ireland Purdue Univ.
17:00-17:20 <i>A Result on the Existence of Quadratic Lyapunov Functions for State-Dependent Switched Systems with Uncertainty (I)</i> , pp. 7339-7344.	FrC12.4
King, Christopher Griggs, Wynita M. Shorten, Robert	Northeastern Univ. National Univ. of Ireland, Maynooth Nat. Univ. of Ireland
17:20-17:40 <i>On Infinity Control Design of Continuous-Time Switched Linear Systems (I)</i> , pp. 7345-7350.	FrC12.5
Deaecto, Grace S. Geromel, Jose C. Daafouz, Jamal	UNICAMP UNICAMP CRAN, UMR CNRS - Nancy Univ.
17:40-18:00 <i>Passivity-Based Output Synchronization of Dynamical Networks with Non-Identical Nodes</i> , pp. 7351-7356.	FrC12.6
Zhao, Jun Hill, David J. Liu, Tao	The Australian National Univ. The Australian National Univ. The Australian National Univ.

FrC13

Room 213

Filtering and Estimation V (Regular Session)

Chair: Chakravorty, Suman Co-Chair: Schon, Thomas (Bo)	Texas A&M Univ. Linköping Univ.
16:00-16:20 <i>A Nonlinear Filter Based on Fokker Planck Equation and MCMC Measurement Updates</i> , pp. 7357-7362.	FrC13.1
Kumar, Mrinal Chakravorty, Suman	Univ. of Florida Texas A&M Univ.
16:20-16:40 <i>Infinite-Dimensional Sampled-Data Kalman Filter</i> , pp. 7363-7368.	FrC13.2
Sallberg, Scott A. Maybeck, Peter S. Oxley, Mark E.	MZA Associates Corp. AFIT / ENG Air Force Inst. of Tech.

16:40-17:00		FrC13.3
Extending the IMM Filter to Heterogeneous-Order State Space Models , pp. 7369-7374.		
Lopez, Remy	Univ. de Toulouse, LAAS, UPS & Coll. Localisation Satell	
Danes, Patrick	LAAS-CNRS	
Royer, François	Coll. Localisation Satellites	
17:00-17:20		FrC13.4
Sample Path Large Deviations for the Randomly Sampled Continuous-Discrete Kalman Filter , pp. 7375-7382.		
Kar, Soumya	Carnegie Mellon Univ.	
Moura, Jose' M. F.	Carnegie Mellon Univ.	
Ramanan, Kavita	Brown Univ.	
17:20-17:40		FrC13.5
Decentralization of Particle Filters Using Arbitrary State Decomposition , pp. 7383-7388.		
Chen, Tianshi	Linköping Univ. Sweden	
Schon, Thomas (Bo)	Linköping Univ.	
Ohlsson, Henrik	Linköping Univ.	
Ljung, Lennart	Linköping Univ.	
17:40-18:00		FrC13.6
A New Form of the Smooth Variable Structure Filter with a Covariance Derivation , pp. 7389-7394.		
Gadsden, Stephen Andrew	McMaster Univ.	
Habibi, Saeid	McMaster Univ.	

FrC14 Room 214

Robust Stability of Large-Scale Interconnections II (Invited Session)

Chair: Dashkovskiy, Sergey	Univ. of Bremen	
Co-Chair: Ruffer, Björn Sebastian	Univ. of Melbourne	
Organizer: Dashkovskiy, Sergey	Univ. of Bremen	
Organizer: Ruffer, Björn Sebastian	Univ. of Melbourne	
16:00-16:20		FrC14.1
Control of Large 1D Networks of Double Integrator Agents: Role of Heterogeneity and Asymmetry on Stability Margin , pp. 7395-7400.		
Barooh, Prabir	Univ. of Florida	
Hao, He	Univ. of Florida	
16:20-16:40		FrC14.2
Necessary Conditions for Stability of Networks of liss Systems (I) , pp. 7401-7406.		
Ito, Hiroshi	Kyushu Inst. of Tech.	
16:40-17:00		FrC14.3
Razumikhin-Type Small-Gain Theorems for Large-Scale Systems with Delays (I) , pp. 7407-7412.		
Tiwari, Shanaz	Florida Atlantic Univ.	
Wang, Yuan	Florida Atlantic Univ.	
17:00-17:20		FrC14.4
Computing Asymptotic Gains of Large-Scale Interconnections (I) , pp. 7413-7418.		
Ruffer, Björn Sebastian	Univ. of Melbourne	
Ito, Hiroshi	Kyushu Inst. of Tech.	
Dower, Peter M.	The Univ. of Melbourne	
17:20-17:40		FrC14.5
Asymptotic Stability for Hybrid Systems Via Decomposition, Dissipativity, and Detectability (I) , pp. 7419-7424.		
Teel, Andrew R.	Univ. of California at Santa Barbara	
17:40-18:00		FrC14.6
Nash Equilibrium and Robust Stability in Dynamic Games: A Small-Gain Perspective (I) , pp. 7425-7430.		
Karafyllis, Iasson	Tech. Univ. of Crete	
Jiang, Zhong-Ping	Pol. Inst. NYU	
Athanasiou, George	TT Hellenic Bank	

FrC15 Room 301

Agents and Autonomous Systems VI (Regular Session)

Chair: Doyle, Francis	Univ. of California at Santa Barbara	
Co-Chair: Huang, Minyi	Carleton Univ.	
16:00-16:20		FrC15.1
Optimal Pursuit of Moving Targets Using Dynamic Voronoi Diagrams , pp. 7431-7436.		
Bakolas, Efstathios	Georgia Inst. of Tech.	
Tsiotras, Panagiotis	Georgia Inst. of Tech.	
16:20-16:40		FrC15.2
The Influences of Global and Local Cues on the Synchronization Rate of Interconnected Oscillator Networks Subject to Time Delays , pp. 7437-7442.		
Wang, Yongqiang	Univ. of California, Santa Barbara	
Doyle, Francis	Univ. of California at Santa Barbara	
16:40-17:00		FrC15.3
Adaptive Sensing for Search with Continuous Actions and Observations , pp. 7443-7448.		
Hitchings, Darin	Boston Univ.	
Castanon, David A.	Boston Univ.	
17:00-17:20		FrC15.4

<i>Stochastic Approximation for Consensus with General Time-Varying Weight Matrices</i> , pp. 7449-7454.	Carleton Univ.
Huang, Minyi	
17:20-17:40	FrC15.5
<i>Two-Stage Time-Optimal Formation Reconfiguration Strategy under Acceleration and Velocity Constraints</i> , pp. 7455-7460.	
Ajorlou, Amir	Concordia Univ.
Moezzi, Kaveh	Concordia Univ.
Aghdam, Amir G.	Concordia Univ.
Nersesov, Sergey G.	Villanova Univ.
17:40-18:00	FrC15.6
<i>Maintaining Connectivity among Multiple Agents in Cyclic Pursuit: A Geometric Approach</i> , pp. 7461-7466.	
Morbidi, Fabio	Univ. of Siena
Giannitrapani, Antonio	Univ. di Siena
Prattichizzo, Domenico	Univ. of Siena

FrC16 Room 302

Ergodicity and Consensus Over Dynamic Networked Multi-Agent Systems (Invited Session)

Chair: Nedich, Angelia	Univ. of Illinois, Urbana-Champaign
Co-Chair: Mesbahi, Mehran	Univ. of Washington
Organizer: Nedich, Angelia	Univ. of Illinois, Urbana-Champaign
16:00-16:20	FrC16.1
<i>Asymmetric Information Diffusion Via Gossiping on Static and Dynamic Networks (I)</i> , pp. 7467-7472.	
Yildiz, Mehmet Ercan	MIT
Scaglione, Anna	UC Davis
Ozdaglar, Asuman	MIT
16:20-16:40	FrC16.2
<i>Semi-Autonomous Networks: Network Resilience and Adaptive Trees (I)</i> , pp. 7473-7478.	
Chapman, Airlie	Univ. of Washington
Mesbahi, Mehran	Univ. of Washington
16:40-17:00	FrC16.3
<i>When Infinite Flows Sufficient for Ergodicity (I)</i> , pp. 7479-7486.	
Touri, Behrouz	Univ. of Illinois, Urbana-Champaign
Nedich, Angelia	Univ. of Illinois, Urbana-Champaign
17:00-17:20	FrC16.4
<i>An Approximate Dual Subgradient Algorithm for Multi-Agent Non-Convex Optimization (I)</i> , pp. 7487-7492.	
Zhu, Minghui	Univ. of California, San Diego
Martinez, Sonia	Univ. of California at San Diego
17:20-17:40	FrC16.5
<i>On Asymptotic Consensus Value in Directed Random Networks (I)</i> , pp. 7493-7498.	
Preciado, Victor M.	Univ. of Pennsylvania
Tahbaz-Salehi, Alireza	Massachusetts Inst. of Tech.
Jadbabaie, Ali	Univ. of Pennsylvania
17:40-18:00	FrC16.6
<i>Geometric Ergodicity of the Distributional Consensus Problem in Vehicle Network Control</i> , pp. 7499-7506.	
Xu, Bin	Virginia Tech.
Kurdila, Andrew J.	Virginia Tech.
Stilwell, Daniel J.	Virginia Pol. Inst. & State Univ.

FrC17 Room 303

Optimal Control IV (Regular Session)

Chair: Allgower, Frank	Univ. of Stuttgart
Co-Chair: Andersson, Sean	Boston Univ.
16:00-16:20	FrC17.1
<i>Optimal Control of Context-Sensitive Probabilistic Boolean Networks Using Integer Programming</i> , pp. 7507-7512.	
Kobayashi, Koichi	Japan Adv Inst. of Sci & Tech.
Hiraishi, Kunihiro	JAIST
16:20-16:40	FrC17.2
<i>Optimal Discharge and Recharge Control of Battery-Powered Energy-Aware Systems</i> , pp. 7513-7518.	
Wang, Tao	Boston Univ.
Cassandras, Christos G.	Boston Univ.
16:40-17:00	FrC17.3
<i>A Numerical Method for the Optimal Control of Switched Systems</i> , pp. 7519-7526.	
Gonzalez, Humberto	Univ. of California, Berkeley
Vasudevan, Ramanarayan	Univ. of California Berkeley
Kamgarpour, Maryam	Univ. of California, Berkeley
Sastry, Shankar	Univ. of California at Berkeley
Bajcsy, Ruzena	Univ. of Pennsylvania
Tomlin, Claire J.	UC Berkeley
17:00-17:20	FrC17.4
<i>Optimality and Performance Limitations of Analog to Digital Converters</i> , pp. 7527-7532.	
Osqui, Mitra	Massachusetts Inst. of Tech.
Megretski, Alexandre	Massachusetts Inst. of Tech.

Roozbehani, Mardavij	Massachusetts Inst. of Tech.
17:20-17:40	FrC17.5
<i>The Potential of Economic MPC for Power Management</i> , pp. 7533-7538.	
Hovgaard, Tobias Gybel	Tech. Univ. of Denmark
Edlund, Kristian	DONG Energy
Jørgensen, John Bagterp	Tech. Univ. of Denmark
17:40-18:00	FrC17.6
<i>A Simulation Based MPC Technique for Feedback Linearizable Systems with Input Constraints</i> , pp. 7539-7544.	
Margellos, Kostas	ETH Zurich
Lygeros, John	ETH Zurich

FrC18 Room 304

Networked Control Systems IV (Regular Session)

Chair: Silvestre, Carlos	Inst. Superior Tecnico
Co-Chair: Netic, Dragan	Univ. of Melbourne
16:00-16:20	FrC18.1
<i>Mobility and Routing Control in Networks of Robots</i> , pp. 7545-7550.	
Zavlanos, Michael M.	Stevens Inst. of Tech.
Ribeiro, Alejandro	Univ. of Pennsylvania
Pappas, George J.	Univ. of Pennsylvania
16:20-16:40	FrC18.2
<i>Limitations of Nonlinear Stabilization Over Erasure Channels</i> , pp. 7551-7556.	
Vaidya, Umesh	Iowa State Univ.
Elia, Nicola	Iowa State Univ.
16:40-17:00	FrC18.3
<i>Stability Analysis for Nonlinear Networked Control Systems: A Discrete-Time Approach</i> , pp. 7557-7563.	
Van De Wouw, Nathan	Eindhoven Univ. of Tech.
Netic, Dragan	Univ. of Melbourne
Heemels, Maurice	Eindhoven Univ. of Tech.
17:00-17:20	FrC18.4
<i>On Anytime Control of Nonlinear Processes through Calculation of Control Sequences</i> , pp. 7564-7569.	
Gupta, Vijay	Univ. of Notre Dame
Quevedo, Daniel E.	The Univ. of Newcastle
17:20-17:40	FrC18.5
<i>Performance Prediction in Uncertain Networked Control Systems Using L1-Adaptation-Based Distributed Event-Triggering</i> , pp. 7570-7575.	
Wang, Xiaofeng	Univ. of Illinois at Urbana-Champaign
Hovakimyan, Naira	Univ. of Illinois, Urbana-Champaign
17:40-18:00	FrC18.6
<i>The Wireless Control Network: Synthesis and Robustness</i> , pp. 7576-7581.	
Pajic, Miroslav	Univ. of Pennsylvania
Sundaram, Shreyas	Univ. of Waterloo
Le Ny, Jerome	Univ. of Pennsylvania
Pappas, George J.	Univ. of Pennsylvania
Mangharam, Rahul	Univ. of Pennsylvania

FrC19 Room 305

Sampled-Data Control (Regular Session)

Chair: Oishi, Yasuaki	Nanzan Univ.
Co-Chair: Laila, Dina Shona	Kingston Univ. London
16:00-16:20	FrC19.1
<i>A Pseudo-Multirate Implementation of Digital Systems for Improved Performance</i> , pp. 7582-7587.	
Leva, Alberto	Pol. di Milano
Piroddi, Luigi	Pol. di Milano
16:20-16:40	FrC19.2
<i>Self-Triggered State Feedback Control of Linear Plants under Bounded Disturbances</i> , pp. 7588-7593.	
Almeida, João	Inst. Superior Técnico
Silvestre, Carlos	Inst. Superior Tecnico
Pascoal, Antonio Manuel	Inst. Superior Tecnico
16:40-17:00	FrC19.3
<i>Average Passivity for Discrete-Time and Sampled-Data Linear Systems</i> , pp. 7594-7599.	
Tiefensee, Fernando	CNRS - Supelec - Univ. Paris XI-Sud
Monaco, Salvatore	Univ. di Roma
Normand-Cyrot, Marie-Dorothee	CNRS-Supélec
17:00-17:20	FrC19.4
<i>On the Robustness of Sampled-Data Systems to Uncertainty in Continuous-Time Delays</i> , pp. 7600-7605.	
Alterman, Igal	Tech. – IIT
Mirkin, Leonid	Tech.
17:20-17:40	FrC19.5
<i>Synthesis of Embedded Control Systems with High Sampling Frequencies</i> , pp. 7606-7612.	
Lavaei, Javad	California Inst. of Tech.

Sojoudi, Somayeh	California Inst. of Tech.
Murray, Richard M.	California Inst. of Tech.
17:40-18:00	FrC19.6
<i>Passivity Degradation under the Discretization with the Zero-Order Hold and the Ideal Sampler</i> , pp. 7613-7617.	
Oishi, Yasuaki	Nanzan Univ.
FrC20	Room 306
Modeling III (Regular Session)	
Chair: Lagoa, Constantino M.	Pennsylvania State Univ.
Co-Chair: Silvestre, Carlos	Inst. Superior Tecnico
16:00-16:20	FrC20.1
<i>Discrete-Time Models for Gene Transcriptional Regulation Networks</i> , pp. 7618-7623.	
Cacace, Filippo	Univ. Campus Biomedico di Roma
Germani, Alfredo	Univ. dell'Aquila
Farina, Lorenzo	Univ. Di Roma "la Sapienza
Palumbo, Pasquale	IAS-CNR
16:20-16:40	FrC20.2
<i>Model (In)validation of Switched ARX Systems with Unknown Switches and Its Application to Activity Monitoring</i> , pp. 7624-7630.	
Ozay, Necmiye	Northeastern Univ.
Sznaier, Mario	Northeastern Univ.
Lagoa, Constantino M.	Pennsylvania State Univ.
16:40-17:00	FrC20.3
<i>Estimating Turbulent Phase Characteristics in MCAO Systems</i> , pp. 7631-7636.	
Beghi, Alessandro	Univ. di Padova
Cenedese, Angelo	Univ. of Padova
Masiero, Andrea	Univ. di Padova
17:00-17:20	FrC20.4
<i>On Methods for Automated Modeling of Dynamic Systems with Friction and Their Application to Electro-Mechanical Throttles</i> , pp. 7637-7642.	
Ren, Zhenxing	Univ. of Kassel
Kroll, Andreas	Univ. of Kassel
Sofsky, Manfred	IAV GmbH
Laubenstein, Friedhelm	IAV GmbH
17:20-17:40	FrC20.5
<i>Integrated Dynamic Optimization and Control in Reservoir Engineering Using Locally Identified Linear Models</i> , pp. 7643-7648.	
van Essen, Gijs	Delft Univ. of Tech.
Rezapour, Amin	Delft Univ. of Tech.
Van den Hof, Paul M.J.	Delft Univ. of Tech.
Jansen, Jan Dirk	Delft Univ. of Tech.
17:40-18:00	FrC20.6
<i>Alternating Approximately Bisimilar Symbolic Models for Nonlinear Control Systems with Unknown Time-Varying Delays (I)</i> , pp. 7649-7654.	
Pola, Giordano	Univ. of L'Aquila
Pepe, Pierdomenico	Univ. of L' Aquila
Di Benedetto, M. Domenica	Univ. of L'Aquila
FrC21	Room 307
Randomized Algorithms (Regular Session)	
Chair: Ishii, Hideaki	Tokyo Inst. of Tech.
Co-Chair: Fujisaki, Yasumasa	Kobe Univ.
16:00-16:20	FrC21.1
<i>Random Projection Algorithms for Convex Set Intersection Problems</i> , pp. 7655-7660.	
Nedich, Angelia	Univ. of Illinois, Urbana-Champaign
16:20-16:40	FrC21.2
<i>Persistent Patrol with Limited-Range On-Board Sensors</i> , pp. 7661-7668.	
Huynh, Vu	MIT
Enright, John	Massachusetts Inst. of Tech.
Frazzoli, Emilio	Massachusetts Inst. of Tech.
16:40-17:00	FrC21.3
<i>Convergence Time Analysis of Quantized Gossip Algorithms on Digraphs</i> , pp. 7669-7674.	
Cai, Kai	Tokyo Inst. of Tech.
Ishii, Hideaki	Tokyo Inst. of Tech.
17:00-17:20	FrC21.4
<i>Randomized Sampling for Large Zero-Sum Games</i> , pp. 7675-7680.	
Bopardikar, Shaunak D.	Univ. of California, Santa Barbara
Borri, Alessandro	Univ. of L'Aquila
Hespanha, Joao P.	Univ. of California, Santa Barbara
Prandini, Maria	Pol. di Milano
Di Benedetto, M. Domenica	Univ. of L'Aquila
17:20-17:40	FrC21.5
<i>Optimal Kinodynamic Motion Planning Using Incremental Sampling-Based Methods</i> , pp. 7681-7687.	
Karaman, Sertac	Massachusetts Inst. of Tech.

Frazzoli, Emilio	Massachusetts Inst. of Tech.
17:40-18:00	FrC21.6
<i>Adaptive Sampling for Generalized Sampling Based Motion Planners</i> , pp. 7688-7693.	
Kumar, Sandip	Texas A&M Univ.
Chakravorty, Suman	Texas A&M Univ.
FrC22	Room 308
Linear Systems IV (Regular Session)	
Chair: Werner, Herbert	Hamburg Univ. of Tech.
Co-Chair: Manes, Costanzo	Univ. dell'Aquila
16:00-16:20	FrC22.1
<i>Controller Synthesis for Input-Output LPV Models</i> , pp. 7694-7699.	
Ali, Mukhtar	Tech. Univ. Hamburg Harburg (TUHH)
Abbas, Hossam Seddik	Assiut Uinveristy
Werner, Herbert	Hamburg Univ. of Tech.
16:20-16:40	FrC22.2
<i>L2 Optimization in Discrete FIR Estimation: Exploiting State-Space Structure</i> , pp. 7700-7705.	
Levinson, Yaron	Tech. – IIT
Mirkin, Leonid	Tech.
16:40-17:00	FrC22.3
<i>Linear Minimum Mean Square Filter for Discrete-Time Linear Systems with Multiplicative Noise</i> , pp. 7706-7711.	
Costa, Oswaldo Luiz V.	Univ. of Sao Paulo
Benites, Guilherme	Univ. of Sao Paulo
17:00-17:20	FrC22.4
<i>Chaotic Synchronization of Labyrinth Systems</i> , pp. 7712-7717.	
Ding, Ke	Central Queensland Univ.
Han, Qing-Long	Central Queensland Univ.
17:20-17:40	FrC22.5
<i>Normalized Coprime Representations for Time-Varying Linear Systems</i> , pp. 7718-7723.	
Mueller, Markus	Univ. of Exeter
Cantoni, Michael	Univ. of Melbourne
17:40-18:00	FrC22.6
<i>A Geometric Approach to Fault Detection and Isolation Problem for Linear Periodic Systems</i> , pp. 7724-7729.	
Longhi, Sauro	Univ. Pol. delle Marche
Monteriù, Andrea	Univ. Pol. delle Marche
FrC23	Grand Salon A
Behavioral Systems (Regular Session)	
Chair: Trentelman, Harry L.	Univ. of Groningen
Co-Chair: Willems, Jan C.	K.U. Leuven
16:00-16:20	FrC23.1
<i>An Achievability Condition for N-Dimensional Behaviors with a Finite Frequency Specification: Dissipation Inequalities Approach</i> , pp. 7730-7735.	
Kojima, Chiaki	Univ. of Tokyo
Hara, Shinji	The Univ. of Tokyo
16:20-16:40	FrC23.2
<i>New Results on Equivalence of Rational Representations of Behaviors</i> , pp. 7736-7741.	
Gottimukkala, Sasanka V.	Univ. of Groningen, The Netherlands
Trentelman, Harry L.	Univ. of Groningen
Fiaz, Shaik	Univ. of Groningen
16:40-17:00	FrC23.3
<i>On the Elimination of Latent Variables in L2 Behaviors</i> , pp. 7742-7747.	
Mutsaers, Mark	Eindhoven Univ. of Tech.
Weiland, Siep	Eindhoven Univ. of Tech.
17:00-17:20	FrC23.4
<i>The Internal Model Principle: Asymptotic Tracking and Regulation in the Behavioral Framework</i> , pp. 7748-7753.	
Fiaz, Shaik	Univ. of Groningen
Takaba, Kiyotsugu	Kyoto Univ.
Trentelman, Harry L.	Univ. of Groningen
17:20-17:40	FrC23.5
<i>The Behavior of Linear Time Invariant RLC Circuits</i> , pp. 7754-7758.	
Verriest, Erik I.	Georgia Inst. of Tech.
Willems, Jan C.	K.U. Leuven
17:40-18:00	FrC23.6
<i>The Decentralized Implementability Problem</i> , pp. 7759-7764.	
Fiaz, Shaik	Univ. of Groningen
Trentelman, Harry L.	Univ. of Groningen