

2014 IEEE 53rd Annual Conference on Decision and Control

(CDC 2014)

**Los Angeles, California, USA
15-17 December 2014**

Pages 1-841



**IEEE Catalog Number: CFP14CDC-POD
ISBN: 978-1-4673-6089-0**

Technical Program of the 53rd IEEE Conference on Decision and Control

Technical Program for Monday December 15, 2014

MoPL	Salon D and E		
Hybrid Systems: Analysis and Control (Plenary Session)			
Chair: Teel, Andrew R.	Univ. of California, Santa Barbara	Polyakov, Andrey	Inria Lille Nord-Europe
Co-Chair: Jabbari, Faryar	Univ. of California, Irvine	Perruquetti, Wilfrid	Ec. Centrale De Lille
08:30-09:30	MoPL.1	Richard, Jean-Pierre	Ec. Centrale De Lille
<i>Hybrid Systems: Analysis and Control*</i>			
Tomlin, Claire J.	Univ. of California, Berkeley	Hamzi, Boumediene	Imperial Coll. London
		Abed, Eyad H.	Univ. of Maryland
MoA01	Salon F		
Hybrid Systems I (Regular Session)			
Chair: Broucke, Mireille E.	Univ. of Toronto	Rivera, Phillip	Massachusetts Inst. of Tech
Co-Chair: Manchester, Ian R.	Univ. of Sydney	Del Vecchio, Domitilla	Massachusetts Inst. of Tech
10:00-10:20	MoA01.1		
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Diene, Oumar	Federal Univ. of Rio De Janeiro	Franci, Alessio	Univ. of Cambridge
dos Reis Silva, Eduardo	Federal Univ. of Rio De Janeiro	Sepulchre, Rodolphe J.	Univ. of Cambridge
Alexandre			
Moreira, Marcos Vicente	Federal Univ. of Rio De Janeiro		
10:20-10:40	MoA01.2		
<i>Optimal Exploration and Control for a Robotic Pick-Up and Delivery Problem</i> , pp. 7-12.			
Nenchev, Vladislav	Tech. Univ. Berlin	Jiang, Jingjing	Imperial Coll. London
Cassandras, Christos G.	Boston Univ	Astolfi, Alessandro	Imperial Coll. & Univ. of Rome
10:40-11:00	MoA01.3		
<i>Reach Control Problem with Disturbance Rejection</i> , pp. 13-18.			
Kroeze, Zachary	Univ. of Toronto	Kimmel, Melanie	Tech. Univ. München
Broucke, Mireille E.	Univ. of Toronto	Hirche, Sandra	Tech. Univ. München
11:00-11:20	MoA01.4		
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Pakniyat, Ali	McGill Univ		
Caines, Peter E.	McGill Univ		
11:20-11:40	MoA01.5		
<i>A Reach Control Approach to Bumpless Transfer of Robotic Manipulators</i> , pp. 25-30.			
Martino, Matthew	Univ. of Toronto	Guo, Meng	Royal Inst. of Tech.
Broucke, Mireille E.	Univ. of Toronto	Tumova, Jana	Royal Inst. of Tech
11:40-12:00	MoA01.6	Dimarogonas, Dimos V.	Royal Inst. of Tech
<i>Transverse Contraction Criteria for Stability of Nonlinear Hybrid Limit Cycles</i> , pp. 31-36.			
Tang, Justin Z.	Univ. of Sydney	Raman, Vasumathi	California Inst. of Tech
Manchester, Ian R.	Univ. of Sydney	Donze, Alexandre	Univ. of California, Berkeley
MoA02	Salon G		
Nonlinear Systems I (Regular Session)			
Chair: Efimov, Denis	INRIA - LNE	Maasoumy, Mehdi	Univ. of California, Berkeley
Co-Chair: Franci, Alessio	Cambridge Univ.	Murray, Richard M.	California Inst. of Tech
10:00-10:20	MoA02.1	Sangiovanni-Vincentelli, Alberto	Univ. of California, Berkeley
<i>Stability Analysis for Nonlinear Time-Delay Systems Applying Homogeneity</i> , pp. 37-42.		Sesha, Sanjit	Univ. of California, Berkeley
Efimov, Denis	Inria - Lne		

10:40-11:00	MoA03.3
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Reissig, Gunther	Univ. of the Federal Armed Forces Munich
Rungger, Matthias	Univ. of California at Los Angeles
11:00-11:20	MoA03.4
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Zamani, Majid	Tech. Univ. München
Mazo Jr., Manuel	Delft Univ. of Tech
Abate, Alessandro	Univ. of Oxford
11:20-11:40	MoA03.5
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Livingston, Scott C.	California Inst. of Tech
Murray, Richard M.	California Inst. of Tech
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Aydin Gol, Ebru	Boston Univ
Bartocci, Ezio	Vienna Univ. of Tech
Belta, Calin	Boston Univ
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Chair: Batista, Pedro	Inst. Superior Técnico, Univ. de Lisboa
Co-Chair: Hamel, Tarek	Univ. de Nice Sophia Antipolis
10:00-10:20	MoA04.1
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Khosrovian, Alireza	Australian National Univ
Trumpf, Jochen	Australian National Univ
Mahony, Robert	Australian National Univ
Hamel, Tarek	Univ. De Nice Sophia Antipolis
10:20-10:40	MoA04.2
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Batista, Pedro	Inst. Superior Técnico
Silvestre, Carlos	Univ. of Macau
Oliveira, Paulo Jorge	Inst. Superior Técnico
10:40-11:00	MoA04.3
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Batista, Pedro	Inst. Superior Técnico
Silvestre, Carlos	Univ. of Macau
Oliveira, Paulo Jorge	Inst. Superior Técnico
11:00-11:20	MoA04.4
<i>Nonlinear Observability and Observer Design through State Augmentation, pp. 133-138.</i>	
Viegas, Daniel	Inst. Superior Técnico
Batista, Pedro	Inst. Superior Técnico
Oliveira, Paulo Jorge	Inst. Superior Técnico
Silvestre, Carlos	Univ. of Macau
11:20-11:40	MoA04.5
<i>State Estimation Strategy without Jump Detection for Hybrid Systems Using Gluing Function, pp. 139-144.</i>	
Kim, Jisu	Seoul National Univ
Cho, Hansung	Seoul National Univ
Shamsuarov, Artem	Samsung Electronics
Shim, Hyungbo	Seoul National Univ
Seo, Jin H.	Seoul National Univ
11:40-12:00	MoA04.6
<i>Observer Design for Differentiable Lipschitz Nonlinear Systems with Time-Varying Parameters, pp. 145-152.</i>	
Wang, Yan	Auburn Univ
Rajamani, Rajesh	Univ. of Minnesota
Bevly, David M.	Auburn Univ
MoA05	Salon J
Large Scale and Distributed Optimization (Invited Session)	
Chair: Nedich, Angelia	Univ. of Illinois, Urbana-Champaign
Co-Chair: Srikant, R	Univ. of Illinois, Urbana-Champaign
Organizer: Nedich, Angelia	Univ. of Illinois, Urbana-Champaign
Organizer: Srikant, R	Univ. of Illinois, Urbana-Champaign
10:00-10:20	MoA05.1
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Feyzmahdavian, Hamid Reza	Royal Inst. of Tech. (KTH)
Johansson, Mikael	Royal Inst. of Tech. (KTH)
10:20-10:40	MoA05.2
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Saunderson, James	Massachusetts Inst. of Tech
Parrilo, Pablo A.	Massachusetts Inst. of Tech
Willsky, Alan S.	Massachusetts Inst. of Tech
10:40-11:00	MoA05.3
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Peng, Qiuyu	California Inst. of Tech
Low, Steven H.	California Inst. of Tech
11:00-11:20	MoA05.4
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Wilson, Craig	Univ. of Illinois, Urbana-Champaign
Veeravalli, Venugopal V.	Univ. of Illinois, Urbana-Champaign
Nedich, Angelia	Univ. of Illinois, Urbana-Champaign
11:20-11:40	MoA05.5
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Tutunov, Rasul	Univ. of Pennsylvania
Zargham, Michael	Univ. of Pennsylvania
Jadbabaie, Ali	Univ. of Pennsylvania

11:40-12:00	MoA05.6	
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Singh, Chandramani Nedich, Angelia Srikant, R	Indian Inst. of Sciecn Univ. of Illinois, Urbana-Champaign Univ. of Illinois, Urbana-Champaign	
MoA06	Salon 6	
New Control Approach for Power Networks (Invited Session)		
Chair: Chen, Lijun Co-Chair: Low, Steven H. Organizer: Chen, Lijun Organizer: Low, Steven H.	Univ. of Colorado at Boulder California Inst. of Tech. Univ. of Colorado at Boulder California Inst. of Tech.	
10:00-10:20	MoA06.1	
<i>Reverse and Forward Engineering of Frequency Control in Power Networks (I)</i> , pp. 191-198.		
You, Seungil Chen, Lijun	California Inst. of Tech. Univ. of Colorado at Boulder	
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Yang, Lei He, Miao Vittal, Vijay Zhang, Junshan	Arizona State Univ Texas Tech. Univ Arizona State Univ Arizona State Univ	
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<i>On the Operation and Value of Storage in Consumer Demand Response (I)</i> , pp. 205-210.		
Xu, Yunjian Tong, Lang	Singapore Univ. of Tech. and Design Cornell Univ	
11:00-11:20	MoA06.4	
<i>Plug-And-Play Control and Optimization in Microgrids (I)</i> , pp. 211-216.		
Dörfler, Florian Simpson-Porco, John W. Bullo, Francesco	Swiss Federal Inst. of Tech. Zurich Univ. of California Santa Barbara Univ. California at Santa Barbara	
11:20-11:40	MoA06.5	
<i>Stealthy Attacks in Power Systems: Limitations on Manipulating the Estimation Deviations Caused by Switching Network Topologies</i> , pp. 217-222.		
Wang, Shaocheng Ren, Wei	Univ. of California, Riverside Univ. of California, Riverside	
11:40-12:00	MoA06.6	
<i>An Internal Model Approach to Frequency Regulation in Inverter-Based Microgrids with Time-Varying Voltages</i> , pp. 223-228.		
Trip, Sebastian Bürger, Mathias De Persis, Claudio	Univ. of Groningen Univ. of Stuttgart Univ. of Groningen	
MoA07	Salon 7	
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Chair: Beard, Randal Co-Chair: Morgan, Robert	Brigham Young Univ. Raytheon	
10:00-10:20	MoA07.1	
<i>Control of a New Convertible UAV with a Minimal Sensor Suite</i> , pp. 229-235.		
Phung, Duc-Kien Morin, Pascal	Isir, Upmc Upmc	
10:20-10:40	MoA07.2	
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Ahsun, Umair Badar, Tabish Tahir, Shiraz Aldosari, Saeed	PSATRI, King Saud Univ PSATRI, King Saud Univ PSATRI, King Saud Univ King Saud Univ	
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Sahawneh, Laith Beard, Randal	Brigham Young Univ Brigham Young Univ	
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Depenbusch, Nathan Thomas Lagoa, Constantino M. Langelaan, Jack W.	Pennsylvania State Univ Pennsylvania State Univ Pennsylvania State Univ	
11:20-11:40	MoA07.5	
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Suwantong, Rata Bertrand, Sylvain Dumur, Didier Beauvois, Dominique	Onera Onera Supelec Ec. Superieure D'Electricite	
11:40-12:00	MoA07.6	
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Morgan, Robert Noseck, Aaron	Raytheon Raytheon Missile Systems	
MoA08	Salon 8	
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Chair: Enqvist, Martin Co-Chair: Chen, Tianshi	Linköping Univ. Linköping Univ.	
10:00-10:20	MoA08.1	
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Chen, Tianshi Andersen, Martin S. Chiuso, Alessandro Pillonetto, Gianluigi Ljung, Lennart	Linköping Univ. Tech. Univ. of Denmark Univ. of Padova Univ. of Padova Linkoping Univ.	
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Stotsky, Alexander A.	Chalmers Univ. of Tech	
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<i>The Maximum Likelihood Estimate for Radiation Source Localization: Initializing an Iterative Search</i> , pp. 277-282.		
Bai, Er-Wei	Univ. of Iowa	

Dasgupta, Soura Mudumbai, Raghuraman	Univ. of Iowa Univ. of Iowa	MoA09.6
11:00-11:20	MoA08.4	
<i>A Closed-Loop Instrumental Variable Approach to Mass and Center of Mass Estimation Using IMU Data</i> , pp. 283-289.		
Linder, Jonas Enqvist, Martin Gustafsson, Fredrik	Linköping Univ Linköping Univ Linkoping Univ	Iowa State Univ Iowa State Univ Iowa State Univ
11:20-11:40	MoA08.5	Salon 10
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Hansson, Anders Verhaegen, Michel	Linkoping Univ Delft Univ. of Tech	Pol. di Milano Univ. of Kansas
11:40-12:00	MoA08.6	
<i>Structured Covariance Estimation for State Prediction</i> , pp. 296-303.		
Li, Weichang Badgwell, Thomas A.	ExxonMobil Corp. Strategic Res ExxonMobil	Univ. of Kansas Pol. di Milano
MoA09	Salon 9	
Estimation I (Regular Session)		
Chair: Gondhalekar, Ravi Co-Chair: Xin, Ming	Univ. of California Santa Barbara Univ. of Missouri	Chinese Acad. of Sciences Chinese Acad. of Sciences
10:00-10:20	MoA09.1	Wayne State Univ Wayne State Univ Wayne State Univ
<i>High-Degree Cubature Joint Probabilistic Data Association Information Filter for Multiple Sensor Multiple Target Tracking</i> , pp. 304-309.		
Jia, Bin Xin, Ming	Intelligent Fusion Tech Univ. of Missouri	Univ. of Maryland Univ. of Maryland
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Gondhalekar, Ravi Dassau, Eyal Doyle III, Francis J.	Univ. of California, Santa Barbara Univ. of California, Santa Barbara Univ. of California, Santa Barbara	Pol. Di Milano Pol. Di Milano
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Ahmed-Ali, Tarek Burlion, Laurent Lamnabhi-Lagarrigue, Francoise Hann, Cheikh Ahmadou Bamba	Greyc Cnrs Onera CNRS and EECI Univ. Caen Basse-Normandie	Texas A&M Univ Texas A&M Univ Texas A&M Univ
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Su, Jinya Chen, Wen-hua Li, Baibing	Loughborough Univ Loughborough Univ Loughborough Univ	Univ. of Kansas Univ. of Kansas
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Hua, Minh-Duc Martin, Philippe Hamel, Tarek	Inst. Des Systèmes Intelligents Et De Robotique (ISIR CNRS-UP MINES ParisTech Univ. De Nice Sophia Antipolis	Carleton Univ Univ. of Puerto Rico, Rio Piedras

MoA11	Georgia 1	
Optimization I (Regular Session)		
Chair: Girard, Anouck	Univ. of Michigan, Ann Arbor	
Co-Chair: Smith, Stephen L.	Univ. of Waterloo	
10:00-10:20	MoA11.1	
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Wang, Yin	Northeastern Univ	
Lopez, Jose A.	Northeastern Univ	
Sznaier, Mario	Northeastern Univ	
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Christopher, Cody James	ICTA, Canberra, Australia	
Grastien, Alban	ICTA, Canberra, Australia	
Cordier, Marie-odile	Univ. Rennes1	
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Shi, Hanyu	Northwestern Univ	
Chu, Yunfei	Northwestern Univ	
You, Fengqi	Northwestern Univ	
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Majumdar, Anirudha	Massachusetts Inst. of Tech	
Ahmadi, Amir Ali	Princeton Univ	
Tedrake, Russ	Massachusetts Inst. of Tech	
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Niendorf, Moritz	Univ. of Michigan	
Las Fargeas, Jonathan	Univ. of Michigan	
Kabamba, Pierre T.	Univ. of Michigan	
Girard, Anouck	Univ. of Michigan	
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Asghar, Ahmad Bilal	Univ. of Waterloo	
Smith, Stephen L.	Univ. of Waterloo	
MoA12	Georgia 2	
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Chair: Khanafer, Ali	Univ. Illinois, Urbana-Champaign	
Co-Chair: Marden, Jason	Univ. of Colorado at Boulder	
10:00-10:20	MoA12.1	
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Gupta, Abhishek	Univ. of Illinois, Urbana-Champaign	
Basar, Tamer	Univ. of Illinois, Urbana-Champaign	
10:20-10:40	MoA12.2	
<i>Approximate Solutions to a Class of Nonlinear Stackelberg Differential Games, pp. 420-425.</i>		
Mylvaganam, Thulasi	Imperial Coll. London	
Astolfi, Alessandro	Imperial Coll. & Univ. of Rome	
10:40-11:00	MoA12.3	
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Tatarenko, Tatiana	TU Darmstadt	
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<i>Distributed Game Strategy Design with Application to Multi-Agent Formation Control, pp. 433-438.</i>		
Lin, Wei	Western Digital Corp	
Qu, Zhihua	Univ. of Central Florida	
Simaan, Marwan A.	Univ. of Central Florida	
11:20-11:40	MoA12.5	
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Charalambous, Charalambos	Univ. of Cyprus	
Ahmed, Nasir	Univ. of Ottawa	
11:40-12:00	MoA12.6	
<i>The Role of Information in Multiagent Coordination, pp. 445-450.</i>		
Marden, Jason	Univ. of Colorado at Boulder	
MoA13	Atrium 1	
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Chair: Barbot, Jean Pierre	ENSEA	
Co-Chair: Califano, Claudia	Univ. di Roma	
10:00-10:20	MoA13.1	
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Feigin, Yuri	Tel Aviv Univ	
Fridman, Emilia	Tel Aviv Univ	
Margaliot, Michael	Tel Aviv Univ	
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Bresch-Pietri, Delphine	GIPSA-Lab	
Petit, Nicolas	MINES ParisTech	
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Iftar, Altug	Anadolu Univ	
11:00-11:20	MoA13.4	
<i>Left Inversion of Nonlinear Time Delay System, pp. 469-474.</i>		
Kader, Zohra	Inria Lille Nord Europe	
Zheng, Gang	Inria	
Barbot, Jean Pierre	Ensea	
11:20-11:40	MoA13.5	
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Califano, Claudia	Univ. Di Roma	
Moog, Claude	Cnrs	
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Namvar, Mehrzad	Sharif Univ. of Tech	
Bahrami, Somayeh	Sharif Univ. of Tech	

MoA14	Olympic 1	
Adversary-Aware Cyber Decision Systems (Invited Session)		
Chair: Cox, Ann	Department of Homeland Security	
Co-Chair: Kreidl, O. Patrick	Univ. of North Florida	
Organizer: Cox, Ann	Department of Homeland Security	
Organizer: Kreidl, O. Patrick	Univ. of North Florida	
10:00-10:20	MoA14.1	
<i>A Science of System Security (I)</i> , pp. 487-492.		
Cox, Ann	Department of Homeland Security	
Roy, Sandip	Washington State Univ	
Warnick, Sean	Brigham Young Univ	
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Caldwell, Patrick	Univ. of North Florida	
Kreidl, O. Patrick	Univ. of North Florida	
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Fardad, Makan	Syracuse Univ	
Diwakar, Amit	Iowa State Univ	
Vaidya, Umesh	Iowa State Univ	
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Abrardo, Andrea	Univ. of Siena	
Barni, Mauro	Univ. of Siena	
Kallas, Kassem	Univ. of Siena	
Tondi, Benedetta	Univ. of Siena	
11:20-11:40	MoA14.5	
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Chetty, Vasu	Brigham Young Univ	
Woodbury, Nathan Scott	Brigham Young Univ	
Vaziripour, Elham	Brigham Young Univ	
Warnick, Sean	Brigham Young Univ	
11:40-12:00	MoA14.6	
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Miao, Fei	Univ. of Pennsylvania	
Zhu, Quanyan	New York Univ	
MoA15	Atrium 2	
Adaptive Control I (Regular Session)		
Chair: Su, Hongye	Zhejiang Univ.	
Co-Chair: Heise, Christian David	Tech. Univ. München	
10:00-10:20	MoA15.1	
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Ansari, Ahmad	Univ. of Michigan	
Yu, Ming-Jui	Univ. of Michigan	
Bernstein, Dennis S.	Univ. of Michigan	
10:20-10:40	MoA15.2	
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Heise, Christian David	Tech. Univ. München	
Holzapfel, Florian	Tech. Univ. München	
10:40-11:00	MoA15.3	
<i>When Is a Parameterized Controller Suitable for Adaptive Control?</i> , pp. 536-538.		
Ortega, Romeo	LSS - SUPELEC	
Panteley, Elena	LSS - SUPELEC	
11:00-11:20	MoA15.4	
<i>On Parameter Convergence of Nonlinearly Parameterized Adaptive Systems: Analysis Via Contraction and First Lyapunov's Methods</i> , pp. 539-544.		
Wang, Lei	Zhejiang Univ	
Ortega, Romeo	LSS - SUPELEC	
Su, Hongye	Zhejiang Univ	
Liu, Zhitao	Zhejiang Univ	
Xu, Weihua	Zhejiang Univ	
11:20-11:40	MoA15.5	
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Al Janaideh, Mohammad	The Univ. of Jordan	
Bernstein, Dennis S.	Univ. of Michigan	
11:40-12:00	MoA15.6	
<i>Geometric Based Estimation and Nonlinear PI Controller for Dynamic Optimization Problem</i> , pp. 551-556.		
Moshksar, Ehsan	Queen's Univ	
Guay, Martin	Queen's Univ	
MoA16	Olympic 2	
Control of First and Second Order PDEs (Invited Session)		
Chair: Armaou, Antonios	Pennsylvania State Univ.	
Co-Chair: Demetriou, Michael	Worcester Pol. Inst.	
Organizer: Armaou, Antonios	Pennsylvania State Univ.	
Organizer: Demetriou, Michael	Worcester Pol. Inst.	
10:00-10:20	MoA16.1	
<i>Guidance of a Moving Sensor Used in State Estimation of a Flexible Beam (I)</i> , pp. 557-562.		
Demetriou, Michael A.	Worcester Pol. Inst	
10:20-10:40	MoA16.2	
<i>Economic Model Predictive Control of a First-Order Hyperbolic PDE System (I)</i> , pp. 563-570.		
Lao, Liangfeng	Univ. of California, Los Angeles	
Ellis, Matthew	Univ. of California, Los Angeles	
Christofides, Panagiotis D.	Univ. of California, Los Angeles	
10:40-11:00	MoA16.3	
<i>Comparison of Stabilization of Current-Actuated and Voltage-Actuated Piezoelectric Beams (I)</i> , pp. 571-576.		
Morris, Kirsten	Univ. of Waterloo	
Ozer, A. Ozkan	Univ. of Nevada-Reno	
11:00-11:20	MoA16.4	
<i>Controlling Flutter for Nonlinear Panels in Subsonic Flows Via Structural Velocity Feedback (I)</i> , pp. 577-582.		
Lasiecka, Irena	Univ. of Virginia	
Webster, Justin	North Carolina State Univ	

11:20-11:40	MoA16.5	
<i>A Comparison of Morphing Control Strategies for a Flexible Wing Micro Air Vehicle Model Incorporating Spatial Hysteresis Damping (I), pp. 583-588.</i>		
Walters, Jonathan	Louisiana Tech. Univ	
Evans, Katie A.	Louisiana Tech. Univ	
Chakravarthy, Animesh	Wichita State Univ	
Kuhn, Lisa	Southeastern Louisiana Univ	
11:40-12:00	MoA16.6	
<i>Global Sensitivity Analysis for the Boundary Control of an Open Channel, pp. 589-594.</i>		
Janon, Alexandre	Univ. Paris-Sud	
Nodet, Maelle	Univ. Joseph Fourier	
Prieur, Christophe	Cnrs	
Prieur, Clementine	Univ. Joseph Fourier	
MoA17	Atrium 3	
Controllability and Stability of Networked Control Systems I		
(Invited Session)		
Chair: Belabbas, Mohamed Ali	Univ. of Illinois, Urbana-Champaign	
Co-Chair: Gharesifard, Bahman	Queens Univ. Canada	
Organizer: Belabbas, Mohamed Ali	Univ. of Illinois at Urbana-Champaign	
Organizer: Gharesifard, Bahman	Queens Univ. Canada	
Organizer: Aguilar, Cesar	California State Univ. Bakersfield	
10:00-10:20	MoA17.1	
<i>Decentralized Formation of Random Regular Graphs for Robust Multi-Agent Networks (I), pp. 595-600.</i>		
Yazicioglu, A. Yasin	Massachusetts Inst. of Tech	
Egerstedt, Magnus	Georgia Inst. of Tech	
Shamma, Jeff S.	Kaust	
10:20-10:40	MoA17.2	
<i>Centralized and Decentralized Formation Control with Controllable Interaction Laws (I), pp. 601-606.</i>		
Chen, Xudong	Univ. of Illinois at Urbana-Champaign	
Brockett, Roger	Harvard Univ	
10:40-11:00	MoA17.3	
<i>On the Controllability of Isotropic and Anisotropic Networks (I), pp. 607-612.</i>		
Pasqualetti, Fabio	Univ. of California, Riverside	
Zampieri, Sandro	Univ. Di Padova	
11:00-11:20	MoA17.4	
<i>Stability of Dynamical Systems on a Graph (I), pp. 613-618.</i>		
Pirani, Mohammad	Univ. of Waterloo	
Costa, Thilan	Univ. of Waterloo	
Sundaram, Shreyas	Univ. of Waterloo	
11:20-11:40	MoA17.5	
<i>A Graph-Theoretic Classification for the Controllability of the Laplacian Leader-Follower Dynamics (I), pp. 619-624.</i>		
Aguilar, Cesar O	California State Univ. Bakersfield	
Gharesifard, Bahman	Queens Univ. Canada	
11:40-12:00	MoA17.6	
<i>On Symmetry and Controllability of Multi-Agent Systems (I), pp. 625-630.</i>		
Chapman, Airlie	Univ. of Washington	
Mesbahi, Mehran	Univ. of Washington	
MoA18	Olympic 3	
Autonomous Systems (Regular Session)		
Chair: Johansson, Karl H.	Royal Inst. of Tech.	
Co-Chair: Chung, Chung Choo	Hanyang Univ.	
10:00-10:20	MoA18.1	
<i>Stability Analysis on Four Agent Tetrahedral Formations, pp. 631-636.</i>		
Park, Myoung-Chul	Gwangju Inst. of Science and Tech. (GIST)	
Sun, Zhiyong	Australian National Univ	
Anderson, Brian D.O.	Australian National Univ	
Ahn, Hyo-Sung	Gwangju Inst. of Science and Tech. (GIST)	
10:20-10:40	MoA18.2	
<i>Undirected Rigid Formations Are Problematic, pp. 637-642.</i>		
Mou, Shaoshuai	Yale Univ	
Morse, A. Stephen	Yale Univ	
Belabbas, Mohamed Ali	Univ. of Illinois at Urbana-Champaign	
Anderson, Brian D.O.	Australian National Univ	
10:40-11:00	MoA18.3	
<i>Toward Robust Control of Minimally Rigid Undirected Formations, pp. 643-647.</i>		
Mou, Shaoshuai	Mit	
Morse, A. Stephen	Yale Univ	
Anderson, Brian D.O.	Australian National Univ	
11:00-11:20	MoA18.4	
<i>Comparative Evaluation of Dynamic and Kinematic Vehicle Models, pp. 648-653.</i>		
Kang, Chang Mook	Hanyang Univ	
Lee, Seung Hi	Hanyang Univ	
Chung, Chung Choo	Hanyang Univ	
11:20-11:40	MoA18.5	
<i>Fuel-Efficient Heavy-Duty Vehicle Platooning by Look-Ahead Control, pp. 654-660.</i>		
Turri, Valerio	Royal Inst. of Tech	
Besselink, Bart	Royal Inst. of Tech	
Mårtensson, Jonas	Royal Inst. of Tech	
Johansson, Karl Henrik	Royal Inst. of Tech	
11:40-12:00	MoA18.6	
<i>Runtime Conflict Resolution Mechanism for Functional Integrity of Autonomous Systems, pp. 661-666.</i>		
Nishi, Masataka	Hitachi Res. Lab. Hitachi Ltd	

MoA19	Plaza 1	
Robotics I (Regular Session)		
Chair: Acosta, Jose Angel	Univ. de Sevilla	
Co-Chair: Chang, Dong Eui	Univ. of Waterloo	
10:00-10:20	MoA19.1	
<i>Global Estimation of Rigid-Body Attitude/position Using a Single Landmark and Biased Velocity Measurements</i> , pp. 667-672.		
Namvar, Mehrzad	Sharif Univ. of Tech	
Moeini, Amir	Sharif Univ. of Tech	
10:20-10:40	MoA19.2	
<i>Robust Control of Underactuated Aerial Manipulators Via IDA-PBC</i> , pp. 673-678.		
Acosta, Jose Angel	Univ. of Seville	
Sanchez, M. Ivan	Univ. of Seville	
Ollero, Anibal Ollero	Univ. of Seville	
10:40-11:00	MoA19.3	
<i>Adaptive Neural Network Dynamic Surface Control for Musculoskeletal Robots</i> , pp. 679-685.		
Jaentsch, Michael	Tech. Univ. of Munich	
Wittmeier, Steffen	Tech. Univ. of Munich	
Dalamagkidis, Konstantinos	Tech. Univ. of Munich	
Herrmann, Guido	Univ. of Bristol	
Knoll, Alois	Tech. Univ. of Munich	
11:00-11:20	MoA19.4	
<i>Construction of an Atlas for Global Flatness-Based Parameterization and Dynamic Feedback Linearization of Quadcopter Dynamics</i> , pp. 686-691.		
Chang, Dong Eui	Univ. of Waterloo	
Eun, Yongsoon	Dgist	
11:20-11:40	MoA19.5	
<i>Surveillance in an Abruptly Changing World Via Multiarmed Bandits</i> , pp. 692-697.		
Srivastava, Vaibhav	Princeton Univ	
Reverdy, Paul	Princeton Univ	
Leonard, Naomi Ehrich	Princeton Univ	
11:40-12:00	MoA19.6	
<i>A Robust Control Strategy for Mobile Robots Navigation in Dynamic Environments</i> , pp. 698-703.		
Furci, Michele	Univ. of Bologna	
Naldi, Roberto	Univ. of Bologna	
Paoli, Andrea	Univ. of Bologna	
Marconi, Lorenzo	Univ. of Bologna	
MoA20	Plaza 2	
Consensus I (Regular Session)		
Chair: Hadjicostis, Christoforos	Univ. of Cyprus	
Co-Chair: George, Jemin	U.S. Army Res. Lab.	
10:00-10:20	MoA20.1	
<i>Adding Resets to an Average Consensus Algorithm to Achieve Practical Input-To-Output Stability</i> , pp. 704-708.		
Hartman, Matthew	Univ. of California, Santa Barbara	
Teel, Andrew R.	Univ. of California, Santa Barbara	
10:20-10:40	MoA20.2	
<i>Average Consensus in the Presence of Dynamically Changing Directed Graph Topologies and Time Delays</i> , pp. 709-714.		
Charalambous, Themistoklis	Royal Inst. of Tech. (KTH)	
Hadjicostis, Christoforos	Univ. of Cyprus	
10:40-11:00	MoA20.3	
<i>A Geometric Approach towards Linear Consensus Algorithms</i> , pp. 715-720.		
Bolouki, Sadegh	Lehigh Univ	
Malhame, Roland P.	Ec. Pol. De Montreal	
Siami, Milad	Lehigh Univ	
Mottee, Nader	Lehigh Univ	
11:00-11:20	MoA20.4	
<i>Binary Consensus through Binary Communication</i> , pp. 721-726.		
George, Jemin	U.S. Army Res. Lab	
Swami, Ananthram	U.S. Army Res. Lab	
11:20-11:40	MoA20.5	
<i>The Consensus Problem in the Behavioral Approach</i> , pp. 727-734.		
Blumthaler, Ingrid	Univ. of Padova	
Bisiacco, Mauro	Univ. of Padova	
Valcher, Maria Elena	Univ. of Padova	
11:40-12:00	MoA20.6	
<i>Optimal Strategies for Dynamic Weight Selection in Consensus Protocols in the Presence of an Adversary</i> , pp. 735-740.		
El Chamie, Mahmoud	INRIA - Sophia Antipolis Méditerranée	
Basar, Tamer	Univ. of Illinois, Urbana-Champaign	
MoB01	Salon F	
Hybrid Systems II (Regular Session)		
Chair: Maggiore, Manfredi	Univ. of Toronto	
Co-Chair: Kieffer, Michel	CNRS-Supelec	
13:30-13:50	MoB01.1	
<i>A Hybrid Controller for Global Uniform Exponential Stabilization of Linear Systems with Singular Input Constraints</i> , pp. 741-746.		
Casau, Pedro	Inst. Superior Técnico, Tech. Univ. of Lisbon	
Sanfelice, Ricardo G.	Univ. of California at Santa Cruz	
Silvestre, Carlos	Univ. of Macau	
13:50-14:10	MoB01.2	
<i>A Maximum Entropy Approach to the Moment Closure Problem for Stochastic Hybrid Systems at Equilibrium</i> , pp. 747-752.		
Zhang, Jiangmeng	Univ. of Illinois at Urbana-Champaign	
DeVille, Lee	Univ. of Illinois	
Dhopde, Sairaj	Univ. of Minnesota	
Dominguez-Garcia, Alejandro	Univ. of Illinois at Urbana-Champaign	
14:10-14:30	MoB01.3	
<i>Computation of Parametric Barrier Functions for Dynamical Systems Using Interval Analysis</i> , pp. 753-758.		
Bouissou, Olivier	Cea List	
Chapoutot, Alexandre	ENSTA ParisTech	
Djaballah, Adel	ENSTA-ParisTech	
Kieffer, Michel	CNRS-Supelec	
14:30-14:50	MoB01.4	
<i>A New Filter for Hybrid Systems and Its Applications to Robust Attitude Estimation</i> , pp. 759-764.		
Santana, Pedro Henrique de Rodrigues Quemel e Assis	Massachusetts Inst. of Tech	
Lopes, Renato Vilela	Univ. of Brasília	

Amui, Bruno Guilherme	Univ. of Brasilia		
Borges, Geovany A.	Univ. of Brasilia		
Ishihara, Joao Yoshiyuki	Univ. of Brasilia		
Williams, Brian	Massachusetts Inst. of Tech		
14:50-15:10	MoB01.5		
<i>Discrete-Time Modeling of a Hereditary Impulsive Feedback System, pp. 765-770.</i>			
Churilov, Alexander	St.Petersburg State Marine Tech. Univ		
Medvedev, Alexander V.	Uppsala Univ		
Mattsson, Per	Uppsala Univ		
15:10-15:30	MoB01.6		
<i>Bang Bang Hybrid Stabilization of Perturbed Double Integrators, pp. 771-776.</i>			
Serpelloni, Edoardo	Univ. of Toronto		
Maggiore, Manfredi	Univ. of Toronto		
Damaren, Chris J.	Univ. of Toronto		
MoB02	Salon G		
Nonlinear Systems II (Regular Session)			
Chair: Kellett, Christopher M.	Univ. of Newcastle		
Co-Chair: Hayakawa, Tomohisa	Tokyo Inst. of Tech.		
13:30-13:50	MoB02.1		
<i>Nonlinear Systems with Nonlinear L2-Gain, pp. 777-782.</i>			
Dower, Peter M.	The Univ. of Melbourne		
Kellett, Christopher M.	Univ. of Newcastle		
13:50-14:10	MoB02.2		
<i>Passivity Indices and Passivation of Systems with Application to Systems with Input/Output Delay, pp. 783-788.</i>			
Xia, Meng	Univ. of Notre Dame		
Antsaklis, Panos J.	Univ. of Notre Dame		
Gupta, Vijay	Univ. of Notre Dame		
14:10-14:30	MoB02.3		
<i>Control Configuration Selection for Economic Model Predictive Control, pp. 789-796.</i>			
Ellis, Matthew	Univ. of California, Los Angeles		
Christofides, Panagiotis D.	Univ. of California, Los Angeles		
14:30-14:50	MoB02.4		
<i>Leader-Following Coordination of Nonlinear Agents under Time-Varying Communication Topologies, pp. 797-804.</i>			
Delli Priscoli, Francesco	Univ. di Roma		
Isidori, Alberto	Univ. di Roma		
Marconi, Lorenzo	Univ. di Bologna		
Pietrabissa, Antonio	Univ. di Roma		
14:50-15:10	MoB02.5		
<i>A Novel Approach to the Automatic Control of Scale Model Airplanes, pp. 805-812.</i>			
Hua, Minh-Duc	Inst. Des Systèmes Intelligents Et De Robotique (ISIR CNRS-UP		
Pucci, Daniele	Istituto Italiano Di Tecnologia		
Hamel, Tarek	Univ. De Nice Sophia Antipolis		
Morin, Pascal	Upmc		
Samson, Claude	INRIA Sophia-Antipolis		
15:10-15:30	MoB02.6		
<i>Chaotic Dynamics of Orthogonally Projective Triangle Folding Map, pp. 813-815.</i>			
Nishimura, Jun	Tokyo Inst. of Tech		
Hayakawa, Tomohisa	Tokyo Inst. of Tech		
MoB03	Salon H		
Formal Methods in Control II (Invited Session)			
Chair: Reissig, Gunther	Univ. Fed. Armed Forces Munich		
Co-Chair: Zamani, Majid	Tech. Univ. München		
Organizer: Zamani, Majid	Tech. Univ. München		
Organizer: Reissig, Gunther	Univ. Fed. Armed Forces Munich		
13:30-13:50	MoB03.1		
<i>Preliminary Results on Correct-By-Construction Control Software Synthesis for Adaptive Cruise Control (I), pp. 816-823.</i>			
Univ. of Michigan			
Hussien, Omar	Univ. of California at Los Angeles		
Chen, Yuxiao	Univ. of Michigan		
Balkan, Ayca	Univ. of California at Los Angeles		
Rungger, Matthias	Tum		
Ames, Aaron D.	Texas A&M Univ		
Grizzle, Jessy W.	Univ. of Michigan		
Ozay, Necmiye	Univ. of Michigan		
Peng, Huei	Univ. of Michigan		
Tabuada, Paulo	Univ. of California at Los Angeles		
13:50-14:10	MoB03.2		
<i>Approximately Bisimilar Abstractions of Incrementally Stable Finite or Infinite Dimensional Systems (I), pp. 824-829.</i>			
Girard, Antoine	Univ. Joseph Fourier		
14:10-14:30	MoB03.3		
<i>Trajectory-Based Formal Controller Synthesis for Multi-Link Robots with Elastic Joints (I), pp. 830-835.</i>			
Saha, Sayan	Rensselaer Pol. Inst		
Julius, A. Agung	Rensselaer Pol. Inst		
14:30-14:50	MoB03.4		
<i>Construction of Event-Based ISS Controllers on Coarse Quantizations (I), pp. 836-841.</i>			
Gruene, Lars	Univ. of Bayreuth		
Sigurani, Manuela	Univ. of Bayreuth		
14:50-15:10	MoB03.5		
<i>Discounting the past in Robust Finite-State Systems (I), pp. 842-847.</i>			
Rungger, Matthias	Univ. of California at Los Angeles		
Tabuada, Paulo	Univ. of California at Los Angeles		
15:10-15:30	MoB03.6		
<i>Anomaly Detection in Cyber-Physical Systems: A Formal Methods Approach (I), pp. 848-853.</i>			
Jones, Austin	Boston Univ		
Kong, Zhaodan	Boston Univ		
Belta, Calin	Boston Univ		

MoB04	Salon I	
Output Feedback and Observers II (Regular Session)		
Chair: Zaccarian, Luca	LAAS-CNRS and Univ. of Trento	
Co-Chair: Koroglu, Hakan	Chalmers Univ. of Tech.	
13:30-13:50 MoB04.1		
<i>Faux-Riccati Synthesis of Nonlinear Observer-Based Compensators for Discrete-Time Nonlinear Systems</i> , pp. 854-859.		
Prach, Anna	Middle East Tech. Univ	
Tekinalp, Ozan	Middle East Tech. Univ	
Bernstein, Dennis S.	Univ. of Michigan	
13:50-14:10	MoB04.2	
<i>Output Feedback Control for T-S Discrete-Time Nonlinear Descriptor Models</i> , pp. 860-865.		
Estrada-Manzo, Victor	Univ. of Valenciennes and Hainaut-Cambrésis	
Lendek, Zsofia	Tech. Univ. of Cluj-Napoca	
Guerra, Thierry Marie	Univ. of Valenciennes and Hainaut Cambrésis	
14:10-14:30	MoB04.3	
<i>New LMI Conditions for Static Output Feedback Synthesis with Multiple Performance Objectives</i> , pp. 866-871.		
Koroglu, Hakan	Chalmers Univ. of Tech	
Falcone, Paolo	Chalmers Univ. of Tech	
14:30-14:50	MoB04.4	
<i>Observer-Based Output-Feedback Control to Eliminate Torsional Drill-String Vibrations</i> , pp. 872-877.		
Vromen, Thijs	Eindhoven Univ. of Tech	
Van De Wouw, Nathan	Eindhoven Univ. of Tech	
Doris, Apostolos	Eindhoven Univ. of Tech	
Astrid, Patricia	Shell Global Solutions International B.V	
Nijmeijer, Hendrik	Eindhoven Univ. of Tech	
14:50-15:10	MoB04.5	
<i>Dynamic Extension without Inversion for Observers</i> , pp. 878-883.		
Andrieu, Vincent	Univ. De Lyon	
Eytard, Jean-Bernard	MINES ParisTech	
Praly, Laurent	MINES ParisTech	
15:10-15:30	MoB04.6	
<i>A Hybrid Ripple Model and Two Hybrid Observers for Its Estimation</i> , pp. 884-889.		
Bisoffi, Andrea	Univ. of Trento	
Da Lio, Mauro	Univ. of Trento	
Zaccarian, Luca	LAAS-CNRS and Univ. of Trento	
MoB05	Salon J	
Decentralized Coordination and Control (Invited Session)		
Chair: Nedich, Angelia	Univ. Illinois, Urbana-Champaign	
Co-Chair: Mesbahi, Mehran	Univ. of Washington	
Organizer: Morse, A. Stephen	Yale Univ.	
Organizer: Nedich, Angelia	Univ. Illinois, Urbana-Champaign	
13:30-13:50	MoB05.1	
<i>Dynamic Average Consensus with Distributed Event-Triggered Communication</i> (I), pp. 890-895.		
Kia, Solmaz	Univ. of California Irvine	
Cortes, Jorge	Univ. of California, San Diego	
Martinez, Sonia	Univ. of California, San Diego	
13:50-14:10	MoB05.2	
<i>Convex Relaxation for Optimal Distributed Control Problem</i> , pp. 896-903.		
Fazelnia, Ghazal	Columbia Univ	
Madani, Ramtin	Columbia Univ	
Lavaei, Javad	Columbia Univ	
14:10-14:30	MoB05.3	
<i>Online Distributed ADMM Via Dual Averaging</i> (I), pp. 904-909.		
Hosseini, Saghar	Univ. of Washington	
Chapman, Airlie	Univ. of Washington	
Mesbahi, Mehran	Univ. of Washington	
14:30-14:50	MoB05.4	
<i>Ensemble Online Clustering through Decentralized Observations</i> (I), pp. 910-915.		
Katselis, Dimitrios	Univ. of Illinois, Urbana-Champaign	
Beck, Carolyn L.	Univ. of Illinois, Urbana-Champaign	
van der Schaar, Mihaela	Univ. of California, Los Angeles	
14:50-15:10	MoB05.5	
<i>Consensus and Disagreement in Collective Homing Problems: A Mean Field Game Formulation</i> , pp. 916-921.		
Salhab, Rabih	Ec. Pol. De Montreal	
Malhamé, Roland P.	Ec. Pol. De Montreal	
Le Ny, Jerome	Ec. Pol. De Montreal	
15:10-15:30	MoB05.6	
<i>Internal Stability of Linear Consensus Processes</i> (I), pp. 922-927.		
Liu, Ji	Univ. Illinois, Urbana-Champaign	
Morse, A. Stephen	Yale Univ	
Nedich, Angelia	Univ. Illinois, Urbana-Champaign	
Basar, Tamer	Univ. Illinois, Urbana-Champaign	
MoB06	Salon 6	
Electrical Power Systems I (Regular Session)		
Chair: Giarré, Laura	Univ. Di Palermo	
Co-Chair: Zhang, Yu	Univ. of Minnesota	
13:30-13:50	MoB06.1	
<i>Power Output Smoothing for Hybrid Wind-Solar Thermal Generation Using Chance-Constrained Model Predictive Control</i> , pp. 928-934.		
Yo, Masaki	Keio Univ	
Ono, Masahiro	California Inst. of Tech	
Adachi, Shuichi	Keio Univ	
Murayama, Dai	Toshiba Corp	
Okita, Nobuo	Toshiba Corp	
13:50-14:10	MoB06.2	
<i>An Improved Real-Time Economic NMPC Scheme for Wind Turbine Control Using Spline-Interpolated Aerodynamic Coefficients</i> , pp. 935-940.		
Gros, Sébastien	Chalmers Univ. of Tech	
Quirynen, Rien	Katholieke Univ. Leuven	
Diehl, Moritz	Katholieke Univ. Leuven	
14:10-14:30	MoB06.3	
<i>Distributed Market Clearing with Wind Generation and Large-Scale Dispatchable Loads</i> , pp. 941-946.		
Zhang, Yu	Univ. of Minnesota	
Giannakis, Georgios B.	Univ. of Minnesota	

14:30-14:50	MoB06.4	MoB07.5	
<i>A Distributed Anytime Algorithm for Network Utility Maximization with Application to Real-Time EV Charging Control</i> , pp. 947-952.			
Rivera, Jose Jacobsen, Hans-Arno	Tech. Univ. München Tech. Univ. München	Univ. of Central Florida Univ. of Central Florida	
14:50-15:10	MoB06.5	MoB07.6	
<i>Redesigning Generation Control in Power Systems: Methodology, Stability and Delay Robustness</i> , pp. 953-958.			
Zhang, Xuan Papachristodoulou, Antonis	Univ. of Oxford Univ. of Oxford	Beihang Univ Beijing Univ. of Aeronautics and Astronautics	
15:10-15:30	MoB06.6	Beihang Univ Beijing Univ. of Aeronautics and Astronautics	
<i>Unidirectional Direct Load Control through Smart Plugs</i> , pp. 959-964.			
Neglia, Giovanni	INRIA Sophia Antipolis Méditerranée	Beihang Univ Beijing Univ. of Aeronautics and Astronautics	
Di Bella, Giuseppe Giarré, Laura Tinnirello, Ilenia	Univ. di Palermo Univ. di Palermo Univ. di Palermo	Beihang Univ Beijing Univ. of Aeronautics and Astronautics	
MoB07	Salon 7	MoB08	Salon 8
Aerospace II (Regular Session)		System Identification II (Regular Session)	
Chair: Qu, Zhihua Co-Chair: Chamseddine, Abbas	Univ. of Central Florida Ec. de Tech. Supérieure	Chair: Ankarali, Mustafa Mert Co-Chair: Rivera, Daniel E.	Johns Hopkins Univ. Arizona State Univ.
13:30-13:50	MoB07.1	13:30-13:50	MoB08.1
<i>Optimal Bank Reversal for High-Lifting Reentry Vehicles</i> , pp. 965-969.		<i>Worst-Case Experiment Design for Constrained MISO Systems</i> , pp. 999-1004.	
Liang, Zixuan Li, Qingdong Ren, Zhang Chen, Jian Xiong, Zihao	Beihang Univ Beihang Univ Beijing Univ. of Aeronautics and Astronautics Beijing Univ. of Aeronautics and Astronautics Beihang Univ	Tanaskovic, Marko Fagiano, Lorenzo Morari, Manfred	ETH Zurich ABB Switzerland Ltd ETH Zurich
13:50-14:10	MoB07.2	13:50-14:10	MoB08.2
<i>Spacecraft Position and Attitude Formation Control Using Line-Of-Sight Observations</i> , pp. 970-975.		<i>Parameter Identification of a Permanent Magnet Synchronous Motor</i> , pp. 1005-1010.	
Wu, Tse-Huai Lee, Taeyoung	George Washington Univ George Washington Univ	Lozada-Castillo, Norma Beatriz Chairez Oria, Isaac Luviano-Juárez, Alberto Escobar, Jesica Azucena	Cinvestav Cinvestav UPIITA - IPN IPN
14:10-14:30	MoB07.3	14:10-14:30	MoB08.3
<i>Optimal Position Seeking for Unmanned Aerial Vehicle Communication Relay Using Only Signal Strength and Angle of Arrival</i> , pp. 976-981.		<i>A New Parametrisation of Matrix Fraction Descriptions to Improve Gradient-Based Optimisation Methods</i> , pp. 1011-1016.	
Chamseddine, Abbas Charland-Arcand, Guillaume Akhrif, Ouassima Gagné, Samuel Gagnon, François Couillard, Denis	École De Tech. Supérieure École De Tech. Supérieure École De Tech. Supérieure École De Tech. Supérieure École De Tech. Supérieure Ultra Electronics TCS	Vayssettes, Jérémie Mercère, Guillaume	Isae Univ. of Poitiers
14:30-14:50	MoB07.4	14:30-14:50	MoB08.4
<i>Cooperative Bicircular Target Tracking Using Multiple Unmanned Aerial Vehicles</i> , pp. 982-987.		<i>System Identification of Rhythmic Hybrid Dynamical Systems Via Discrete Time Harmonic Transfer Functions</i> , pp. 1017-1022.	
Liang, Yueqian Jia, Yingmin Du, Junping Matsuno, Fumitoshi	Beihang Univ. Beihang Univ. Beijing Univ. of Posts and Telecommunications Kyoto Univ	Ankarali, Mustafa Mert Cowan, Noah	Johns Hopkins Univ Johns Hopkins Univ
14:50-15:10	MoB07.5	14:50-15:10	MoB08.5
<i>Data-Centric Input Signal Design for Highly Interactive Dynamical Systems</i> , pp. 1023-1028.		Deshpande, Sunil Rivera, Daniel E.	Arizona State Univ Arizona State Univ
15:10-15:30	MoB07.6	15:10-15:30	MoB08.6
<i>A Constraint Selection Technique for Set Membership Estimation of Time-Varying Parameters</i> , pp. 1029-1034.		Casini, Marco Garulli, Andrea Vicino, Antonio	Univ. of Siena Univ. of Siena Univ. of Siena

MoB09	Salon 9	MoB10.2
Optimization II (Regular Session)		
Chair: Mahajan, Aditya	McGill Univ.	
Co-Chair: Chong, Michelle Siu Tze	Univ. of California, Santa Barbara	
13:30-13:50	MoB09.1	MoB10.3
<i>Pi-Invariant Unscented Kalman Filter for Sensor Fusion</i> , pp. 1035-1040.		
Condomines, Jean-Philippe	ENAC/ONERA	
Seren, Cedric	ONERA	
Hattenberger, Gautier	ENAC, French Civil Aviation Univ	
13:50-14:10	MoB09.2	MoB10.4
<i>On the Optimal Thresholds in Remote State Estimation with Communication Costs</i> , pp. 1041-1046.		
Chakravorty, Jhelum	McGill Univ	
Mahajan, Aditya	McGill Univ	
14:10-14:30	MoB09.3	MoB10.5
<i>Robust Hybrid EKF Approach for State Estimation in Multi-Scale Nonlinear Singularly Perturbed Systems</i> , pp. 1047-1054.		
Darogheh, Najmeh	Concordia Univ	
Meskin, Nader	Qatar Univ	
Khorasani, Khashayar	Concordia Univ	
14:30-14:50	MoB09.4	MoB10.6
<i>Multi-Sensor Transmission Power Scheduling for Remote State Estimation under SINR Model</i> , pp. 1055-1060.		
Li, Yuzhe	Hong Kong Univ. of Science and Tech	
Quevedo, Daniel E.	The Univ. of Newcastle	
Lau, Vincent K. N.	Hong Kong Univ. of Science and Tech	
Shi, Ling	Hong Kong Univ. of Science and Tech	
14:50-15:10	MoB09.5	Georgia 1
<i>Output-Feedback Model Predictive Control of Sewer Networks Through Moving Horizon Estimation</i> , pp. 1061-1066.		
Joseph-Duran, Bernat	Tech. Univ. of Catalonia	
Ocampo-Martinez, Carlos	Tech. Univ. of Catalonia	
Cembrano, Gabriela	Upc-Csic	
15:10-15:30	MoB09.6	
<i>State and Parameter Estimation of Nonlinear Systems: A Multi-Observer Approach</i> , pp. 1067-1072.		
Chong, Michelle Siu Tze	Univ. of California, Santa Barbara	
Nesic, Dragan	Univ. of Melbourne	
Postoyan, Romain	Cnrs-Cran	
Kuhlmann, Levin	Univ. of Melbourne	
MoB10	Salon 10	
Stochastic Optimal Control and Markov Decision Processes (Regular Session)		
Chair: Yuksel, Serdar	Queen's Univ.	
Co-Chair: Gonçalves, Alim P. C.	UNICAMP	
13:30-13:50	MoB10.1	
<i>A Unified Framework for Risk-Sensitive Markov Control Processes (I)</i> , pp. 1073-1078.		
Shen, Yun	Tech. Univ. Berlin	
Stannat, Wilhelm	Tech. Univ. Berlin	
Obermayer, Klaus	Tech. Univ. Berlin	
13:50-14:10	MoB10.2	
<i>Asymptotic Optimality of Quantized Control in Markov Decision Processes</i> , pp. 1079-1084.		
Saldi, Naci	Queen's Univ	
Linder, Tamás	Queen's Univ	
Yuksel, Serdar	Queen's Univ	
14:10-14:30	MoB10.3	
<i>Weighted Difference Approximation of Value Functions for Slow-Discounting Markov Decision Processes</i> , pp. 1085-1090.		
Chow, Yinlam	Stanford Univ	
Qin, Junjie	Stanford Univ	
14:30-14:50	MoB10.4	
<i>A Learning Based Approach to Control Synthesis of Markov Decision Processes for Linear Temporal Logic Specifications</i> , pp. 1091-1096.		
Sadigh, Dorsa	Univ. of California, Berkeley	
Kim, Eric S.	Univ. of California, Berkeley	
Coogan, Samuel	Univ. of California, Berkeley	
Sastry, S. Shankar	Univ. of California, Berkeley	
Seshia, Sanjit	Univ. of California, Berkeley	
14:50-15:10	MoB10.5	
<i>H-2 Output-Feedback Control of Continuous-Time MJLS with Uncertain Transition Rates</i> , pp. 1097-1102.		
Cardeliquio, Caetano	UNICAMP	
Gonçalves, Alim P. C.	UNICAMP	
Fioravanti, Andre R.	UNICAMP	
15:10-15:30	MoB10.6	
<i>Stabilization of a Quasi-Linear Parabolic Cauchy Problem Associated with Ergodic Control of Diffusions (I)</i> , pp. 1103-1110.		
Arapostathis, Ari	The Univ. of Texas at Austin	
Borkar, Vivek	Indian Inst. of Tech	
Kumar, Suresh	Indian Inst. of Tech	

14:50-15:10	MoB11.5	
<i>R3MC: A Riemannian Three-Factor Algorithm for Low-Rank Matrix Completion</i> , pp. 1137-1142.		
Mishra, Bamdev Sepulchre, Rodolphe J.	Univ. of Liège Univ. of Cambridge	
15:10-15:30	MoB11.6	
<i>On the Convergence to Saddle Points of Concave-Convex Functions, the Gradient Method and Emergence of Oscillations</i> , pp. 1143-1148.		
Holding, Thomas James Lestas, Ioannis	Univ. of Cambridge Univ. of Cambridge	
MoB12	Georgia 2	
Game Theory II (Regular Session)		
Chair: Pavel, Lacra Co-Chair: Hayel, Yezekael	Univ. of Toronto Univ. of Avignon	
13:30-13:50	MoB12.1	
<i>Pursuit-Evasion Games in the Presence of a Line Segment Obstacle</i> , pp. 1149-1154.		
Oyler, Dave W. Kabamba, Pierre T. Girard, Anouck	Univ. of Michigan Univ. of Michigan Univ. of Michigan	
13:50-14:10	MoB12.2	
<i>Nash Equilibrium Seeking by a Gossip-Based Algorithm</i> , pp. 1155-1160.		
Salehisadaghiani, Farzad Pavel, Lacra	Univ. of Toronto Univ. of Toronto	
14:10-14:30	MoB12.3	
<i>Stable Utility Design for Distributed Resource Allocation</i> , pp. 1161-1166.		
Gopalakrishnan, Ragavendran Nixon, Sean Marden, Jason	Univ. of Colorado at Boulder Univ. of Vermont Univ. of Colorado at Boulder	
14:30-14:50	MoB12.4	
<i>Exogenous Empirical-Evidence Equilibria in Perfect-Monitoring Repeated Games Yield Correlated Equilibria</i> , pp. 1167-1172.		
Dudebout, Nicolas Shamma, Jeff S.	Georgia Inst. of Tech Georgia Inst. of Tech	
14:50-15:10	MoB12.5	
<i>Game Theory Control Solution for Sensor Coverage Problem in Unknown Environment</i> , pp. 1173-1178.		
Salar, Rahili Ren, Wei	Univ. of California, Riverside Univ. of California, Riverside	
15:10-15:30	MoB12.6	
<i>Complete Game-Theoretic Characterization of SIS Epidemics Protection Strategies</i> , pp. 1179-1184.		
Hayel, Yezekael Trajanovski, Stojan Altman, Eitan Wang, Huijuan Van Mieghem, Piet	Univ. of Avignon Delft Univ. of Tech Inria Delft Univ. of Tech Delft Univ. of Tech	
MoB13	Atrium 1	
Delay Systems II (Regular Session)		
Chair: Hirche, Sandra Co-Chair: Pepe, Pierdomenico	Tech. Univ. München Univ. of L'Aquila	
13:30-13:50	MoB13.1	
<i>Delay-Dependent Robust Unknown Input Observer for Nonlinear Time-Delay Systems (I)</i> , pp. 1185-1190.		
Hassan, Lama Zemouche, Ali Boutayeb, Mohamed	Cran Cnrs Umr 7039 - UI Univ. of Lorraine Univ. of Henri Poincaré Nancy	
13:50-14:10	MoB13.2	
<i>Implicit Lyapunov-Krasovski Functionals for Time Delay Systems</i> , pp. 1191-1196.		
Polyakov, Andrey Efimov, Denis Perruquetti, Wilfrid Richard, Jean-Pierre	Inria Lille Nord-Europe Inria - Lne Ec. Centrale De Lille Ec. Centrale De Lille	
14:10-14:30	MoB13.3	
<i>Control of Active Magnetic Bearing Systems with Input Delay for Applications in Remotely Controlled Turbomachinery</i> , pp. 1197-1202.		
Anantachaisilp, Parinya Di, Long Yoon, Se Young (Pablo) Lin, Zongli	Univ. of Virginia Univ. of Virginia Univ. of New Hampshire Univ. of Virginia	
14:30-14:50	MoB13.4	
<i>Stabilizing Transmission Intervals and Delays for Nonlinear Networked Control Systems: The Large Delay Case</i> , pp. 1203-1208.		
Tolic, Domagoj Hirche, Sandra	Univ. of Zagreb Tech. Univ. München	
14:50-15:10	MoB13.5	
<i>Design of Decentralized, Practically Stabilizing Controllers for a Class of Interconnected Retarded Systems</i> , pp. 1209-1214.		
Pepe, Pierdomenico Ito, Hiroshi Jiang, Zhong-Ping	Univ. of L'Aquila Kyushu Inst. of Tech New York Univ	
15:10-15:30	MoB13.6	
<i>New Technique for Stability Analysis for Time-Varying Systems with Delay</i> , pp. 1215-1220.		
Mazenc, Frederic Malisoff, Michael	Epi Inria Disco Louisiana State Univ	
MoB14	Olympic 1	
Event-Triggered Systems I (Regular Session)		
Chair: Jagannathan, Sarangapani Co-Chair: Marquez, Horacio J.	Missouri Univ. of Science & Tech. Univ. of Alberta	
13:30-13:50	MoB14.1	
<i>Improved \$L_{cal_2\\$}-Gain Analysis for a Class of Hybrid Systems with Applications to Reset and Event-Triggered Control</i> , pp. 1221-1226.		
Loon, van, S.J.L.M. (Bas) Heemels, W.P.M.H. Teel, Andrew R.	Eindhoven Univ. of Tech Eindhoven Univ. of Tech Univ. of California, Santa Barbara	
13:50-14:10	MoB14.2	
<i>Event-Triggered Optimal Control of Nonlinear Continuous-Time Systems in Affine Form by Using Neural Networks</i> , pp. 1227-1232.		
Sahoo, Avimanyu Xu, Hao Jagannathan, Sarangapani Dierks, Travis	Missouri Univ. of Science & Tech Texas A&M Univ. - Corp. Christi Missouri Univ. of Science & Tech DRS Sustainment Systems, Inc	

14:10-14:30	MoB14.3	15:10-15:30	MoB15.6
<i>Event-Triggered Optimal Regulation of Uncertain Linear Discrete-Time Systems by Using Q-Learning Scheme</i> , pp. 1233-1238.		<i>M-MRAC with Normalization</i> , pp. 1289-1294.	
Sahoo, Avimanyu Jagannathan, Sarangapani	Missouri Univ. of Science & Tech Missouri Univ. of Science & Tech	Stepanyan, Vahram Krishnakumar, Kalmanje	Univ. of California Santa Cruz NASA Ames Res. Center
14:30-14:50	MoB14.4	13:30-13:50	MoB16.1
<i>A Novel Integral-Based Event Triggering Control for Linear Time-Invariant Systems</i> , pp. 1239-1243.		<i>Adaptive Output-Feedback for Wave PDE with Anti-Damping – Application to Surface-Based Control of Oil Drilling Stick-Slip Instability</i> , pp. 1295-1300.	
Mousavi, Seyed Hossein Ghodrat, Mohsen Marquez, Horacio J.	Univ. of Alberta Univ. of Alberta Univ. of Alberta	Bresch-Pietri, Delphine Krstic, Miroslav	GIPSA-Lab Univ. of California, San Diego
14:50-15:10	MoB14.5	13:50-14:10	MoB16.2
<i>Decentralized Event-Triggered Control for Leader-Follower Consensus</i> , pp. 1244-1249.		<i>Modeling and Estimation of the Humans' Effect on the CO2 Dynamics Inside a Conference Room (I)</i> , pp. 1301-1306.	
Cheng, Teng-Hu Kan, Zhen Shea, John Dixon, Warren E.	Univ. of Florida Univ. of Florida Univ. of Florida Univ. of Florida	Weekly, Kevin Bekiaris-Liberis, Nikolaos Bayen, Alexandre	Univ. of California, Berkeley Univ. of California, Berkeley Univ. of California, Berkeley
15:10-15:30	MoB14.6	14:10-14:30	MoB16.3
<i>Event Based Controller Design for a Class of Nonlinear Systems Via Convex Optimization</i> , pp. 1250-1255.		<i>Novel Representation Formulae for Discrete 2D Autonomous Systems (I)</i> , pp. 1307-1312.	
Mousavi, Seyed Hossein Marquez, Horacio J.	Univ. of Alberta Univ. of Alberta	Pal, Debasattam Pillai, Harish K.	Indian Inst. of Tech. Bombay Indian Inst. of Tech. Bombay
MoB15	Atrium 2	14:30-14:50	MoB16.4
Adaptive Control II (Regular Session)		<i>New Stability Conditions for Semilinear Diffusion Systems with Time-Delays</i> , pp. 1313-1317.	
Chair: Frazzoli, Emilio Co-Chair: Stepanyan, Vahram	Massachusetts Inst. of Tech. Univ. of California Santa Cruz	Solomon, Oren Fridman, Emilia	Tel Aviv Univ Tel Aviv Univ
13:30-13:50	MoB15.1	14:50-15:10	MoB16.5
<i>Asymptotic Adaptive Tracking with Input Amplitude and Rate Constraints and Bounded Disturbances</i> , pp. 1256-1263.		<i>Cantilever Dynamics Modelling for the Transverse Dynamic Force Microscope</i> , pp. 1318-1323.	
Yong, Sze Zheng Frazzoli, Emilio	Massachusetts Inst. of Tech Massachusetts Inst. of Tech	Nguyen, Thang Edwards, Christopher Herrmann, Guido Hatano, Toshiaki Burgess, Stuart C. Miles, Mervyn J	Univ. of Exeter Univ. of Exeter Univ. of Bristol Univ. of Bristol Univ. of Bristol Univ. of Bristol
13:50-14:10	MoB15.2	15:10-15:30	MoB16.6
<i>Unfalsified Adaptive Control with Reset and Bumpless Transfer</i> , pp. 1264-1270.		<i>Networked H^∞ Filtering of Semilinear Diffusion PDEs (I)</i> , pp. 1324-1329.	
Patil, Sagar Sung, Yu-chen Safonov, Michael G.	Univ. of Southern California Univ. of Southern California Univ. of Southern California	Bar am, Netzer Fridman, Emilia	Tel Aviv Univ Tel Aviv Univ
14:10-14:30	MoB15.3	MoB17	Atrium 3
<i>Detecting Oscillation with Unfalsified Adaptive Control and Its Application in Managed Pressure Drilling for Oil</i> , pp. 1271-1276.		Controllability and Stability of Networked Control Systems II (Invited Session)	
Jin, Huiyu Siahaan, Hardy B. Safonov, Michael G.	Xiamen Univ Int Res. Inst. of Stavanger Univ. of Southern California	Chair: Belabbas, Mohamed Ali Co-Chair: De Persis, Claudio Organizer: Belabbas, Mohamed Ali Organizer: Gharesifard, Bahman Organizer: Aguilar, Cesar	Univ. Illinois, Urbana-Champaign Univ. of Groningen Univ. Illinois, Urbana-Champaign Queens Univ. Canada California State Univ. Bakersfield
14:30-14:50	MoB15.4		
<i>Kernel-Based Reinforcement Learning for Traffic Signal Control with Adaptive Feature Selection</i> , pp. 1277-1282.			
Chu, Tianshu Wang, Jie Cao, Jian	Stanford Univ Stanford Univ Shanghai Jiaotong Univ		
14:50-15:10	MoB15.5		
<i>Unfalsified Adaptive Control: Multi-Objective Cost-Detectable Cost Functions</i> , pp. 1283-1288.			
Sajjanshetty, Kiran S. Safonov, Michael G.	Univ. of Southern California Univ. of Southern California		

13:30-13:50	MoB17.1	
<i>Fast Convergence of Quantized Consensus Using Metropolis Chains (I)</i> , pp. 1330-1334.		
Basar, Tamer	Univ. Illinois, Urbana-Champaign	
Etesami, Seyed Rasoul	Univ. Illinois, Urbana-Champaign	
Olshevsky, Alexander	Univ. Illinois, Urbana-Champaign	
13:50-14:10	MoB17.2	
<i>Control of MTDC Transmission Systems under Local Information (I)</i> , pp. 1335-1340.		
Andreasson, Martin	Royal Inst. of Tech	
Dimarogonas, Dimos V.	Royal Inst. of Tech	
Sandberg, Henrik	Royal Inst. of Tech	
Johansson, Karl Henrik	Royal Inst. of Tech	
14:10-14:30	MoB17.3	
<i>Geometrical Methods for Mismatched Formation Control (I)</i> , pp. 1341-1346.		
Helmke, Uwe R.	Univ. of Wuerzburg	
Mou, Shaoshuai	MIT	
Sun, Zhiyong	Australian National Univ	
Anderson, Brian D.O.	Australian National Univ	
14:30-14:50	MoB17.4	
<i>Decentralized Stabilization with Symmetric Topologies (I)</i> , pp. 1347-1352.		
Belabbas, Mohamed Ali	Univ. Illinois, Urbana-Champaign	
Kirkoryan, Artur	Univ. Illinois, Urbana-Champaign	
14:50-15:10	MoB17.5	
<i>Further Result about Dynamic Coupling for Nonlinear Output Agreement (I)</i> , pp. 1353-1358.		
Bürger, Mathias	Univ. of Stuttgart	
De Persis, Claudio	Univ. of Groningen	
15:10-15:30	MoB17.6	
<i>Controllability and Fraction of Leaders in Infinite Networks</i> , pp. 1359-1364.		
Enyioha, Chinwendu	Univ. of Pennsylvania	
Rahimian, Mohammad Amin	Univ. of Pennsylvania	
Pappas, George J.	Univ. of Pennsylvania	
Jadbabaie, Ali	Univ. of Pennsylvania	
MoB18	Olympic 3	
Privacy in Systems and Control I (Invited Session)		
Chair: Han, Shuo	Univ. of Pennsylvania	
Co-Chair: Le Ny, Jerome	Pol. Montreal	
13:30-13:50	MoB18.1	
<i>Privacy: A Few Definitional Aspects and Consequences for Minimax Mean-Squared Error (I)</i> , pp. 1365-1369.		
Foygel Barber, Rina	Univ. of Chicago	
Duchi, John	Stanford Univ	
13:50-14:10	MoB18.2	
<i>Design of Communication Networks for Distributed Computation with Privacy Guarantees (I)</i> , pp. 1370-1376.		
Pequito, Sergio	Carnegie Mellon Univ. - Inst. Superior Tecnico	
Kar, Soummya	Carnegie Mellon Univ	
Sundaram, Shreyas	Univ. of Waterloo	
Aguiar, A. Pedro	Univ. of Porto	
14:10-14:30	MoB18.3	
<i>The Privacy Analysis of Battery Control Mechanisms in Demand Response: Revealing State Approach and Rate Distortion Bounds (I)</i> , pp. 1377-1382.		
Yao, Jiyun	Lehigh Univ	
Venkitasubramaniam, Parv	Lehigh Univ	
14:30-14:50	MoB18.4	
<i>Physical Layer Methods for Privacy Provision in Distributed Control and Inference (I)</i> , pp. 1383-1388.		
Jain, Shalabh	Univ. of Maryland	
Ta, Tuan (Johnny)	Univ. of Maryland	
Baras, John S.	Univ. of Maryland	
14:50-15:10	MoB18.5	
<i>Delay and Sampling Independence of a Consensus Algorithm and Its Application to Smart Grid Privacy (I)</i> , pp. 1389-1394.		
Giraldo, Jairo	Univ. De Los Andes	
Cardenas, Alvaro	Univ. of Texas at Dallas	
Mojica-Nava, Eduardo	National Univ. of Colombia	
Quijano, Nicanor	Univ. De Los Andes	
Dong, Roy	Univ. of California at Berkeley	
15:10-15:30	MoB18.6	
<i>Dynamic Balanced Integration Mechanism for LQG Power Networks with Independent Types</i> , pp. 1395-1402.		
Murao, Toshiyuki	Waseda Univ	
Okajima, Yusuke	Waseda Univ	
Hirata, Kenji	Nagaoka Univ. of Tech	
Uchida, Kenko	Waseda Univ	
MoB19	Plaza 1	
Robotics II (Regular Session)		
Chair: Macchelli, Alessandro	Univ. of Bologna - Italy	
Co-Chair: Karaman, Sertac	Massachusetts Inst. of Tech.	
13:30-13:50	MoB19.1	
<i>An Impedance Grasping Strategy</i> , pp. 1403-1408.		
Munoz-Arias, Mauricio	Univ. of Groningen	
Scherpen, Jacquelien M.A.	Univ. of Groningen	
Macchelli, Alessandro	Univ. of Bologna	
13:50-14:10	MoB19.2	
<i>Optimal Control Strategies for Maximizing the Performance of Variable Stiffness Joints with Nonlinear Springs</i> , pp. 1409-1416.		
Özparpucu, Mehmet Can	German Aerospace Center (DLR)	
Albu-Schaeffer, Alin	German Aerospace Center (DLR)	
14:10-14:30	MoB19.3	
<i>Polling-Systems-Based Control of High-Performance Provably-Safe Autonomous Intersections</i> , pp. 1417-1423.		
Miculescu, David	Massachusetts Inst. of Tech	
Karaman, Sertac	Massachusetts Inst. of Tech	
14:30-14:50	MoB19.4	
<i>Reachability-Based Safe Learning with Gaussian Processes</i> , pp. 1424-1431.		
Akametalu, Anayo K.	UC Berkeley	
Fisac, Jaime F.	UC Berkeley	
Gillula, Jeremy	Stanford Univ	
Kaynama, Shahab	UC Berkeley	
Zeilinger, Melanie N.	UC Berkeley	
Tomlin, Claire J.	UC Berkeley	

14:50-15:10	MoB19.5	Salon D and E
<i>Controlling Stochastic Growth Processes on Lattices: Wildfire Management with Robotic Fire Extinguishers</i> , pp. 1432-1437.		
Somanath, Amith	Massachusetts Inst. of Tech	Northeastern Univ.
Karaman, Sertac	Massachusetts Inst. of Tech	CNR-IEIIT
Youcef-Toumi, Kamal	Massachusetts Inst. of Tech	Northeastern Univ.
15:10-15:30	MoB19.6	MoB21.1
<i>Robot Navigation under Uncertainties Using Event Based Sampling</i> , pp. 1438-1445.		
Colledanchise, Michele	KTH - Royal Inst. of Tech	Univ. of Padova
Dimarogonas, Dimos V.	KTH - Royal Inst. of Tech	Univ. of Padova
Ogren, Petter	KTH - Royal Inst. of Tech	Univ. of Padova
MoB20	Plaza 2	MoB21.2
Consensus II (Regular Session)		
Chair: Shim, Hyungbo	Seoul National Univ.	Pol. di Torino
Co-Chair: Swami, Ananthram	Army Res. Lab	Pol. di Torino
13:30-13:50	MoB20.1	MoB21.3
<i>Consensus under Time-Delayed Information on States and Network</i> , pp. 1446-1451.		
Lee, Jin Gyu	Seoul National Univ	Univ. of Iowa
Shim, Hyungbo	Seoul National Univ	
13:50-14:10	MoB20.2	MoB21.4
<i>Graph Topology Optimization for Fast Consensus Based on the Influence of New Links to a Quadratic Criterion</i> , pp. 1452-1457.		
Charalampidis, Alexandros	National Tech. Univ. of Athens	Northeastern Univ
14:10-14:30	MoB20.3	Northeastern Univ
<i>Distributed Linear Supervisory Control</i> , pp. 1458-1463.		
Khanafer, Ali	Univ. of Illinois, Urbana-Champaign	Northeastern Univ
Basar, Tamer	Univ. of Illinois, Urbana-Champaign	Northeastern Univ
Liberzon, Daniel	Univ. of Illinois, Urbana-Champaign	Univ. of Michigan
14:30-14:50	MoB20.4	Pennsylvania State Univ
<i>Complex Constrained Consensus</i> , pp. 1464-1469.		
Liu, Ji	Univ. of Illinois, Urbana-Champaign	
Nedich, Angelia	Univ. of Illinois, Urbana-Champaign	
Basar, Tamer	Univ. of Illinois, Urbana-Champaign	
14:50-15:10	MoB20.5	MoC01.1
<i>Minimum-Energy Distributed Consensus of Uncertain Agents</i> , pp. 1470-1475.		
Zamani, Mohammad	Univ. of New South Wales	UC Berkeley
Shames, Iman	The Univ. of Melbroune	Massachusetts Inst. of Tech
Ugrinovskii, Valery	Univ. of New South Wales	UC Berkeley
15:10-15:30	MoB20.6	MoC01.2
<i>Success and Failure of Adaptation-Diffusion Algorithms for Consensus in Multi-Agent Networks</i> , pp. 1476-1481.		
Moral, Gemma	Telecom ParisTech	Massachusetts Inst. of Tech
Bianchi, Pascal	Telecom ParisTech - CNRS/LTCI	Massachusetts Inst. of Tech
MoC01	Salon F	MoC01.3
Stability of Hybrid Systems (Regular Session)		
Chair: Azuma, Shun-ichi	Kyoto Univ.	
Co-Chair: Akbari Hamed, Kaveh	The Univ. of Michigan	
16:00-16:20		
<i>Convex Computation of the Reachable Set for Controlled Polynomial Hybrid Systems</i> , pp. 1499-1506.		
Shia, Victor	UC Berkeley	
Vasudevan, Ramanarayanan	Massachusetts Inst. of Tech	
Bajcsy, Ruzena	UC Berkeley	
Tedrake, Russ	Massachusetts Inst. of Tech	
16:20-16:40		
<i>Continuous-Time Controllers for Stabilizing Periodic Orbits of Hybrid Systems: Application to an Underactuated 3D Bipedal Robot</i> , pp. 1507-1513.		
Akbari Hamed, Kaveh	Univ. of Michigan	
Buss, Brian G.	Univ. of Michigan	
Grizzle, Jessy W.	Univ. of Michigan	
16:40-17:00		
<i>Lyapunov-Based versus Poincare Map Analysis of the Rimless Wheel</i> , pp. 1514-1520.		
Saglam, Cenk Oguz	Univ. of California, Santa Barbara	
Teel, Andrew R.	Univ. of California, Santa Barbara	
Byl, Katie	Univ. of California, Santa Barbara	

17:00-17:20	MoC01.4
<i>Structural Monostability of Activation-Inhibition Boolean Networks</i> , pp. 1521-1526.	
Azuma, Shun-ichi	Kyoto Univ
Yoshida, Takahiro	Kyoto Univ
Sugie, Toshiharu	Kyoto Univ
17:20-17:40	MoC01.5
<i>Set Theory Conditions for Stability of Linear Impulsive Systems</i> , pp. 1527-1532.	
Fiacchini, Mirko	GIPSA-Lab
Morarescu, Irinel-Constantin	Cran Cnrs Umr 7039 - UI
17:40-18:00	MoC01.6
<i>Output Feedback Control for a Class of Switching Discrete-Time Linear Systems</i> , pp. 1533-1538.	
Alessandri, Angelo	Univ. of Genoa
Bedouhene, Fazia	Univ. of Mouloud Mammeri
Kheloufi, Houria	Univ. of Mouloud Mammeri
Zemouche, Ali	Univ. of Lorraine
MoC02	Salon G
Nonlinear Systems III (Regular Session)	
Chair: Margaliot, Michael	Tel Aviv Univ.
Co-Chair: Wu, Andy	Univ. of California, Los Angeles
16:00-16:20	MoC02.1
<i>On Three Generalizations of Contraction</i> , pp. 1539-1544.	
Sontag, Eduardo D.	Rutgers Univ
Margaliot, Michael	Tel Aviv Univ
Tuller, Tamir	Tel Aviv Univ
16:20-16:40	MoC02.2
<i>Minimum-Time Control of Boolean Networks: An Algebraic Approach</i> (I), pp. 1545-1550.	
Laschov, Dmitriy	Tel Aviv Univ
Margaliot, Michael	Tel Aviv Univ
16:40-17:00	MoC02.3
<i>Feedback Control for Oscillations with CPG Architecture</i> , pp. 1551-1556.	
Wu, Andy	Univ. of California, Los Angeles
Iwasaki, Tetsuya	Univ. of California, Los Angeles
17:00-17:20	MoC02.4
<i>Further Results on Lyapunov-Like Conditions of Forward Invariance and Boundedness for a Class of Unstable Systems</i> (I), pp. 1557-1562.	
Gorban, Alexander N.	ETH-Zentrum
Tyukin, Ivan	Univ. of Leicester
Nijmeijer, Hendrik	Eindhoven Univ. of Tech
17:20-17:40	MoC02.5
<i>Dynamic Interconnection and Damping Assignment</i> , pp. 1563-1568.	
Nunna, Kameswaran	Imperial Coll. London
Sassano, Mario	Univ. of Rome, Tor Vergata
Astolfi, Alessandro	Imperial Coll. & Univ. of Rome
17:40-18:00	MoC02.6
<i>State Observer Design for Non Linear Coupled Partial Differential Equations with Application to Radiative-Conductive Heat Transfer Systems</i> , pp. 1569-1574.	
Ghattassi, Mohamed	Univ. De Lorraine
Boutayeb, Mohamed	Univ. of Henri Poincaré Nancy

MoC03	Salon H
Max-Plus Methods for Optimal Control and Zero-Sum Games (Invited Session)	
Chair: Akian, Marianne	INRIA and CMAP, Ec. Pol
Co-Chair: Qu, Zheng	Univ. of Edinburgh
Organizer: Akian, Marianne	INRIA and CMAP, Ec. Pol
16:00-16:20	MoC03.1
<i>A Max-Plus Based Randomized Algorithm for Solving a Class of HJB PDEs</i> (I), pp. 1575-1580.	
Qu, Zheng	Univ. of Edinburgh
16:20-16:40	MoC03.2
<i>Generic Uniqueness of the Bias Vector of Mean Payoff Zero-Sum Games</i> (I), pp. 1581-1587.	
Akian, Marianne	INRIA and CMAP, Ec. Pol
Gaubert, Stephane	INRIA and Ec. Pol
Hochart, Antoine	Ec. Pol
16:40-17:00	MoC03.3
<i>Approximate Dynamic Programming with (min, +) Linear Function Approximation for Markov Decision Processes</i> (I), pp. 1588-1593.	
Lakshminarayanan, Chandrashekar	Indian Inst. of Science, Bangalore
Bhatnagar, Shalabh	Indian Inst. of Science
17:00-17:20	MoC03.4
<i>Generalizations of Bounds on the Index of Convergence to Weighted Digraphs</i> (I), pp. 1594-1599.	
Merlet, Glenn	Univ. D'Aix-Marseille
Nowak, Thomas	École Normale Supérieure
Schneider, Hans	Univ. of Wisconsin - Madison
Sergeev, Sergei	Univ. of Birmingham
17:20-17:40	MoC03.5
<i>Non-Linear Eigenvalue Problems Arising from Growth Maximization of Positive Linear Dynamical Systems</i> (I), pp. 1600-1607.	
Calvez, Vincent	Ec. Normale Supérieure De Lyon
Gabriel, Pierre	Univ. De Versailles St-Quentin-En-Yvelines
Gaubert, Stephane	INRIA and Ec. Pol
17:40-18:00	MoC03.6
<i>Analytic Expressions in Stochastic Max-Plus-Linear Algebra</i> , pp. 1608-1613.	
van den Boom, Ton J. J.	Delft Univ. of Tech
De Schutter, Bart	Delft Univ. of Tech
MoC04	Salon I
Observers for Linear Systems (Regular Session)	
Chair: Perruquetti, Wilfrid	Ec. Centrale de Lille
Co-Chair: Alma, Marouane	CRAN Lorraine Univ.
16:00-16:20	MoC04.1
<i>Predictor-Based Sampled-Data Stabilization Via Continuous-Discrete Observers</i> , pp. 1614-1619.	
Mazenc, Frederic	Epi Inria Disco
Fridman, Emilia	Tel Aviv Univ
16:20-16:40	MoC04.2
<i>Secure State Estimation and Control Using Multiple (insecure) Observers</i> , pp. 1620-1625.	
Mishra, Shaunak	Univ. of California, Los Angeles
Karamchandani, Nikhil	Univ. of California, Los Angeles

Tabuada, Paulo	Univ. of California, Los Angeles	<i>Team Optimal Control of Coupled Subsystems with Mean-Field Sharing</i> , pp. 1669-1674.
Diggavi, Suhas	Univ. of California, Los Angeles	
16:40-17:00	MoC04.3	
<i>Finite-Time Observer for the Output Depending Observer Form</i> , pp. 1626-1630.		
Zheng, Gang	Inria	Arabneydi, Jalal
Efimov, Denis	Inria - Lne	Mahajan, Aditya
Perruquetti, Wilfrid	Ec. Centrale De Lille	McGill Univ McGill Univ
17:00-17:20	MoC04.4	MoC05.5
<i>H∞ Dynamic Observer Design for Linear Time Invariant Systems</i> , pp. 1631-1636.		<i>Balancing through Signaling in Decentralized Routing</i> , pp. 1675-1680.
Gao, Nan	CRAN Lorraine Univ	Ouyang, Yi
Darouach, Mohamed	CRAN Lorraine Univ	Teneketzis, Demosthenis
Voos, Holger	Univ. of Luxembourg	Univ. of Michigan Univ. of Michigan
Alma, Marouane	CRAN Lorraine Univ	
17:20-17:40	MoC04.5	MoC05.6
<i>Interval Observers Design for Singularly Perturbed Systems</i> , pp. 1637-1642.		<i>Existence of Optimal Strategies in a Class of Dynamic Stochastic Teams</i> , pp. 1681-1686.
Yousfi, Besma	National Engineering School of Gabes	Gupta, Abhishek
Raïssi, Tarek	Conservatoire National Des Arts Et Métiers	Yuksel, Serdar
Amairi, Messaoud	National Engineering School of Gabes	Basar, Tamer
Aoun, Mohamed	National Engineering School of Gabes	Univ. Illinois, Urbana Champaign Queen's Univ Univ. Illinois, Urbana Champaign
17:40-18:00	MoC04.6	
<i>An Inverse Problem of Tomographic Type in Population Dynamics</i> , pp. 1643-1648.		
Zeng, Shen	Univ. of Stuttgart	
Waldherr, Steffen	Otto-Von-Guericke-Univ	
Allgöwer, Frank	Univ. of Stuttgart	
MoC05	Salon J	
Decentralized Control (Regular Session)		
Chair: Scardovi, Luca	Univ. of Toronto	Rensselaer Pol. Inst.
Co-Chair: Gupta, Abhishek	Univ. Illinois, Urbana Champaign	North Carolina State Univ.
16:00-16:20	MoC05.1	MoC06.1
<i>A Class of Rendezvous Controllers for Underactuated Thrust-Propelled Rigid Bodies</i> , pp. 1649-1654.		<i>Distribution Network Electricity Market Clearing: Parallelized PMP Algorithms with Minimal Coordination</i> , pp. 1687-1694.
Roza, Ashton	Univ. of Toronto	Ntakou, Elli
Maggiore, Manfredi	Univ. of Toronto	Caramanis, Michael C.
Scardovi, Luca	Univ. of Toronto	Boston Univ Boston Univ
16:20-16:40	MoC05.2	MoC06.2
<i>H Infinity Almost Output Synchronization for Heterogeneous Networks without Exchange of Controller States</i> , pp. 1655-1660.		<i>Stability of an Adaptive Switched Controller for Power System Oscillation Damping Using Remote Synchrophasor Signals</i> , pp. 1695-1700.
Zhang, Meirong	Washington State Univ	R. Pour Safaei, Farshad
Saberi, Ali	Washington State Univ	Ghiocel, Scott G.
Stoorvogel, Anton A.	Univ. of Twente	Hespanha, Joao P.
Grip, Håvard Fjær	NTNU	Chow, Joe H.
16:40-17:00	MoC05.3	Rensselaer Pol. Inst
<i>Localized LQR Optimal Control</i> , pp. 1661-1668.		MoC06.3
Wang, Yuh-Shyang	California Inst. of Tech	<i>Cost Allocation Strategies for Wide-Area Control of Power Systems Using Nash Bargaining Solution</i> , pp. 1701-1706.
Matni, Nikolai	California Inst. of Tech	Lian, Feier
Doyle, John C.	California Inst. of Tech	Duel-Hallen, Alexandra
17:00-17:20	MoC05.4	Chakrabortty, Aranya
<i>Gaussian-Laplacian Mixture Model for Electricity Market</i> , pp. 1720-1726.		North Carolina State Univ North Carolina State Univ North Carolina State Univ
Shenoy, Saahil		MoC06.4
Gorinevsky, Dimitry		<i>Forward Electricity Markets with Uncertain Supply: Cost Sharing and Efficiency Loss</i> , pp. 1707-1713.
17:20-17:40	MoC05.5	Lin, Weixuan
		Cornell Univ
		Bitar, Eilyan
17:40-18:00	MoC06.5	Cornell Univ
<i>Duration-Differentiated Energy Services with a Continuum of Loads</i> , pp. 1714-1719.		
Nayyar, Ashutosh	Univ. of Southern California	
Negrete-Pincetic, Matias	Univ. of California, Berkeley	
Poolla, Kameshwar	Univ. of California, Berkeley	
Varaiya, Pravin P.	Univ. of California, Berkeley	
17:40-18:00	MoC06.6	
<i>Gaussian-Laplacian Mixture Model for Electricity Market</i> , pp. 1720-1726.		
Shenoy, Saahil		Stanford Univ
Gorinevsky, Dimitry		Stanford Univ
17:00-17:20	MoC05.6	

MoC07	Salon 7	MoC08.3	
Traffic Control (Regular Session)			
Chair: Balakrishnan, Hamsa	Massachusetts Inst. of Tech.	Ninness, Brett	
Co-Chair: Moulin, Philippe	IFP Energies Nouvelles	Univ. of Newcastle	
16:00-16:20	MoC07.1	Tran, Khoa	
<i>Robust H_{infinity} Control of a Class of Switched Nonlinear Systems with Application to Macroscopic Urban Traffic Control</i> , pp. 1727-1732.			
Hajiahmadi, Mohammad	Delft Univ. of Tech	Kellett, Christopher M.	
De Schutter, Bart	Delft Univ. of Tech	Univ. of Newcastle	
Hellendoorn, Hans	Delft Univ. of Tech	Univ. of Newcastle	
16:20-16:40	MoC07.2	MoC08.4	
<i>A Piecewise-Deterministic Markov Model of Freeway Accidents</i> , pp. 1733-1740.			
Jin, Li	Massachusetts Inst. of Tech	Pasha, Syed Ahmed	
Amin, Saurabh	Massachusetts Inst. of Tech	Univ. of New South Wales	
16:40-17:00	MoC07.3	Solo, Victor	Univ. of New South Wales
<i>Time-Varying Triggering Conditions for the Robust Control of Freeway Systems</i> , pp. 1741-1746.			
Ferrara, Antonella	Univ. of Pavia	MoC08.5	
Sacone, Simona	Univ. of Genoa	Chen, Fengwei	
Siri, Silvia	Univ. of Genoa	Garnier, Hugues	
17:00-17:20	MoC07.4	Gilson, Marion	Univ. of Lorraine
<i>Urban Traffic Eco-Driving: Speed Advisory Tracking</i> , pp. 1747-1752.			
De Nunzio, Giovanni	IFPen, INP Grenoble	MoC08.6	
Canudas de Wit, Carlos	CNRS, GIPSA-Lab	Romano, Rodrigo Alvite	
Moulin, Philippe	IFP Energies Nouvelles	Inst. Mauá De Tecnologia	
17:20-17:40	MoC07.5	Pait, Felipe	Univ. Sao Paulo
<i>Analysis and Design of a Variable Speed Limit Control System at a Freeway Lane-Drop Bottleneck: A Switched Systems Approach</i> , pp. 1753-1758.			
Jin, Wen-Long	Univ. of California, Irvine	MoC09.1	
Jin, Huiyu	Xiamen Univ	Chen, Boli	
17:40-18:00	MoC07.6	Pin, Gilberto	
<i>Increasing Efficiency Through Flexibility in Airport Resource Allocation</i> , pp. 1759-1766.			
Ramanujam, Varun	Massachusetts Inst. of Tech	Parisini, Thomas	
Balakrishnan, Hamsa	Massachusetts Inst. of Tech	Imperial Coll. & Univ. of Trieste	
MoC08	Salon 8	École Pol. de Montréal	
System Identification III (Regular Session)			
Chair: Karlsson, Johan	KTH Royal Inst. of Tech.	MoC09.2	
Co-Chair: Pait, Felipe	Univ. Sao Paulo	Robust Parametric Estimation of Biased Sinusoidal Signals: A Parallel Pre-Filtering Approach	
16:00-16:20	MoC08.1	pp. 1804-1809.	
<i>On Robustness of L1-Regularization Methods for Spectral Estimation</i> , pp. 1767-1773.			
Karlsson, Johan	KTH Royal Inst. of Tech	Chen, Boli	
Ning, Lipeng	Harvard Medical School	Imperial Coll. London	
16:20-16:40	MoC08.2	Pin, Gilberto	
<i>Interval System Identification for MIMO ARX Models of Minimal Order</i> , pp. 1774-1779.			
Zaiser, Stefan	Univ. of Ulm	Parisini, Thomas	
Buchholz, Michael	Univ. of Ulm	Imperial Coll. & Univ. of Trieste	
Dietmayer, Klaus Christian	Univ. of Ulm	MoC09.3	
Jürgen		Distributed Estimation of Multi-Agent Systems with Coupling in the Measurements: Bulk Algorithm and Approximate Kalman-Type Filtering	
17:00-17:20	MoC08.3	pp. 1810-1815.	
<i>MMOSPA-Based Track Extraction in the PHD Filter - a Justification for K-Means Clustering</i> , pp. 1816-1821.			
Baum, Marcus	Karlsruhe Inst. of Tech. (KIT)	Abedinpour Fallah, Mehdi	
Willett, Peter K.	Univ. of Connecticut	Malhame, Roland P.	
Hanebeck, Uwe D.	Karlsruhe Inst. of Tech. (KIT)	Martinelli, Francesco	
17:20-17:40	MoC08.4	Univ. Di Roma Tor Vergata	
<i>Macroscopic Analysis of Crowd Motion in Video Sequences</i> , pp. 1822-1827.			
Nakhmani, Arie	Univ. of Alabama at Birmingham	MoC09.4	
Surana, Amit	United Tech. Res. Center	Tannenbaum, Allen	
		Univ. of Alabama at Birmingham	
17:40-17:55	MoC08.5	MoC09.5	
<i>UIO Approach for Estimation of Non Linear Components Behavior</i> , pp. 1828-1833.			
Tarasov, Evgeny	Ec. Centrale De Lille		

Sueur, Christophe Ould Bouamama, Belkacem	Ec. Centrale De Lille Lail	MoC11.1
17:40-18:00	MoC09.6	
<i>Estimation of Actuator and Sensor Faults for Nonlinear Systems Using a Descriptor System Approach</i> , pp. 1834-1839.		
Zhang, Jian Swain, Akshya Nguang, Sing Kiong Nasiri, Alireza	Univ. of Auckland Univ. of Auckland Univ. of Auckland The Univ. of Auckland	KAIST KAIST
MoC10	Salon 10	
Stochastic Optimal Control (Regular Session)		
Chair: Rutquist, Per Co-Chair: Charalambous, Charalambos D.	Tomlab Optimization AB Univ. of Cyprus	
16:00-16:20	MoC10.1	MoC11.3
<i>Solving the Hamilton-Jacobi-Bellman Equation for a Stochastic System with State Constraints</i> , pp. 1840-1845.		
Rutquist, Per Wik, Torsten Breitholtz, Claes	Tomlab Optimization Chalmers Univ. of Tech Chalmers Univ. of Tech	Arizona State Univ Arizona State Univ
16:20-16:40	MoC10.2	MoC11.4
<i>Maximum Principle for Decentralized Stochastic Differential Decision Systems</i> , pp. 1846-1851.		
Charalambous, Charalambos D. Ahmed, Nasir	Univ. of Cyprus Univ. of Ottawa	Northwestern Univ Northwestern Univ
16:40-17:00	MoC10.3	MoC11.5
<i>Optimal Stabilizing Controllers for Discrete-Time Linear Systems with Markovian Jumping Parameters under State Measurements</i> , pp. 1852-1857.		
Dragan, Vasile Costa, Eduardo F.	Romanian Acad Univ. Sao Paulo	Pennsylvania State Univ Pennsylvania State Univ
17:00-17:20	MoC10.4	MoC11.6
<i>A Martingale Approach and Time-Consistent Sampling-Based Algorithms for Risk Management in Stochastic Optimal Control</i> , pp. 1858-1865.		
Huynh, Vu Kogan, Leonid Fazzoli, Emilio	Massachusetts Inst. of Tech Sloan School of Management, MIT Massachusetts Inst. of Tech	Georgia 2
17:20-17:40	MoC10.5	
<i>Domain Decomposition for Stochastic Optimal Control</i> , pp. 1866-1873.		
Horowitz, Matanya Papusha, Ivan Burdick, Joel W.	California Inst. of Tech California Inst. of Tech California Inst. of Tech	
17:40-18:00	MoC10.6	MoC12.1
<i>From Collatz-Weilandt to Donkser-Varadhan Via Krein-Rutman (I)</i> , pp. 1874-1879.		
Arapostathis, Ari Borkar, Vivek Kumar, Suresh	The Univ. of Texas at Austin Indian Inst. of Tech. Indian Inst. of Tech.	
MoC11	Georgia 1	
Optimization III (Regular Session)		
Chair: Choi, Han-Lim Co-Chair: Kishida, Masako	KAIST Univ. of Canterbury	
16:00-16:20		MoC12.2
<i>Periodic Sensing Trajectory Generation for Persistent Monitoring</i> , pp. 1880-1886.		
Ha, Jung-Su Choi, Han-Lim		
16:20-16:40		MoC12.3
<i>Generalized Gradient Elements for Nonsmooth Optimal Control Problems</i> , pp. 1887-1892.		
Khan, Kamil Barton, Paul	Massachusetts Inst. of Tech Massachusetts Inst. of Tech	
16:40-17:00		MoC12.4
<i>Towards Data-Centric Input Signal Design Using Sparse Polynomial Optimization</i> , pp. 1893-1898.		
Deshpande, Sunil Rivera, Daniel E.	Arizona State Univ Arizona State Univ	
17:00-17:20		
<i>Simulation-Based Method for Optimizing Multi-Echelon Inventory Systems</i> , pp. 1899-1904.		
Chu, Yunfei You, Fengqi	Northwestern Univ Northwestern Univ	
17:20-17:40		
<i>Volume Maximization of Consistent Parameter Sets for Linear Fractional Models</i> , pp. 1905-1910.		
Kishida, Masako Braatz, Richard D.	Univ. of Canterbury Massachusetts Inst. of Tech	
17:40-18:00		
<i>Reconstruction of Support of a Measure from Its Moments</i> , pp. 1911-1916.		
M. Jasour, Ashkan Lagoa, Constantino M.	Pennsylvania State Univ Pennsylvania State Univ	
MoC12	Georgia 2	
Game Theory III (Regular Session)		
Chair: Bopardikar, Shaunak D. Co-Chair: Kim, Kwang-Ki	United Tech. Res. Center, Inc. Georgia Inst. of Tech.	
16:00-16:20		MoC12.5
<i>The Impact of Observation and Action Errors on Informational Cascades</i> , pp. 1917-1922.		
Le, Tho Subramanian, Vijay G. Berry, Randall	Northwestern Univ Northwestern Univ Northwestern Univ	
16:20-16:40		MoC12.6
<i>Stability of Nash Equilibria in the Congestion Game under Replicator Dynamics</i> , pp. 1923-1929.		
Drighès, Benjamin Krichene, Walid Bayen, Alexandre	Ec. Pol Univ. of California, Berkeley Univ. of California, Berkeley	
16:40-17:00		MoC12.7
<i>LP Formulation of Asymmetric Zero-Sum Stochastic Games</i> , pp. 1930-1935.		
Li, Lichun Shamma, Jeff S.	Georgia Inst. of Tech Kaust	
17:00-17:20		MoC12.8
<i>Incremental Approximate Saddle-Point Computation in Zero-Sum Matrix Games</i> , pp. 1936-1941.		
Bopardikar, Shaunak D.	United Tech. Res. Center, Inc	

Langbort, Cedric	Univ. Illinois, Urbana-Champaign		
17:20-17:40	MoC12.5		
<i>Multi-Agent Sequential Hypothesis Testing</i> , pp. 1942-1947.			
Kim, Kwang-Ki	Georgia Inst. of Tech		
Shamma, Jeff S.	Kaust		
MoC13	Atrium 1		
Delay Systems III (Regular Session)			
Chair: Shafai, Bahram	Northeastern Univ.		
Co-Chair: Ebihara, Yoshio	Kyoto Univ.		
16:00-16:20	MoC13.1		
<i>Positive Stabilization with Maximum Stability Radius for Linear Time-Delay Systems</i> , pp. 1948-1953.			
Shafai, Bahram	Northeastern Univ.		
Oghbaee, Amirreza	Northeastern Univ.		
Tanaka, Takashi	Massachusetts Inst. of Tech		
16:20-16:40	MoC13.2		
<i>Persistence Analysis of Interconnected Positive Systems with Communication Delays</i> , pp. 1954-1959.			
Ebihara, Yoshio	Kyoto Univ		
Peaucelle, Dimitri	LAAS-CNRS, Univ. De Toulouse		
Arzelier, Denis	Laas-Cnrs		
16:40-17:00	MoC13.3		
<i>Necessary Conditions for the Exponential Stability of a Class of Distributed Delay-Systems</i> , pp. 1960-1965.			
Cuvas, Carlos	Cinvestav-IPN		
Mondié, Sabine	Cinvestav-IPN		
17:00-17:20	MoC13.4		
<i>Truncated State Prediction for Control of Lipschitz Nonlinear Systems with Input Delay</i> , pp. 1966-1971.			
Ding, Zhengtao	Univ. of Manchester		
Lin, Zongli	Univ. of Virginia		
17:20-17:40	MoC13.5		
<i>Inverse Optimality for a Class of Nonlinear Time Delay Systems: A Constructive Approach</i> , pp. 1972-1977.			
Rodríguez, Liliam	Cinvestav-IPN		
Santos, Omar	Univ. Aut. Del Estado De Hidalgo		
Mondié, Sabine	Cinvestav-IPN		
17:40-18:00	MoC13.6		
<i>On Dwell Time Minimization for Switched Delay Systems: Free-Weighting Matrices Method</i> , pp. 1978-1982.			
Koru, Ahmet Taha	Yildiz Tech. Univ		
Delibasi, Akin	Yildiz Tech. Univ		
Ozbay, Hitay	Bilkent Univ		
MoC14	Olympic 1		
Event-Triggered Systems II (Regular Session)			
Chair: Ren, Wei	Univ. of California, Riverside		
Co-Chair: Trimpe, Sebastian	Max Planck Inst. for Intelligent Systems		
16:00-16:20	MoC14.1		
<i>Decentralized Consensus for Linear Multi-Agent Systems under General Directed Graphs Based on Event-Triggered/Self-Triggered Strategy</i> , pp. 1983-1988.			
Yang, Dapeng	Beijing Inst. of Tech		
Ren, Wei	Univ. of California, Riverside		
Liu, Xiangdong	Beijing Inst. of Tech		
16:20-16:40	MoC14.2		
<i>Event-Triggered Control with Bounded Data Rate</i> , pp. 1989-1994.			
Tallapragada, Pavankumar	Univ. of California, San Diego		
Cortes, Jorge	Univ. of California, San Diego		
16:40-17:00	MoC14.3		
<i>Distributed Estimation of 1-D Convection-Diffusion Phenomena by Discrete-Time Event-Triggered Consensus Dynamics</i> , pp. 1995-2000.			
Muranishi, Yu	Osaka Univ		
Hamada, Kenta	Osaka Univ		
Hayashi, Naoki	Osaka Univ		
Takai, Shigemasa	Osaka Univ		
17:00-17:20	MoC14.4		
<i>On the Robustness of Event-Based Synchronization under Switching Interactions</i> , pp. 2001-2006.			
Shisheh Foroush, Hamed	Univ. of California at San Diego		
Martinez, Sonia	Univ. of California at San Diego		
17:20-17:40	MoC14.5		
<i>Distributed Event-Triggered Optimization for Linear Programming</i> , pp. 2007-2012.			
Richert, Dean	Univ. of California, San Diego		
Cortes, Jorge	Univ. of California, San Diego		
17:40-18:00	MoC14.6		
<i>Stability Analysis of Distributed Event-Based State Estimation</i> , pp. 2013-2019.			
Trimpe, Sebastian	Max Planck Inst. for Intelligent Systems		
MoC15	Atrium 2		
Robust Adaptive Control (Regular Session)			
Chair: Pisano, Alessandro	Univ. of Cagliari		
Co-Chair: Yamakita, Masaki	Tokyo Inst. of Tech.		
16:00-16:20	MoC15.1		
<i>Robust Self-Tuning Controller under Outliers</i> , pp. 2020-2025.			
Kaneda, Yasuaki	Tokyo Metropolitan Industrial Tech. Res. Inst		
Irizuki, Yasuharu	Tokyo Metropolitan Industrial Tech. Res. Inst		
Yamakita, Masaki	Tokyo Inst. of Tech		
16:20-16:40	MoC15.2		
<i>Data-Driven Online Unfalsified Control by Using Analytic Center</i> , pp. 2026-2031.			
Saeki, Masami	Hiroshima Univ		
Kondo, Ko	Hiroshima Univ		
Wada, Nobutaka	Hiroshima Univ		
Satoh, Satoshi	Hiroshima Univ		
16:40-17:00	MoC15.3		
<i>Adaptive Robust Model Predictive Control of Nonlinear Systems Using Tubes Based on Interval Inclusions</i> , pp. 2032-2037.			
Hariprasad, K	IIT Bombay		
Bhartiya, Sharad	IIT Bombay		
17:00-17:20	MoC15.4		
<i>Time-Based Adaptive Second Order Sliding Mode Controller for Wind Energy Conversion Optimization</i> , pp. 2038-2043.			
Evangelista, Carolina	CONICET and LEICI, Facultad De		

Pisano, Alessandro	Ingeniería, Univ. Nacional	Co-Chair: Ishii, Hideaki	Tokyo Inst. of Tech.
Puleston, Paul Frederick	Univ. of Cagliari	Organizer: Frasca, Paolo	Univ. of Twente
Usai, Elio	Univ. Nacional De La Plata	Organizer: Ishii, Hideaki	Tokyo Inst. of Tech.
	Univ. of Cagliari	Organizer: Ravazzi, Chiara	Pol. di Torino
17:20-17:40	MoC15.5	Organizer: Tempo, Roberto	CNR-IEIIT, Pol. di Torino
<i>Third Order Sliding Mode Controller Based on Adaptive Integral Sliding Mode Concept: Experimental Application to an Electropneumatic Actuator</i> , pp. 2044-2049.		16:00-16:20	MoC17.1
Taleb, Mohammed	IRCCyN-Ec. Centrale De Nantes	<i>Opinion Dynamics in Coalitional Games with Transferable Utilities (I)</i> , pp. 2094-2099.	
Yan, Xinming	LUNAM Univ. IRCCyN-Ec. Centrale De Nantes	Bauso, Dario	Univ. di Palermo
Plestan, Franck	Ec. Centrale De Nantes-IRCCyN	Basar, Tamer	Univ. of Illinois, Urbana-Champaign
17:40-18:00	MoC15.6	16:20-16:40	MoC17.2
<i>A Nonparametric Adaptive Nonlinear Statistical Filter</i> , pp. 2050-2057.		<i>Dynamics in Network Games with Local Coordination and Global Congestion Effects (I)</i> , pp. 2100-2105.	
Busch, Michael	Univ. of California, Santa Barbara	Brero, Gianluca	Pol. di Torino
Moehlis, Jeff	Univ. of California, Santa Barbara	Como, Giacomo	Lund Univ
		Fagnani, Fabio	Pol. di Torino
MoC16	Olympic 2	16:40-17:00	MoC17.3
Distributed Parameter Systems II (Regular Session)			
Chair: Dashkovskiy, Sergey	Univ. of Applied Sciences Erfurt	<i>Fluctuation Analysis of a Long-Range Opinion Dynamics (I)</i> , pp. 2106-2111.	
Co-Chair: Hasan, Agus	NTNU	Zhang, Jiangbo	Chinese Acad. of Sciences
16:00-16:20	MoC16.1	Hong, Yiguang	Chinese Acad. of Sciences
<i>Disturbance Attenuation of \$n+1\$ Coupled Hyperbolic PDEs</i> , pp. 2058-2064.		17:00-17:20	MoC17.4
Hasan, Agus	NTNU	<i>Consensus and Polarization in Altafini's Model with Bidirectional Time-Varying Network Topologies (I)</i> , pp. 2112-2117.	
16:20-16:40	MoC16.2	Proskurnikov, Anton	Univ. of Groningen
<i>Dyadic Perturbation Observer Framework for Control of a Class of Nonlinear PDE/ODE Systems</i> , pp. 2065-2070.		Matveev, Alexey S.	St.Petersburg Univ
Paranjape, Aditya A.	McGill Univ	Cao, Ming	Univ. of Groningen
Chung, Soon-Jo	Univ. of Illinois, Urbana-Champaign	17:20-17:40	MoC17.5
16:40-17:00	MoC16.3	<i>A Lifting Approach to Models of Opinion Dynamics with Antagonisms (I)</i> , pp. 2118-2123.	
<i>Stability of Nonlinear Infinite Dimensional Impulsive Systems and Their Interconnections (I)</i> , pp. 2071-2076.		Hendrickx, Julien M.	Univ. Catholique De Louvain
Dashkovskiy, Sergey	Univ. of Applied Sciences Erfurt	17:40-18:00	MoC17.6
Mironchenko, Andrii	Univ. of Würzburg	<i>On the Properties of Optimal Weak Links in Consensus Networks (I)</i> , pp. 2124-2129.	
17:00-17:20	MoC16.4	Fardad, Makan	Syracuse Univ
<i>Scattering Representations of Dirac Structures for Infinite Dimensional Network Systems (I)</i> , pp. 2077-2082.		Zhang, Xi	Syracuse Univ
Iftime, Orest V.	Univ. of Groningen	Lin, Fu	Argonne National Lab
Sandovici, Adrian	"Gheorghe Asachi" Tech. Univ	Jovanovic, Mihailo	Univ. of Minnesota
17:20-17:40	MoC16.5		
<i>Output Feedback Control of the Linear Korteweg-De Vries Equation</i> , pp. 2083-2087.			
Marx, Swann	ENS De Cachan		
Corpa, Eduardo	Univ. Técnica Federico Santa María		
17:40-18:00	MoC16.6		
<i>Time, Space, and Space-Time Hybrid Clustering POD with Application to the Burgers' Equation (I)</i> , pp. 2088-2093.			
Sahyoun, Samir	Univ. of Tennessee	Wang, Yu	Univ. Illinois, Urbana-Champaign
Djouadi, Seddik, M.	Univ. of Tennessee	Huang, Zhenqi	Univ. Illinois, Urbana-Champaign
MoC17	Atrium 3	Mitra, Sayan	Univ. Illinois, Urbana-Champaign
Dynamics in Social Networks: Opinions, Games and Optimization (Invited Session)		Dullerud, Geir E.	Univ. Illinois, Urbana-Champaign
Chair: Frasca, Paolo	Univ. of Twente	16:20-16:40	MoC18.2
		<i>Privacy and Customer Segmentation in the Smart Grid (I)</i> , pp. 2136-2141.	
		Ratliff, Lillian	Univ. of California, Berkeley

Dong, Roy	Univ. of California, Berkeley	Licitra, Ryan	Univ. of Florida
Ohlsson, Henrik	Linköping Univ	Dixon, Warren E.	Univ. of Florida
Cardenas, Alvaro	Univ. of Texas at Dallas		
Sastry, S. Shankar	Univ. of California, Berkeley		
16:40-17:00	MoC18.3	17:20-17:40	MoC19.5
<i>Computation of Privacy-Preserving Prices in Smart Grids (I), pp. 2142-2147.</i>		<i>On Time-Optimal Trajectories for Differential Drive Vehicles with Field-Of-View Constraints, pp. 2191-2197.</i>	
Koufogiannis, Fragkiskos	Univ. of Pennsylvania	Cristofaro, Andrea	NTNU
Han, Shuo	Univ. of Pennsylvania	Salaris, Paolo	Univ. of Pisa
Pappas, George J.	Univ. of Pennsylvania	Pallottino, Lucia	Univ. of Pisa
		Giannoni, Fabio	Univ. of Camerino
		Bicchi, Antonio	Univ. of Pisa
17:00-17:20	MoC18.4	17:40-18:00	MoC19.6
<i>Differentially Private MIMO Filtering for Event Streams and Spatio-Temporal Monitoring (I), pp. 2148-2153.</i>		<i>Vision-Based Dynamic Coverage Control for Nonholonomic Agents, pp. 2198-2203.</i>	
Le Ny, Jerome	Ec. Pol. De Montreal	Panagou, Dimitra	Univ. of Michigan, Ann Arbor
Mohammady, Meisam	Ec. Pol. De Montreal	Stipanovic, Dusan M.	Univ. Illinois, Urbana-Champaign
		Voulgaris, Petros G.	Univ. Illinois, Urbana-Champaign
17:20-17:40	MoC18.5		
<i>Privacy Preserving Average Consensus, pp. 2154-2159.</i>			
Mo, Yilin	California Inst. of Tech		
Murray, Richard M.	California Inst. of Tech		
17:40-18:00	MoC18.6		
<i>Differentially Private Convex Optimization with Piecewise Affine Objectives (I), pp. 2160-2166.</i>			
Han, Shuo	Univ. of Pennsylvania		
Topcu, Ufuk	Univ. of Pennsylvania		
Pappas, George J.	Univ. of Pennsylvania		
MoC19	Plaza 1	MoC20	Plaza 2
Vision-Based Control (Regular Session)		Consensus III (Regular Session)	
Chair: Sakai, Satoru	Shinshu Univ.	Chair: Li, Tao	Shanghai Univ.
Co-Chair: Stipanovic, Dusan M.	Univ. of Illinois, Urbana-Champaign	Co-Chair: di Bernardo, Mario	Univ. of Bristol
16:00-16:20	MoC19.1	16:00-16:20	MoC20.1
<i>Projection Homography Based Uncalibrated Visual Servoing of Wheeled Mobile Robots, pp. 2167-2172.</i>		<i>Spectral Analysis of Extended Consensus Algorithms for Multiagent Systems, pp. 2204-2209.</i>	
Li, Baoquan	Nankai Univ	van de Hoef, Sebastian	Royal Inst. of Tech
Fang, Yongchun	Nankai Univ	Dimarogonas, Dimos V.	Royal Inst. of Tech
Zhang, Xuebo	Nankai Univ	Tsiotras, Panagiotis	Georgia Inst. of Tech
16:20-16:40	MoC19.2	16:20-16:40	MoC20.2
<i>On the Visual Systems & Control on Matrix Space, pp. 2173-2178.</i>		<i>On Asymptotic Properties of Continuous-Time Stochastic Approximation Type Consensus Protocols (I), pp. 2210-2215.</i>	
Sakai, Satoru	Shinshu Univ	Tang, Huaibin	Shandong Univ
Ando, Masayuki	Shinshu Univ	Li, Tao	Shanghai Univ
16:40-17:00	MoC19.3	16:40-17:00	MoC20.3
<i>Landing on a Moving Target Using Image-Based Visual Servo Control, pp. 2179-2184.</i>		<i>Stochastic Approximation for Consensus Over General Digraphs with Markovian Switches, pp. 2216-2221.</i>	
Serra, Pedro	Inst. Superior Técnico, ISR	Huang, Minyi	Carleton Univ
Cunha, Rita	Inst. Superior Técnico, ISR	Li, Tao	Shanghai Univ
Hamel, Tarek	Univ. De Nice Sophia Antipolis	Zhang, Ji-Feng	Chinese Acad. of Sciences
Cabecinhas, David	Inst. Superior Técnico, ISR		
Silvestre, Carlos	Univ. of Macau		
17:00-17:20	MoC19.4	17:00-17:20	MoC20.4
<i>A Switched Systems Approach to Image-Based Localization of Targets That Temporarily Leave the Field of View, pp. 2185-2190.</i>		<i>Inverse Optimal Design of the Distributed Consensus Protocol for Formation Control of Multiple Mobile Robots, pp. 2222-2227.</i>	
Parikh, Anup	Univ. of Florida	Lee, Jae Young	Yonsei Univ
Cheng, Teng-Hu	Univ. of Florida	Choi, Yoon Ho	Kyonggi Univ
		Park, Jin Bae	Yonsei Univ
17:20-17:40	MoC19.5	17:20-17:40	MoC20.5
<i>Sparse Solutions to the Average Consensus Problem Via L1-Norm Regularization of the Fastest Mixing Markov-Chain Problem, pp. 2228-2233.</i>		<i>Sparse Solutions to the Average Consensus Problem Via L1-Norm Regularization of the Fastest Mixing Markov-Chain Problem, pp. 2228-2233.</i>	
Gnecco, Giorgio	Inst. for Advanced Studies, Lucca		
Morisi, Rita	Inst. for Advanced Studies, Lucca		
Bemporad, Alberto	Inst. for Advanced Studies, Lucca		
17:40-18:00	MoC19.6	17:40-18:00	MoC20.6
<i>Adaptive Weight Selection for Optimal Consensus Performance, pp. 2234-2239.</i>		<i>Adaptive Weight Selection for Optimal Consensus Performance, pp. 2234-2239.</i>	
Kempton, Louis	Univ. of Bristol		
Herrmann, Guido	Univ. of Bristol		
di Bernardo, Mario	Univ. of Naples Federico II		

MoC21	Salon D and E
Big Data and Sparsity in Systems and Control. Part II: Control and Optimization (Tutorial Session)	
Chair: Lagoa, Constantino M.	Pennsylvania State Univ.
Co-Chair: Regruto, Diego	Pol. di Torino
Organizer: Sznaier, Mario	Northeastern Univ.
16:00-16:30	MoC21.1
<i>Decentralized Control with Structural and Information Flow Constraints (I), pp. 2240-2247.</i>	
Sabau, Serban	Stevens Inst. of Tech
16:30-17:00	MoC21.2
<i>Dealing with the Curse of Dimensionality in Systems and Control: The Randomization Paradigm (I), pp. 2248-2256.</i>	
Dabbene, Fabrizio	Cnr-leit
17:00-17:30	MoC21.3
<i>Graph-Theoretic Algorithms for Polynomial Optimization Problems (I), pp. 2257-2271.</i>	
Sojoudi, Somayeh	NYU Langone Medical Center
Madani, Ramtin	Columbia Univ
Fazelnia, Ghazal	Columbia Univ
Lavaei, Javad	Columbia Univ
17:30-18:00	MoC21.4
<i>Towards Scalable Algorithms with Formal Guarantees for Lyapunov Analysis of Control Systems Via Algebraic Optimization (I), pp. 2272-2281.</i>	
Ahmadi, Amir Ali	Princeton Univ
Parrilo, Pablo A.	Massachusetts Inst. of Tech

Technical Program for Tuesday December 16, 2014

TuPL	Salon D and E	Qian, Chunjiang Tingwen, Huang Lin, Wei	Univ. of Texas at San Antonio Texas A&M Univ. at Qatar, Doha Case Western Res. Univ
PDE Control: Designs and Applications (Plenary Session)			
Chair: Jabbari, Faryar Co-Chair: Teel, Andrew R.	Univ. of California at Irvine Univ. of California at Santa Barbara	Hemmat-Abiri, Elham Johnson, Erik A	Univ. of Southern California Univ. of Southern California
08:30-09:30	TuPL.1		
<i>PDE Control: Designs and Applications*</i> .			
Krstic, Miroslav	Univ. of California, San Diego	Yang, Yang Wang, Yuan	Florida Atlantic Univ Florida Atlantic Univ
TuA01	Salon F		
Variational Analysis in Dynamics and Control I (Invited Session)			
Chair: Goebel, Rafal Co-Chair: Sanfelice, Ricardo	Loyola Univ. Chicago Univ. of Arizona	Battilotti, Stefano	Univ. La Sapienza
10:00-10:20	TuA01.1		
<i>Results on Robust Stability and Feedback Stabilization for Systems with a Continuum of Equilibria (I)</i> , pp. 2282-2286.			
Goebel, Rafal	Loyola Univ. Chicago	Ortega, Romeo Borja, Luis Pablo	LSS Supélec LSS Supélec
10:20-10:40	TuA01.2		
<i>Asymptotic Properties of Solutions to Set Dynamical Systems (I)</i> , pp. 2287-2292.			
Sanfelice, Ricardo G.	Univ. of California at Santa Cruz		
10:40-11:00	TuA01.3		
<i>Uniting Control Lyapunov and Control Barrier Functions</i> , pp. 2293-2298.			
Romdlony, Muhammad Zakiyullah	Univ. of Groningen	Jonsson, Vanessa Matni, Nikolai Murray, Richard M.	California Inst. of Tech California Inst. of Tech California Inst. of Tech
Jayawardhana, Bayu	Univ. of Groningen		
11:00-11:20	TuA01.4		
<i>Spectral Conditions for the Reachability of Discrete-Time Conewise Linear Systems (I)</i> , pp. 2299-2303.			
Kaba, Mustafa Devrim Camlibel, M. Kanat	Univ. of Groningen Univ. of Groningen		
11:20-11:40	TuA01.5		
<i>Another Look at Strong Invariance on Stratified Domains (I)</i> , pp. 2304-2309.			
Wolenski, Peter R.	Louisiana State Univ		
11:40-12:00	TuA01.6		
<i>A Krasovskii-LaSalle Function Based Recurrence Principle for a Class of Stochastic Hybrid Systems</i> , pp. 2310-2315.			
Subbaraman, Anantharaman Teel, Andrew R.	Univ. of California, Santa Barbara Univ. of California, Santa Barbara		
TuA02	Salon G		
Nonlinear Systems IV (Regular Session)			
Chair: Chesi, Graziano Co-Chair: Qian, Chunjiang	Univ. of Hong Kong Univ. of Texas, San Antonio	Grussler, Christian Rantzer, Anders	Lund Univ Lund Univ
10:00-10:20	TuA02.1		
<i>On the Unstable of Continuous-Time Linearized Nonlinear Systems</i> , pp. 2316-2321.			
Chesi, Graziano	Univ. of Hong Kong	Ito, Hiroshi Rüffer, Björn S.	Kyushu Inst. of Tech Univ. of Paderborn
10:20-10:40	TuA02.2		
<i>Synchronization Via Sampled-Data Output Feedback for a Class of Chaotic Systems</i> , pp. 2322-2327.		Rantzer, Anders Bernhardsson, Bo M.	Lund Univ Lund Univ
Yan, Song	Univ. of Texas at San Antonio		

11:40-12:00	TuA03.6	TuA05.2
<i>Stability of Monotone Dynamical Flow Networks (I)</i> , pp. 2384-2389.		
Lovisari, Enrico	Lund Univ	
Como, Giacomo	Lund Univ	
Savla, Ketan	Univ. of Southern California	
TuA04	Salon I	
Linear Systems I (Regular Session)		
Chair: Galeani, Sergio	Univ. di Roma Tor Vergata	
Co-Chair: Schmid, Robert	Univ. of Melbourne	
10:00-10:20	TuA04.1	TuA05.3
<i>Generation of Stable Polytopes of Hurwitz Polynomials Via Routh Parameters</i> , pp. 2390-2395.		
Nurges, Ulo	Tallinn Univ. of Tech	Kyoto Univ
Belikov, Juri	Tallinn Univ. of Tech	Kyoto Univ
Artemchuk, Igor	Tallinn Univ. of Tech	Kyoto Univ
10:20-10:40	TuA04.2	TuA05.4
<i>On Dynamic Input Allocation for Fat Plants Subject to Multi-Sinusoidal Exogenous Inputs</i> , pp. 2396-2403.		
Galeani, Sergio	Univ. Di Roma Tor Vergata	Tokyo Inst. of Tech
Pettinari, Silvia	Univ. of Camerino	Tokyo Inst. of Tech
10:40-11:00	TuA04.3	TuA05.5
<i>Computing the L_{∞}-Induced Norm of LTI Systems</i> , pp. 2404-2409.		
Kim, Jung Hoon	Kyoto Univ	Tokyo Inst. of Tech
Hagiwara, Tomomichi	Kyoto Univ	Tokyo Inst. of Tech
11:00-11:20	TuA04.4	TuA05.6
<i>Robust Eigenvalue Assignment for Time-Delay Systems</i> , pp. 2410-2413.		
Schmid, Robert	Univ. of Melbourne	Ruhr Univ. Bochum
Nguyen, Thang	Univ. of Exeter	Ruhr-Univ. Bochum
11:20-11:40	TuA04.5	
<i>Controllability Analysis of the First FM Model of 2D Systems: A Row (Column) Process</i> , pp. 2414-2419.		
Argha, Ahmadreza	Univ. of Tech. Sydney	Univ. of Alberta
Li, Li	Univ. of Tech. Sydney	Univ. of Alberta
Su, Steven W.	Univ. of Tech. Sydney	Univ. of Alberta
Nguyen, Hung T.	Univ. of Tech. Sydney	Univ. of Alberta
11:40-12:00	TuA04.6	
<i>A Path Defense Approach to the Multiplayer Reach-Avoid Game</i> , pp. 2420-2426.		
Chen, Mo	Univ. of California, Berkeley	Boston Univ.
Zhou, Zhengyuan	Stanford Univ	Pennsylvania State Univ.
Tomlin, Claire J.	Univ. of California, Berkeley	Boston Univ.
TuA05	Salon J	
Distributed Control I (Regular Session)		
Chair: Imura, Jun-ichi	Tokyo Inst. of Tech.	Boston Univ.
Co-Chair: Liu, Jinfeng	Univ. of Alberta	The Ohio State Univ.
10:00-10:20	TuA05.1	
<i>Distributed Parameter E-Modification for an Aeroelastic Torsion Model</i> , pp. 2427-2432.		
Ishihara, Abraham K.	Carnegie-Mellon Univ	Boston Univ.
Nguyen, Nhan	NASA Ames Res. Center	Boston Univ.
10:20-10:40		
<i>On the Fundamental Limitations of Performance for Distributed Decision-Making in Robotic Networks</i> , pp. 2433-2440.		
Rossi, Federico	Stanford Univ	
Pavone, Marco	Stanford Univ	
10:40-11:00		
<i>Real-Time Pricing Based on Networked Estimators</i> , pp. 2441-2446.		
Izumi, Shinsaku	Kyoto Univ	
Azuma, Shun-ichi	Kyoto Univ	
Sugie, Toshiharu	Kyoto Univ	
11:00-11:20		
<i>Hierarchical Distributed Control for Networked Linear Systems</i> , pp. 2447-2452.		
Sadamoto, Tomonori	Tokyo Inst. of Tech	
Ishizaki, Takayuki	Tokyo Inst. of Tech	
Imura, Jun-ichi	Tokyo Inst. of Tech	
11:20-11:40		
<i>Self-Organizing Control of Unidirectionally Coupled Heterogeneous Agents with Information Request</i> , pp. 2453-2460.		
Schuh, Rene	Ruhr Univ. Bochum	
Lunze, Jan	Ruhr-Univ. Bochum	
11:40-12:00		
<i>An Analytic Price-Driven Coordination Scheme for Distributed Model Predictive Control Systems</i> , pp. 2461-2466.		
Hassanzadeh, Bardia	Univ. of Alberta	
Liu, Jinfeng	Univ. of Alberta	
Forbes, J. Fraser	Univ. of Alberta	
TuA06	Salon 6	
Smart Grid Solutions with Innovative Communication and Control Technologies (Invited Session)		
Chair: Zhang, Bowen	Boston Univ.	
Co-Chair: Zhu, Minghui	Pennsylvania State Univ.	
Organizer: Zhang, Bowen	Boston Univ.	
Organizer: Caramanis, Michael C.	Boston Univ.	
Organizer: Baillieul, John	Boston Univ.	
10:00-10:20		
<i>Optimal Decentralized Primary Frequency Control in Power Networks (I)</i> , pp. 2467-2473.		
Zhao, Changhong	California Inst. of Tech	
Low, Steven H.	California Inst. of Tech	
10:20-10:40		
<i>On Market-Based Coordination of Thermostatically Controlled Loads with User Preference (I)</i> , pp. 2474-2480.		
Li, Sen	The Ohio State Univ	
Zhang, Wei	The Ohio State Univ	
Lian, Jianming	Pacific Northwest National Lab	
Kalsi, Karanjit	Pacific Northwest National Lab	
10:40-11:00		
<i>Optimal Price-Controlled Demand Response with Explicit Modeling of Consumer Preference Dynamics (I)</i> , pp. 2481-2486.		
Zhang, Bowen	Boston Univ.	
Caramanis, Michael C.	Boston Univ.	
Baillieul, John	Boston Univ.	

11:00-11:20	TuA06.4	11:40-12:00	TuA07.6
<i>Stability Constrained Incentive Design for Distributed Frequency Control of Power Grid (I)</i> , pp. 2487-2492.			
Zhu, Minghui Li, Na	Pennsylvania State Univ Harvard Univ	Nemeth, Balazs	MTA SZTAKI Hungarian Acad. of Sciences
11:20-11:40	TuA06.5	Gaspar, Peter	MTA SZTAKI Hungarian Acad. of Sciences
<i>Delay-Aware Co-Designs for Wide-Area Control of Power Grids</i> , pp. 2493-2498.			Bokor, Jozsef
Soudbakhsh, Damoon Chakrabortty, Aranya Annaswamy, Anuradha	Massachusetts Inst. of Tech North Carolina State Univ Massachusetts Inst. of Tech	MTA SZTAKI Hungarian Acad. of Sciences	
11:40-12:00	TuA06.6		
<i>A Bilevel Approach for the Optimal Control of Interconnected Microgrids</i> , pp. 2499-2504.			
Robba, Michela Minciardi, Riccardo	Univ. di Genova Univ. di Genova		
TuA07	Salon 7		
Automotive Applications of Nonlinear Control (Regular Session)			
Chair: Maran, Fabio Co-Chair: Josevski, Martina	Univ. di Padova RWTH Aachen Univ.	Chair: Tóth, Roland Co-Chair: Mohammadpour, Javad Organizer: Tóth, Roland Organizer: Mohammadpour, Javad Organizer: Larimore, Wallace E.	Eindhoven Univ. of Tech. Univ. of Georgia Eindhoven Univ. of Tech. Univ. of Georgia Adaptics, Inc.
10:00-10:20	TuA07.1	10:00-10:20	TuA08.1
<i>Towards Time-Optimal Race Car Driving Using Nonlinear MPC in Real-Time</i> , pp. 2505-2510.			
Verschueren, Robin De Bruyne, Stijn Zanon, Mario Frasch, Janick Diehl, Moritz	Katholieke Univ. Leuven LMS International Katholieke Univ. Leuven Univ. of Heidelberg Katholieke Univ. Leuven	Lu, Yaojie Khatibisepehr, Shima Huang, Biao	Univ. of Alberta Univ. of Alberta Univ. of Alberta
10:20-10:40	TuA07.2	10:20-10:40	TuA08.2
<i>Robust Stable Economic MPC with Applications in Engine Control</i> , pp. 2511-2516.			
Broomhead, Timothy Manzie, Chris Shekhar, Rohan C. Brrear, Michael Hield, Peter	The Univ. of Melbourne The Univ. of Melbourne The Univ. of Melbourne The Univ. of Melbourne Defence Science and Tech. Org.	Lopes dos Santos, P. Azevedo Perdicoulis, T-P Ramos, Jose A. Deshpande, Sunil Rivera, Daniel E. Martins de Carvalho, J.L.	Univ. Do Porto ISR-Coimbra & UTAD Nova Southeastern Univ Arizona State Univ Arizona State Univ Faculdade De Engenharia Da Univ. Do Porto
10:40-11:00	TuA07.3	10:40-11:00	TuA08.3
<i>A Non-Linear MPC Based Motion Cueing Implementation for a 9 DOFs Dynamic Simulator Platform</i> , pp. 2517-2522.			
Bruschetta, Mattia Maran, Fabio Beghi, Alessandro	Univ. of Padova Univ. Di Padova Univ. Di Padova	Golabi, Arash Meskin, Nader Tóth, Roland Mohammadpour, Javad	Qatar Univ Qatar Univ Eindhoven Univ. of Tech Univ. of Georgia
11:00-11:20	TuA07.4	11:00-11:20	TuA08.4
<i>Multi-Time Scale Model Predictive Control Framework for Energy Management of Hybrid Electric Vehicles</i> , pp. 2523-2528.			
Josevski, Martina Abel, Dirk	RWTH Aachen Univ RWTH Aachen Univ	Duijkers, René Tóth, Roland Piga, Dario Laurain, Vincent	Eindhoven Univ. of Tech Eindhoven Univ. of Tech Scuola Univ. Professionale Della Svizzera Italiana Univ. De Lorraine
11:20-11:40	TuA07.5	11:20-11:40	TuA08.5
<i>On the Impact of Model Simplification in Input Constrained Optimal Control: Application to HEV Energy-Thermal Management</i> , pp. 2529-2535.			
Maamria, Djamaleddine Chaplais, Francois Petit, Nicolas Sciarretta, Antonio	Ifpen MINES ParisTech MINES ParisTech Swiss Federal Inst. of Tech	Goos, Jan Pinteloni, Rik M.	Vrije Univ. Brussel Vrije Univ. Brussel

11:40-12:00	TuA08.6	
<i>A Convex Optimization Approach to Semi-Supervised Identification of Switched ARX Systems</i> , pp. 2573-2578.		
Cheng, Yongfang	Northeastern Univ	
Wang, Yin	Northeastern Univ	
Sznaier, Mario	Northeastern Univ	
TuA09	Salon 9	
Estimation IV (Regular Session)		
Chair: Welsh, James S.	Univ. of Newcastle	
Co-Chair: Ordaz, Patricio	CINVESTAV	
10:00-10:20	TuA09.1	
<i>State Estimation in Power Distribution Networks with Poorly Synchronized Measurements</i> , pp. 2579-2584.		
Todescato, Marco	Univ. di Padova	
Carli, Ruggero	Univ. di Padova	
Bolognani, Saverio	Massachusetts Inst. of Tech	
10:20-10:40	TuA09.2	
<i>Global Stability of PD+ Controller with Velocity Estimation</i> , pp. 2585-2590.		
Ordaz, Patricio	CINVESTAV	
Espinosa Quesada, Eduardo	Pol. Univ. of Pachuca	
Steed		
Muñoz Palacios, Filiberto	Univ. Pol. De Pachuca	
10:40-11:00	TuA09.3	
<i>Moving-Horizon Estimation for Discrete-Time Linear Systems with Measurements Subject to Outliers</i> , pp. 2591-2596.		
Alessandri, Angelo	Univ. di Genova	
Awadeh, Moath	Univ. di Genova	
11:00-11:20	TuA09.4	
<i>Ensuring Stability in Continuous Time System Identification Instrumental Variable for Over-Parameterized Models</i> , pp. 2597-2602.		
Ha, Huong	Univ. of Newcastle	
Welsh, James S.	Univ. of Newcastle	
11:20-11:40	TuA09.5	
<i>Ellipsoidal State Estimation for Systems with Interval Uncertainties</i> , pp. 2603-2608.		
Ben Chabane, Sofiane	SUPELEC	
Stoica Maniu, Cristina Nicoleta	SUPELEC	
Alamo, Teodoro	Univ. de Sevilla	
Camacho, Eduardo F.	Univ. de Sevilla	
Dumur, Didier	SUPELEC	
11:40-12:00	TuA09.6	
<i>Cramer-Rao-Leibniz Lower Bound a New Estimation Bound for Finite Support Measurement Noise</i> , pp. 2609-2614.		
Bar-Shalom, Yaakov	Univ. of Connecticut	
Osborne, III, Richard	Univ. of Connecticut	
Willett, Peter K.	Univ. of Connecticut	
Daum, Frederick E.	Raytheon	
TuA10	Salon 10	
Stochastic Systems I (Regular Session)		
Chair: Mukaidani, Hiroaki	Hiroshima Univ.	
Co-Chair: Dolgov, Maxim	Karlsruhe Inst. of Tech. (KIT)	
10:00-10:20	TuA10.1	
<i>Bivariate Angular Estimation under Consideration of Dependencies Using Directional Statistics</i> , pp. 2615-2621.		
Kurz, Gerhard	Karlsruhe Inst. of Tech. (KIT)	
Gilitschenski, Igor	Karlsruhe Inst. of Tech. (KIT)	
Dolgov, Maxim	Karlsruhe Inst. of Tech. (KIT)	
Hanebeck, Uwe D.	Karlsruhe Inst. of Tech. (KIT)	
10:20-10:40	TuA10.2	
<i>Simultaneous Perturbation Algorithms for Batch Off-Policy Search</i> , pp. 2622-2627.		
Fonteneau, Raphael	Univ. of Liège	
L.A., Prashanth	Inria	
10:40-11:00	TuA10.3	
<i>A Theory of Sufficient Statistics for Teams</i> , pp. 2628-2635.		
Wu, Jeff	Stanford Univ	
Lall, Sanjay	Stanford Univ	
11:00-11:20	TuA10.4	
<i>On the Variance of Identified SIMO Systems with Spatially Correlated Output Noise</i> , pp. 2636-2641.		
Bottegal, Giulio	KTH Royal Inst. of Tech	
Hjalmarsson, Håkan	KTH Royal Inst. of Tech	
11:20-11:40	TuA10.5	
<i>Metrics for Matrix-Valued Measures Via Test Functions (I)</i> , pp. 2642-2647.		
Ning, Lipeng	Harvard Medical School	
Georgiou, Tryphon T.	Univ. of Minnesota	
11:40-12:00	TuA10.6	
<i>H_2/H_infinity Control Problem for Stochastic Delay Systems with Multiple Decision Makers</i> , pp. 2648-2653.		
Mukaidani, Hiroaki	Hiroshima Univ	
TuA11	Georgia 1	
Extremum Seeking I (Regular Session)		
Chair: Ebenbauer, Christian	Univ. of Stuttgart	
Co-Chair: Benosman, Mouhacine	Mitsubishi Electric Res. Lab.	
10:00-10:20	TuA11.1	
<i>Constrained Extremum Seeking in 1 Dimension</i> , pp. 2654-2659.		
Mills, Greg	Univ. of California, San Diego	
Krstic, Miroslav	Univ. of California, San Diego	
10:20-10:40	TuA11.2	
<i>The Multidimensional N-Th Order Heavy Ball Method and Its Application to Extremum Seeking</i> , pp. 2660-2666.		
Michalowsky, Simon	Univ. of Stuttgart	
Ebenbauer, Christian	Univ. of Stuttgart	
10:40-11:00	TuA11.3	
<i>Extremum Seeking Control for Nonlinear Systems on Compact Riemannian Manifolds</i> , pp. 2667-2672.		
Taringoo, Farzin	The Univ. of Melbourne	
Nesic, Dragan	The Univ. of Melbourne	
Tan, Ying	The Univ. of Melbourne	
Dower, Peter M.	The Univ. of Melbourne	
11:00-11:20	TuA11.4	
<i>Extremum Seeking for Parameter Identification, Implementation for Electron Beam Property Prediction</i> , pp. 2673-2678.		
Scheinker, Alexander	Los Alamos National Lab	

Gessner, Spencer	SLAC National Lab	TuA13.1
11:20-11:40	TuA11.5	
<i>A Dither-Free Extremum-Seeking Control Approach Using 1st-Order Least-Squares Fits for Gradient Estimation</i> , pp. 2679-2684.		
Hunnekens, Bram	Eindhoven Univ. of Tech	
Haring, Mark	NTNU	
Van De Wouw, Nathan	Eindhoven Univ. of Tech	
Nijmeijer, Hendrik	Eindhoven Univ. of Tech	
11:40-12:00	TuA11.6	TuA13.2
<i>Multi-Parametric Extremum Seeking-Based Auto-Tuning for Robust Input-Output Linearization Control</i> , pp. 2685-2690.		
Benosman, Mouhacine	Mitsubishi Electric Res. Lab	
TuA12	Georgia 2	
Mean Field Games I (Invited Session)		
Chair: Basar, Tamer	Univ. Illinois, Urbana-Champaign	
Co-Chair: Bauso, Dario	Univ. di Palermo	
10:00-10:20	TuA12.1	TuA13.3
<i>Linear-Quadratic Risk-Sensitive Mean Field Games (I)</i> , pp. 2691-2696.		
Moon, Jun	Univ. Illinois, Urbana-Champaign	
Basar, Tamer	Univ. Illinois, Urbana-Champaign	
10:20-10:40	TuA12.2	
<i>Discrete-Time LQG Mean Field Games with Unreliable Communication</i> , pp. 2697-2702.		
Moon, Jun	Univ. Illinois, Urbana-Champaign	
Basar, Tamer	Univ. Illinois, Urbana-Champaign	
10:40-11:00	TuA12.3	
<i>Dual Two-State Mean Field Games (I)</i> , pp. 2703-2708.		
Gomes, Diogo	King Abdullah Univ.	
Velho, Roberto M.	King Abdullah Univ.	
Wolfram, Marie-Therese	Univ. of Vienna	
11:00-11:20	TuA12.4	
<i>Mean Field Games with Partially Observed Major Player and Stochastic Mean Field (I)</i> , pp. 2709-2715.		
Sen, Nevroz	McGill Univ	
Caines, Peter E.	McGill Univ	
11:20-11:40	TuA12.5	
<i>Passive Dynamics in Mean Field Control (I)</i> , pp. 2716-2721.		
Busic, Ana	Inria and École Normale Supérieure	
Meyn, Sean P.	Univ. of Florida	
11:40-12:00	TuA12.6	
<i>Mean-Field Games and Two-Point Boundary Value Problems (I)</i> , pp. 2722-2727.		
Mylvganam, Thulasi	Imperial Coll. London	
Bauso, Dario	Univ. di Palermo	
Astolfi, Alessandro	Imperial Coll. & Univ. of Rome	
TuA13	Atrium 1	Olympic 1
Economic Model Predictive Control (Invited Session)		
Chair: Gruene, Lars	Univ. of Bayreuth	
Co-Chair: Jones, Colin N.	École Pol. Fédérale de Lausanne	
Organizer: Gruene, Lars	Univ. of Bayreuth	
10:00-10:20		TuA14.1
<i>An Economic Model Predictive Control Scheme with Terminal Penalty for Continuous-Time Systems (I)</i> , pp. 2728-2733.		
Alessandretti, Andrea	Inst. Superior Técnico (IST)/École Pol. Fédérale De Lausanne	
Aguiar, A. Pedro	Univ. of Porto	
Jones, Colin N.	École Pol. Fédérale De Lausanne	
10:20-10:40		
<i>Turnpike and Dissipativity Properties in Dynamic Real-Time Optimization and Economic MPC (I)</i> , pp. 2734-2739.		
Faulwasser, Timm	École Pol. Fédérale De Lausanne	
Korda, Milan	École Pol. Fédérale De Lausanne	
Jones, Colin N.	École Pol. Fédérale De Lausanne	
Bonvin, Dominique	École Pol. Fédérale De Lausanne	
10:40-11:00		
<i>A Lyapunov Function for Economic MPC without Terminal Conditions (I)</i> , pp. 2740-2745.		
Gruene, Lars	Univ. of Bayreuth	
Stieler, Marleen	Univ. of Bayreuth	
11:00-11:20		
<i>Local Properties of Economic NMPC, Dissipativity and Dynamic Programming (I)</i> , pp. 2746-2751.		
Zanon, Mario	Katholieke Univ. Leuven	
Gros, Sébastien	Chalmers Univ. of Tech	
Diehl, Moritz	Katholieke Univ. Leuven	
11:20-11:40		
<i>Symmetric Algorithmic Differentiation Based Exact Hessian SQP Method and Software for Economic MPC (I)</i> , pp. 2752-2757.		
Quirynen, Rien	Katholieke Univ. Leuven	
Houska, Boris	Shanghai Jiao Tong Univ	
Vallerio, Mattia	Katholieke Univ. Leuven	
Telen, Dries	Katholieke Univ. Leuven	
Logist, Filip	Katholieke Univ. Leuven	
Van Impe, Jan F.M.	Katholieke Univ. Leuven	
Diehl, Moritz	Katholieke Univ. Leuven	
11:40-12:00		
<i>Economic Model Predictive Control of Parabolic PDE Systems: Handling State Constraints by Adaptive Proper Orthogonal Decomposition (I)</i> , pp. 2758-2763.		
Lao, Liangfeng	Univ. of California, Los Angeles	
Ellis, Matthew	Univ. of California, Los Angeles	
Armaou, Antonios	The Pennsylvania State Univ	
Christofides, Panagiotis D.	Univ. of California, Los Angeles	
TuA14		
Event-Triggered and Self-Triggered Control (Invited Session)		
Chair: Heemels, W.P.M.H.	Eindhoven Univ. of Tech.	
Co-Chair: Hirche, Sandra	Tech. Univ. München	
Organizer: Heemels, W.P.M.H.	Eindhoven Univ. of Tech.	
Organizer: Hirche, Sandra	Tech. Univ. München	
Organizer: Johansson, Karl H.	Royal Inst. of Tech.	

10:20-10:40	TuA14.2	Tempo, Roberto Zaccarian, Luca Savarese, Sergio M.	CNR-IEIIT, Pol. di Torino LAAS-CNRS and Univ. of Trento Pol. di Milano
A New Event-Driven Cooperative Receding Horizon Controller for Multi-Agent Systems in Uncertain Environments (I), pp. 2770-2775.			
Khazaeni, Yasaman Cassandras, Christos G.	Boston Univ Boston Univ		
10:40-11:00	TuA14.3		
Event-Triggered Scheduling for Stochastic Multi-Loop Networked Control Systems with Packet Dropouts (I), pp. 2776-2782.			
Mamduhi, Mohammad Hossein Tolic, Domagoj Molin, Adam Hirche, Sandra	Tech. Univ. München Univ. of Zagreb Tech. Univ. München Tech. Univ. München		
11:00-11:20	TuA14.4		
Event-Triggered Pinning Control of Complex Networks with Switching Topologies (I), pp. 2783-2788.			
Adaldo, Antonio Alderisio, Francesco Liuzza, Davide Shi, Guodong Dimarogonas, Dimos V. di Bernardo, Mario Johansson, Karl Henrik	Royal Inst. of Tech Univ. of Bristol Royal Inst. of Tech The Australian National Univ Royal Inst. of Tech Univ. of Bristol Royal Inst. of Tech		
11:20-11:40	TuA14.5		
An Event-Triggered Observer Based Control Strategy for SISO Systems, pp. 2789-2794.			
Sbarbaro, Daniel G. Tarbouriech, Sophie Gomes da Silva Jr, Joao Manoel	Univ. De Concepcion Laas-Cnrs Univ. Federal Do Rio Grande Do Sul (UFRGS)		
11:40-12:00	TuA14.6		
On Self-Triggered Reduced-Attention Control for Constrained Systems (I), pp. 2795-2801.			
Koegel, Markus Findeisen, Rolf	OVG Univ. Magdeburg OVG Univ. Magdeburg		
TuA15	Atrium 2		
New Directions in Robust Optimal Control (Invited Session)			
Chair: Streif, Stefan Co-Chair: Mesbah, Ali Organizer: Mesbah, Ali Organizer: Streif, Stefan Organizer: Braatz, Richard D.	OVG Univ. Magdeburg Massachusetts Inst. of Tech. Univ. of California, Berkeley Ilmenau Univ. of Tech. Massachusetts Inst. of Tech.		
10:00-10:20	TuA15.1		
Fast Stochastic Model Predictive Control of High-Dimensional Systems (I), pp. 2802-2809.			
Paulson, Joel Mesbah, Ali Streif, Stefan Findeisen, Rolf Braatz, Richard D.	Massachusetts Inst. of Tech Univ. of California, Berkeley Ilmenau Univ. of Tech OVG Univ. Magdeburg Massachusetts Inst. of Tech		
10:20-10:40	TuA15.2		
Scenario Optimization with Certificates and Applications to Anti-Windup Design (I), pp. 2810-2815.			
Formentin, Simone Dabbene, Fabrizio	Pol. di Milano CNR-IEIIT		
10:40-11:00	TuA15.3		
Multi-Stage Nonlinear Model Predictive Control with Verified Robust Constraint Satisfaction (I), pp. 2816-2821.			
Lucia, Sergio Paulen, Radoslav Engell, Sebastian	TU Dortmund TU Dortmund TU Dortmund		
11:00-11:20	TuA15.4		
Optimality of Certainty Equivalence in Expected Value Problems for Uncertain Linear Systems (I), pp. 2822-2827.			
Chuang, Frank Fu-Han Danielson, Claus Borrelli, Francesco	Univ. of California, Berkeley Univ. of California, Berkeley Univ. of California, Berkeley		
11:20-11:40	TuA15.5		
Robust State Feedback Control Design with Probabilistic System Parameters (I), pp. 2828-2833.			
Bhattacharya, Raktim	Texas A&M		
11:40-12:00	TuA15.6		
On Robust Solutions to Uncertain Monotone Linear Complementarity Problems and Their Variants, pp. 2834-2839.			
Shanbhag, Uday V. Xie, Yue	Pennsylvania State Univ Pennsylvania State Univ		
TuA16	Olympic 2		
Control and Optimization of Hyperbolic PDE Systems (Invited Session)			
Chair: Demetriou, Michael A. Co-Chair: Fahroo, Fariba Organizer: Demetriou, Michael A. Organizer: Fahroo, Fariba	Worcester Pol. Inst. AFOSR Worcester Pol. Inst. AFOSR		
10:00-10:20	TuA16.1		
Boundary Control Synthesis for Hyperbolic Systems: A Singular Perturbation Approach (I), pp. 2840-2845.			
Tang, Ying Prieur, Christophe Girard, Antoine	Grenoble Univ CNRS Univ. Joseph Fourier		
10:20-10:40	TuA16.2		
Well-Posedness and Stability of a 1D Wave Equation with Saturating Distributed Input (I), pp. 2846-2851.			
Prieur, Christophe Tarbouriech, Sophie Gomes da Silva Jr, Joao Manoel	CNRS LAAS-CNRS Univ. Federal Do Rio Grande Do Sul		
10:40-11:00	TuA16.3		
Synchronization Optimization of Networked Second Order Infinite Dimensional Systems (I), pp. 2852-2857.			
Demetriou, Michael A. Fahroo, Fariba	Worcester Pol. Inst AFOSR		
11:00-11:20	TuA16.4		
Nonlinear Stabilization of a Viscous Hamilton-Jacobi PDE (I), pp. 2858-2863.			
Bekiaris-Liberis, Nikolaos Bayen, Alexandre	Univ. of California, Berkeley Univ. of California, Berkeley		

11:20-11:40	TuA16.5	Cao, Yongcan Casbeer, David W.	Air Force Res. Lab Air Force Res. Lab
<i>Control of Hyperbolic PDE Systems with Actuator Dynamics (I)</i> , pp. 2864-2869.			
Burns, John A Cliff, Eugene M.	Virginia Tech Virginia Tech		
11:40-12:00	TuA16.6		
<i>Robust Adaptive Model Tracking Control for Linear Infinite Dimensional Symmetric Hyperbolic Systems (I)</i> , pp. 2870-2876.			
Balas, Mark Frost, Susan	Embry-Riddle Aeronautical Univ NASA Ames Res. Center		
TuA17	Atrium 3		
Network Analysis and Control I (Regular Session)			
Chair: Blanchini, Franco Co-Chair: Zelazo, Daniel	Univ. degli Studi di Udine Tech. - Israel Inst. of Tech.		
10:00-10:20	TuA17.1		
<i>Towards Control of Evolutionary Games on Networks</i> , pp. 2877-2882.			
Riehl, James Robert Cao, Ming	Univ. of Groningen Univ. of Groningen		
10:20-10:40	TuA17.2		
<i>Submodularity of Energy Related Controllability Metrics</i> , pp. 2883-2888.			
Cortesi, Fabrizio Summers, Tyler Lygeros, John	ETH Zurich ETH Zurich ETH Zurich		
10:40-11:00	TuA17.3		
<i>Robust Network Routing under Cascading Failures</i> , pp. 2889-2894.			
Savla, Ketan Como, Giacomo Dahleh, Munther A.	Univ. of Southern California Lund Univ Massachusetts Inst. of Tech		
11:00-11:20	TuA17.4		
<i>On the Definiteness of the Weighted Laplacian and Its Connection to Effective Resistance</i> , pp. 2895-2900.			
Zelazo, Daniel Buerger, Mathias	Tech. - Israel Inst. of Tech Univ. of Stuttgart		
11:20-11:40	TuA17.5		
<i>Network-Decentralized Robust Congestion Control with Node Traffic Splitting</i> , pp. 2901-2906.			
Blanchini, Franco Giordano, Giulia Montessoro, Pier Luca	Univ. of Udine Univ. of Udine Univ. of Udine		
11:40-12:00	TuA17.6		
<i>Opinion Dynamics with Persistent Leaders</i> , pp. 2907-2913.			
Mai, Van Sy Abed, Eyad H.	Univ. of Maryland Univ. of Maryland		
TuA18	Olympic 3		
Cooperative Control I (Regular Session)			
Chair: Cao, Ming Co-Chair: Tayebi, Abdelhamid	Univ. of Groningen Lakehead Univ.		
10:00-10:20	TuA18.1		
<i>Event-Triggered Cooperative Control with General Linear Dynamics and Communication Delays</i> , pp. 2914-2919.			
Garcia, Eloy	Infoscitex Corp		
10:20-10:40	TuA18.2		
<i>Dynamics of Pursuit and Evasion in a Heterogeneous Herd</i> , pp. 2920-2925.			
Scott, William Leonard, Naomi Ehrich	Princeton Univ Princeton Univ		
10:40-11:00	TuA18.3		
<i>Cooperative Aircraft Defense from an Attacking Missile</i> , pp. 2926-2931.			
Garcia, Eloy Casbeer, David W. Pham, Khanh D. Pachter, Meir	Infoscitex Corp Air Force Res. Lab Air Force Res. Lab AFIT		
11:00-11:20	TuA18.4		
<i>Cooperative Receding Horizon Conflict Resolution at Traffic Intersections</i> , pp. 2932-2937.			
Rodrigues De Campos, Gabriel Falcone, Paolo Wymeersch, Henk Hult, Robert Sjöberg, Jonas	Chalmers Univ. of Tech Chalmers Univ. of Tech Chalmers Univ. of Tech Chalmers Univ. of Tech Chalmers Univ. of Tech		
11:20-11:40	TuA18.5		
<i>Containment Control for Networked Lagrangian Systems under a Directed Graph and Communication Constraints</i> , pp. 2938-2943.			
Abdessameud, Abdelkader Polushin, Ilia G. Tayebi, Abdelhamid	Univ. of Western Ontario Univ. of Western Ontario Lakehead Univ		
11:40-12:00	TuA18.6		
<i>Target Localization: Energy-Information Trade-Offs Using Mobile Sensor Networks</i> , pp. 2944-2949.			
Wu, Wencen Zhang, Fumin Wardi, Yorai	Rensselaer Pol. Inst Georgia Inst. of Tech Georgia Inst. of Tech		
TuA19	Plaza 1		
Robot Locomotion (Regular Session)			
Chair: Byl, Katie Co-Chair: Verriest, Erik I.	Univ. of California, Santa Barbara Georgia Inst. of Tech.		
10:00-10:20	TuA19.1		
<i>Embedding of SLIP Dynamics on Underactuated Bipedal Robots through Multi-Objective Quadratic Program Based Control</i> , pp. 2950-2957.			
Hereid, Ayonga Powell, Matthew Ames, Aaron D.	Texas A&M Univ Texas A&M Univ Texas A&M Univ		
10:20-10:40	TuA19.2		
<i>Graceful Gait Transitions for Biomimetic Locomotion – the Worm</i> , pp. 2958-2963.			
Memon, Abdul Basit Verriest, Erik I. Hyun, Nak-seung Patrick	Georgia Inst. of Tech Georgia Inst. of Tech Georgia Inst. of Tech		
10:40-11:00	TuA19.3		
<i>Trajectory Optimization for Walking Robots with Series Elastic Actuators</i> , pp. 2964-2970.			
Werner, Alexander	German Aerospace Center (DLR)		

Lampariello, Roberto Ott, Christian	German Aerospace Center (DLR) German Aerospace Center (DLR)	TuA19.4	Plaza 3
11:00-11:20		TuA19.4	
A Higher Order Partial Feedback Linearization Based Method for Controlling an Underactuated Hopping Robot with a Compliant Leg, pp. 2971-2978.			
Terry, Patrick Byl, Katie	Univ. of California, Santa Barbara Univ. of California, Santa Barbara		
11:20-11:40		TuA19.5	
Metastable Markov Chains, pp. 2979-2985.			
Saglam, Cenk Oguz Byl, Katie	Univ. of California, Santa Barbara Univ. of California, Santa Barbara		
11:40-12:00		TuA19.6	
Hierarchical Control of Series Elastic Actuators through Control Lyapunov Functions, pp. 2986-2992.			
Powell, Matthew Ames, Aaron D.	Texas A&M Univ Texas A&M Univ		
TuA20	Plaza 2		
Multi-Agent Systems (Regular Session)			
Chair: Lamperski, Andrew Co-Chair: Lin, Zhiyun	Univ. of Cambridge Zhejiang Univ.		
10:00-10:20		TuA20.1	
Consensus of Linear Multi-Agent Systems with Fully Distributed Control Gains under a General Directed Graph, pp. 2993-2998.			
Mei, Jie Ren, Wei Chen, Jie Anderson, Brian D.O.	Harbin Inst. of Tech. Univ. of California, Riverside City Univ. of Hong Kong Australian National Univ		
10:20-10:40		TuA20.2	
Leader-Following Consensus of Multi-Agent Systems Over Finite Fields, pp. 2999-3004.			
Xu, Xiangru Hong, Yiguang	Univ. of Michigan Chinese Acad. of Sciences		
10:40-11:00		TuA20.3	
A New Coordinated Path-Following Control for Second-Order Multi-Agent Systems, pp. 3005-3010.			
Zuo, Zongyu	Beihang Univ.		
11:00-11:20		TuA20.4	
Leader-Following Consensus with Connectivity Preservation of Uncertain Euler-Lagrange Multi-Agent Systems, pp. 3011-3016.			
Dong, Yi Huang, Jie	The Chinese Univ. of Hong Kong The Chinese Univ. of Hong Kong		
11:20-11:40		TuA20.5	
Affine Formation of Multi-Agent Systems Over Directed Graphs, pp. 3017-3022.			
Wang, Lili Lin, Zhiyun Fu, Minyue	Zhejiang Univ Zhejiang Univ Univ. of Newcastle		
11:40-12:00		TuA20.6	
Stability and Consensus for Multi-Agent Systems with Poisson Clock Noise, pp. 3023-3028.			
Lamperski, Andrew Papachristodoulou, Antonis	Univ. of Minnesota Univ. of Oxford		
TuA21			
Biological Systems I (Regular Session)			
Chair: Ching, ShiNung Co-Chair: Armaou, Antonios	Washington Univ. in St. Louis The Pennsylvania State Univ.		
10:00-10:20		TuA21.1	
Optimization of Interruptions in HIV Treatment Using a Multiscale Mechanistic Model, pp. 3029-3034.			
Xu, Serena Srinivasan, Premanand Armaou, Antonios	The Pennsylvania State Univ The Pennsylvania State Univ The Pennsylvania State Univ		
10:20-10:40		TuA21.2	
Scale-Invariance in Singularly Perturbed Systems, pp. 3035-3040.			
Skataric, Maja Nikolaev, Evgeni Sontag, Eduardo D.	Rutgers Univ Rutgers Univ Rutgers Univ		
10:40-11:00		TuA21.3	
Non-Negative Inputs for Underactuated Control of Spiking in Coupled Integrate-and-Fire Neurons, pp. 3041-3046.			
Nandi, Anirban Ritt, Jason Ching, ShiNung	Washington Univ. in St. Louis Boston Univ Washington Univ. in St. Louis		
11:00-11:20		TuA21.4	
First-passage Time Calculations for a Gene Expression Model, pp. 3047-3052.			
Ghusinga, Khem Raj Singh, Abhyudai	Univ. of Delaware Univ. of Delaware		
11:20-11:40		TuA21.5	
Quasi-Steady-State Approximations of the Chemical Master Equation in Enzyme Kinetics - Application to the Double Phosphorylation/Dephosphorylation Cycle, pp. 3053-3058.			
Bersani, Alberto Maria Borri, Alessandro Caravetta, Francesco Mavelli, Gabriella Palumbo, Pasquale	Univ. of Rome "La Sapienza" IASI-CNR IASI-CNR CNR IASI-CNR		
11:40-12:00		TuA21.6	
Stability Analysis of PDEs Modelling Cell Dynamics in Acute Myeloid Leukemia, pp. 3059-3064.			
Avila, José Luis Bonnet, Catherine Fridman, Emilia Mazenc, Frederic Clairambault, Jean	INRIA-Lab. Des Signaux Et Systèmes Supélec INRIA Saclay-Ile-De-France Tel-Aviv Univ Epi Inria Disco Inria		
TuB01	Salon F		
Variational Analysis in Dynamics and Control II (Invited Session)			
Chair: Sanfelice, Ricardo G. Co-Chair: Goebel, Rafal	Univ. of Arizona Loyola Univ. Chicago		
13:30-13:50		TuB01.1	
Sensitivity Analysis of Hybrid Systems with State Jumps with Application to Trajectory Tracking (I), pp. 3065-3070.			
Saccon, Alessandro Van De Wouw, Nathan Nijmeijer, Hendrik	Eindhoven Univ. of Tech Eindhoven Univ. of Tech Eindhoven Univ. of Tech		

13:50-14:10	TuB01.2	Eberard, Damien Seuret, Alexandre	Univ. of Lyon Cnrs
<i>Stochastic Hybrid Inclusions with Diffusive Flows (I)</i> , pp. 3071-3076.			
Teel, Andrew R.	Univ. of California, Santa Barbara		
14:10-14:30	TuB01.3		TuB02.5
<i>On Output Regulation in Systems with Differential Variational Inequalities (I)</i> , pp. 3077-3082.			
Tanwani, Aneel	Univ. of Kaiserslautern	Zemouche, Ali	Univ. of Lorraine
Brogliato, Bernard	INRIA	Alessandri, Angelo	Univ. of Genoa
Prieur, Christophe	CNRS		
14:30-14:50	TuB01.4		TuB02.6
<i>On Almost Lyapunov Functions (I)</i> , pp. 3083-3088.			
Liberzon, Daniel	Univ. Illinois, Urbana-Champaign	Noroozzi, Navid	Sheikh Bahaei Univ
Ying, Charles	Univ. Illinois, Urbana-Champaign	Rüffer, Björn S.	Univ. of Paderborn
Zharnitsky, Vadim	Univ. Illinois, Urbana-Champaign		
14:50-15:10	TuB01.5		
<i>Results on Incremental Stability for a Class of Hybrid Systems</i> , pp. 3089-3094.			
Li, Yuchun	Univ. of California, Santa Cruz	Chair: Yamashita, Yuh	Hokkaido Univ.
Phillips, Sean	Univ. of California, Santa Cruz	Co-Chair: Olaru, Sorin	SUPELEC
Sanfelice, Ricardo G.	Univ. of California, Santa Cruz		
15:10-15:30	TuB01.6		TuB03.1
<i>Time-Stepping Methods for Constructing Periodic Solutions in Maximally Monotone Set-Valued Dynamical Systems (I)</i> , pp. 3095-3100.			
Heemels, W.P.M.H.	Eindhoven Univ. of Tech	Ghosh, Supratim	Singapore Univ. of Tech. and Design
Sessa, Valentina	Univ. of Sannio	Ruths, Justin	Singapore Univ. of Tech. & Design
Vasca, Francesco	Univ. of Sannio		
Camlibel, M. Kanat	Univ. of Groningen		
TuB02	Salon G		TuB03.2
Stability of Nonlinear Systems I (Regular Session)			
Chair: Rüffer, Björn S.	Univ. of Paderborn	Control Design and Analysis for Discrete Time Bilinear Systems Using Sum of Squares Methods, pp. 3143-3148.	
Co-Chair: Lestas, Ioannis	Univ. of Cambridge	Vatani, Mohsen	Norwegian Univ. of Science and Tech
13:30-13:50	TuB02.1	Hovd, Morten	Norwegian Univ. of Sci & Tech
<i>Robust Lyapunov Functions for Complex Reaction Networks: An Uncertain System Framework</i> , pp. 3101-3106.		Olaru, Sorin	Supelec
Ali, Muhammad	Imperial College, London		
Angeli, David	Imperial College, London		
13:50-14:10	TuB02.2		TuB03.3
<i>Global CLF Stabilization of Systems with Respect to a Hyperbox, Allowing the Null-Control Input in Its Boundary (positive Controls) (I)</i> , pp. 3107-3112.			
Leyva, Horacio	Sonora Univ	Generalized Hankel Interaction Index Array for Control Structure Selection for Discrete-Time MIMO Bilinear Processes and Plants, pp. 3149-3154.	
Solis-Daun, Julio	Univ. Autonoma Metropolitana-Iztapalapa	Shaker, Hamid Reza	Univ. of Southern Denmark
14:10-14:30	TuB02.3	Tahavori, Maryamsadat	Univ. of Southern Denmark
<i>Delay-Independent Global Convergence in Time-Varying Monotone Systems of Delay Differential Equations Satisfying a Scalability Condition</i> , pp. 3113-3118.			TuB03.4
Devane, Eoin	Univ. of Cambridge	Mironchenko, Andrii	Univ. of Würzburg
Lestas, Ioannis	Univ. of Cambridge	Ito, Hiroshi	Kyushu Inst. of Tech
14:30-14:50	TuB02.4		
<i>Robust Stability for Delayed Port-Hamiltonian Systems Using Improved Wirtinger Based Inequality</i> , pp. 3119-3124.			TuB03.5
Awous, Saïd	Univ. of Lyon	On Controllability of Driftless Inhomogeneous Bilinear Systems, pp. 3161-3166.	
Lombardi, Warody	Cea - Leti	Tie, Lin	Beihang Univ.
15:10-15:30	TuB02.6		TuB03.6
<i>Homogeneous Stabilization of Driftless Input-Affine Systems Using Wiener Processes</i> , pp. 3167-3172.			
Hoshino, Kenta	Aoyama Gakuin Univ		
Yamashita, Yuh	Hokkaido Univ		
Nishimura, Yuki	Kagoshima Univ		
Tsubakino, Daisuke	Hokkaido Univ		

TuB04	Salon I	TuB05.2
Linear Systems II (Regular Session)		
Chair: Romagnoli, Raffaele	Univ. Pol. delle Marche	
Co-Chair: Mabrok, Mohamed Abdalla	Univ. of New South Wales at ADFA	
13:30-13:50	TuB04.1	
<i>Output-Transition Optimization through a Multi-Objective Least Square Procedure, pp. 3173-3179.</i>		
Orsini, Valentina	Univ. Pol. Delle Marche	
Jetto, L.	Univ. Pol. Delle Marche	
Romagnoli, Raffaele	Univ. Pol. Delle Marche	
13:50-14:10	TuB04.2	
<i>A Subspace System Identification Algorithm Guaranteeing the Negative Imaginary Property, pp. 3180-3185.</i>		
Mabrok, Mohamed Abdalla	Univ. of New South Wales at the AustralianDefenceForceAcad	
Haggag, Mohamed	Mansoura Univ	
Petersen, Ian R.	Univ. of New South Wales at the AustralianDefenceForceAcad	
Lanzon, Alexander	Univ. of Manchester	
14:10-14:30	TuB04.3	
<i>Performance Survey of Robust Pole Placement Methods, pp. 3186-3191.</i>		
Pandey, Amit	Univ. of California, San Diego	
Schmid, Robert	The Univ. of Melbourne	
Nguyen, Thang	Univ. of Exeter	
Yang, Yaguang	NRC	
Sima, Vasile	Nat. Inst. F. Res. in Informatics	
Tits, Andre L.	Univ. of Maryland	
14:30-14:50	TuB04.4	
<i>A New Method for Finding Minimum Phase Outputs, pp. 3192-3196.</i>		
Jahangiri, Fatemeh	Amirkabir Univ. of Tech	
Talebi, H.A.	Amirkabir Univ. of Tech	
Menhaj, Mohammad Bagher	Amirkabir Univ. of Tech	
Ebenbauer, Christian	Univ. of Stuttgart	
Allgöwer, Frank	Univ. of Stuttgart	
14:50-15:10	TuB04.5	
<i>Experimental Flutter and Buffet Suppression of a Sectional Suspended-Bridge, pp. 3197-3202.</i>		
Zhao, Xiaowei	Univ. of Warwick	
Gouder, Kevin	Imperial Coll. London	
Limebeer, David	Univ. of Oxford	
Graham, J Michael R	Imperial Coll. London	
15:10-15:30	TuB04.6	
<i>Multiple Access Gaussian Channels with Feedback, pp. 3203-3208.</i>		
Freudenberg, James S.	Univ. of Michigan	
Middleton, Richard H.	The Univ. of Newcastle	
TuB05	Salon J	TuB05.3
Distributed Control II (Regular Session)		
Chair: Gayme, Dennice	The Johns Hopkins Univ.	
Co-Chair: Dominguez-Garcia, Alejandro	Univ. of Illinois at Urbana-Champaign	
13:30-13:50	TuB05.1	
<i>Minimizing Interactions in Mixed Oscillator Networks, pp. 3209-3215.</i>		
Grunberg, Theodore	The Johns Hopkins Univ	
Gayme, Dennice	The Johns Hopkins Univ	
13:50-14:10		TuB05.2
<i>Distributed Control of Drinking Water Networks Using Population Dynamics: Barcelona Case Study, pp. 3216-3221.</i>		
Barreiro-Gomez, Julian	Univ. De Los Andes	
Quijano, Nicancor	Univ. De Los Andes	
Ocampo-Martinez, Carlos	Tech. Univ. of Catalonia (UPC)	
14:10-14:30		TuB05.3
<i>A Newton Algorithm for Distributed Semi-Definite Programs Using the Primal-Dual Interior-Point Method, pp. 3222-3227.</i>		
Gros, Sebastien	Chalmers Univ. of Tech	
14:30-14:50		TuB05.4
<i>Stochastic Distributed Predictive Control of Independent Systems with Coupling Constraints, pp. 3228-3233.</i>		
Perizzato, Andrea	Pol. di Milano	
Farina, Marcello	Pol. di Milano	
Scattolini, Riccardo	Pol. di Milano	
14:50-15:10		TuB05.5
<i>A Set Stabilization Approach for Circular Formations of Rigid Bodies, pp. 3234-3239.</i>		
EI-Hawwary, Mohamed, I.	Univ. of Toronto	
15:10-15:30		TuB05.6
<i>Convergence Rate of a Distributed Algorithm for Matrix Scaling to Doubly Stochastic Form, pp. 3240-3245.</i>		
Dominguez-Garcia, Alejandro	Univ. Illinois,Urbana-Champaign	
Hadjicostis, Christoforos	Univ. of Cyprus	
TuB06	Salon 6	
Electrical Power Systems III (Regular Session)		
Chair: Bodson, Marc	Univ. of Utah	
Co-Chair: Salapaka, Srinivasa	Univ. of Illinois	
13:30-13:50		TuB06.1
<i>Viability and Analysis of Implementing Only Voltage-Power Droop for Parallel Inverter Systems, pp. 3246-3251.</i>		
Salapaka, Srinivasa	Univ. of Illinois	
Johnson, Brian	National Renewable Energy Lab.	
Lundstrom, Blake	National Renewable Energy Lab.	
Kim, Sangsun	Google Inc.	
Collyer, Scott	Google Inc.	
Salapaka, Murti V.	Univ. of Minnesota, Minneapolis	
13:50-14:10		TuB06.2
<i>Preventing Cascading Failures in Microgrids with One-Sided Support Vector Machines, pp. 3252-3258.</i>		
Wytock, Matt	Carnegie Mellon Univ	
Salapaka, Srinivasa	Univ. of Illinois	
Salapaka, Murti V.	Univ. of Minnesota, Minneapolis	
14:10-14:30		TuB06.3
<i>Variability and the Locational Marginal Value of Energy Storage, pp. 3259-3265.</i>		
Bose, Subhonimesh	California Inst. of Tech	
Bitar, Eilyan	Cornell Univ	
14:30-14:50		TuB06.4
<i>Multi-Time-Scale Stability Analysis and Design Conditions of a VSC Terminal with DC Voltage Droop Control for HVDC Networks, pp. 3266-3271.</i>		
Chen, Yijing	The Lab. of Signals and Systems	
Damm, Gilney	Evry Univ	

Benchaib, Abdelkrim Lamnabhi-Lagarrigue, Francoise	Areva T&D PEM CNRS and EECI	Nadri, Madiha Dufour, Pascal Tona, Paolino Sciarretta, Antonio	Univ. Claude Bernard Lyon 1 Univ. Claude Bernard Lyon 1 Ifp Swiss Federal Inst. of Tech
14:50-15:10	TuB06.5		
<i>Almost Global Asymptotic Stability of a Constant Field Current Synchronous Machine Connected to an Infinite Bus</i> , pp. 3272-3279.			
Natarajan, Vivek Weiss, George	Tel Aviv Univ Tel Aviv Univ		
15:10-15:30	TuB06.6		
<i>Cooperative Line-Flow Power Electronics Control for Transient Stabilization</i> , pp. 3280-3285.			
Cvetkovic, Milos Ilic, Marija	Carnegie Mellon Univ Carnegie Mellon Univ		
TuB07	Salon 7		
Automotive Control (Regular Session)			
Chair: Horn, Martin Co-Chair: Sun, Zongxuan	Graz Univ. of Tech. Univ. of Minnesota		
13:30-13:50	TuB07.1		
<i>A Model-Based Approach for Prediction-Based Interconnection of Dynamic Systems</i> , pp. 3286-3291.			
Stettlinger, Georg Horn, Martin Benedikt, Martin Zehetner, Josef	Graz Univ. of Tech Graz Univ. of Tech Virtual Vehicle Res. Center AVL List GmbH		
13:50-14:10	TuB07.2		
<i>Robust Position Tracking Control of a Camless Engine Valve Actuator with Time-Varying Reference Frequency</i> (I), pp. 3292-3297.			
Yoon, Yongsoon Yang, Meng Sun, Zongxuan	Univ. of Minnesota Univ. of Minnesota Univ. of Minnesota		
14:10-14:30	TuB07.3		
<i>Robust Anti-Jerk Control for Electric Vehicles with Multi-Speed Transmission</i> , pp. 3298-3303.			
König, Daniel H. Riemann, Bernd Böhning, Marc	TU Darmstadt TU Darmstadt Zeppelin Power Systems GmbH & Co. KG		
Syrnik, Robert Rinderknecht, Stephan	Continental Automotive GmbH TU Darmstadt		
14:30-14:50	TuB07.4		
<i>A Dual Decomposition Approach to Complete Energy Management for a Heavy-Duty Vehicle</i> , pp. 3304-3309.			
Romijn, T.C.J. Donkers, M.C.F. Kessels, J.T.B.A. Weiland, Siep	Eindhoven Univ. of Tech Eindhoven Univ. of Tech Eindhoven Univ. of Tech Eindhoven Univ. of Tech		
14:50-15:10	TuB07.5		
<i>Energy and Power Management in a Series Hybrid Electric Vehicle Using Selective Evolutionary Generation</i> (I), pp. 3310-3315.			
Menezes, Amor A. Kolmanovsky, Ilya V.	Univ. of California, Berkeley Univ. of Michigan		
15:10-15:30	TuB07.6		
<i>Control Design for an Automotive Turbine Rankine Cycle System Based on Nonlinear State Estimation</i> , pp. 3316-3321.			
Peralez, Johan	IFP Energies Nouvelles		
TuB08	Salon 8		
System Identification, Estimation and Probabilistic Robustness (Invited Session)			
Chair: Pasik-Duncan, Bozenna Co-Chair: Ljung, Lennart Organizer: Pasik-Duncan, Bozenna Organizer: Ljung, Lennart	Univ. of Kansas Linkoping Univ. Univ. of Kansas Linkoping Univ.		
13:30-13:50	TuB08.1		
<i>A Weighted Least-Squares Method for Parameter Estimation in Structured Models</i> (I), pp. 3322-3327.			
Galrinho, Miguel Rojas, Cristian R. Hjalmarsson, Håkan	KTH Royal Inst. of Tech KTH Royal Inst. of Tech KTH Royal Inst. of Tech		
13:50-14:10	TuB08.2		
<i>Identification of Wiener Systems with Process Noise Is a Nonlinear Errors-In-Variables Problem</i> (I), pp. 3328-3333.			
Wahlberg, Bo Welsh, James S. Ljung, Lennart	KTH Royal Inst. of Tech Univ. of Newcastle Linkoping Univ		
14:10-14:30	TuB08.3		
<i>Direct and Indirect Continuous-Time Identification in Dynamic Networks</i> (I), pp. 3334-3339.			
Dankers, Arne Van den Hof, Paul M.J. Bombois, Xavier	Delft Univ. of Tech Eindhoven Univ. of Tech Delft Univ. of Tech		
14:30-14:50	TuB08.4		
<i>Stochastic Embedding Revisited: A Modern Interpretation</i> (I), pp. 3340-3345.			
Ljung, Lennart Goodwin, Graham C. Agüero, Juan C.	Linkoping Univ Univ. of Newcastle Univ. of Newcastle		
14:50-15:10	TuB08.5		
<i>On the Design of Multiple Kernels for Nonparametric Linear System Identification</i> (I), pp. 3346-3351.			
Chiuso, Alessandro Chen, Tianshi Ljung, Lennart Pillonetto, Gianluigi	Univ. di Padova Linköping Univ Linkoping Univ Univ. di Padova		
15:10-15:30	TuB08.6		
<i>Strong Consistency of the Sign-Perturbed Sums Method</i> , pp. 3352-3357.			
Csaji, Balázs Campi, M. C. Weyer, Erik	MTA SZTAKI Univ. di Brescia Univ. of Melbourne		

TuB09	Salon 9	
Estimation V (Regular Session)		
Chair: Burke, James V.	Univ. of Washington	
Co-Chair: Zhou, Tong	Tsinghua Univ.	
13:30-13:50	TuB09.1	
<i>Optimal Distributed Observer Design for Networked Dynamical Systems</i> , pp. 3358-3363.		
Zhou, Tong	Tsinghua Univ.	
13:50-14:10	TuB09.2	
<i>Fast Inertia Property Estimation Via Convex Optimization for the Asteroid Redirect Mission</i> , pp. 3364-3369.		
Lee, Unsiik	Univ. of Washington	
Besson, David	Univ. of Washington	
Mesbahi, Mehran	Univ. of Washington	
14:10-14:30	TuB09.3	
<i>Minimum-Energy Distributed Filtering</i> , pp. 3370-3375.		
Zamani, Mohammad	Univ. of New South Wales ADFA	
Ugrinovskii, Valery	Univ. of New South Wales ADFA	
14:30-14:50	TuB09.4	
<i>IMU-Based Vehicle Load Estimation under Normal Driving Conditions</i> , pp. 3376-3381.		
Sadeghi Reineh, Maryam	Linköping Univ	
Enqvist, Martin	Linköping Univ	
Gustafsson, Fredrik	Linkoping Univ	
14:50-15:10	TuB09.5	
<i>Smoothing Dynamic Systems with State-Dependent Covariance Matrices</i> , pp. 3382-3387.		
Aravkin, Aleksandr Y.	IBM T.J. Watson Res. Center	
Burke, James V.	Univ. of Washington	
15:10-15:30	TuB09.6	
<i>Generalized Innovation and Inference Algorithms for Hidden Mode Switched Linear Stochastic Systems with Unknown Inputs</i> , pp. 3388-3394.		
Yong, Sze Zheng	Massachusetts Inst. of Tech	
Zhu, Minghui	Pennsylvania State Univ	
Fazzoli, Emilio	Massachusetts Inst. of Tech	
TuB10	Salon 10	
Stochastic Systems II (Regular Session)		
Chair: Zamani, Majid	Tech. Univ. München	
Co-Chair: Maginnis, Peter A.	Univ. Illinois, Urbana Champaign	
13:30-13:50	TuB10.1	
<i>Compositional Approximations of Interconnected Stochastic Hybrid Systems</i> , pp. 3395-3400.		
Zamani, Majid	Tech. Univ. München	
13:50-14:10	TuB10.2	
<i>Exact Simulation of Continuous Time Markov Jump Processes with Anticorrelated Variance Reduced Monte Carlo Estimation</i> , pp. 3401-3407.		
Maginnis, Peter A.	Univ. Illinois, Urbana Champaign	
West, Matthew	Univ. Illinois, Urbana Champaign	
Dullerud, Geir E.	Univ. Illinois, Urbana Champaign	
14:10-14:30	TuB10.3	
<i>Stochastic Bounded Confidence Opinion Dynamics</i> , pp. 3408-3413.		
Baccelli, Francois	Inria	
Chatterjee, Avhishek	The Univ. of Texas at Austin	
Vishwanath, Sriram	The Univ. of Texas at Austin	
14:30-14:50	TuB10.4	
<i>Mean Field Limits by Population Acceleration</i> , pp. 3414-3419.		
Honnappa, Harsha	Univ. of Southern California	
Jain, Rahul	Univ. of Southern California	
Ward, Amy	Usc	
14:50-15:10	TuB10.5	
<i>Stochastic Numerical Analysis for Brownian Motion on SO(3)</i> , pp. 3420-3425.		
Piggott, Marc James	Univ. of New South Wales	
Solo, Victor	Univ. of New South Wales	
15:10-15:30	TuB10.6	
<i>Sampling Multidimensional Wiener Processes</i> , pp. 3426-3431.		
Nar, Kamil	Univ. Illinois, Urbana Champaign	
Basar, Tamer	Univ. Illinois, Urbana Champaign	
TuB11	Georgia 1	
Extremum Seeking II (Regular Session)		
Chair: Guay, Martin	Queen's Univ.	
Co-Chair: Oliveira, Tiago Roux	State Univ. of Rio de Janeiro	
13:30-13:50	TuB11.1	
<i>Fast Extremum Seeking for Optimization of Brake Specific Fuel Consumption</i> , pp. 3432-3437.		
Sharifi, Jalil	The Univ. of Melbourne	
Hager, Simon	ETH Zurich	
Moase, William H.	The Univ. of Melbourne	
Dennis, Peter	The Univ. of Melbourne	
Brear, Michael	The Univ. of Melbourne	
Manzie, Chris	The Univ. of Melbourne	
13:50-14:10	TuB11.2	
<i>A Utopic Multi-Objective Extremum-Seeking Controller Design Technique</i> , pp. 3438-3443.		
Guay, Martin	Queen's Univ	
Dochain, Denis	Univ. Catholique De Louvain	
14:10-14:30	TuB11.3	
<i>Plasma Impedance Matching Using Fractional Order Sliding Mode Based Extremum Seeking Control</i> , pp. 3444-3449.		
Li, Zhuo	Univ. of California, Merced	
Yin, Chun	Univ. of California, Merced	
Chen, Yang-Quan	Univ. of California, Merced	
14:30-14:50	TuB11.4	
<i>Extremum-Seeking Control of Distributed Systems Using Consensus Estimation</i> , pp. 3450-3455.		
Dougherty, Sean	Queen's Univ	
Guay, Martin	Queen's Univ	
14:50-15:10	TuB11.5	
<i>Monitoring Function Based Extremum Seeking Control for Uncertain Relative Degrees with Light Source Seeking Experiments</i> , pp. 3456-3462.		
Oliveira, Tiago Roux	State Univ. of Rio De Janeiro	
Aminde, Nerito Oliveira	Federal Univ. of Rio De Janeiro	
Hsu, Liu	COPPE/UFRJ	

15:10-15:30	TuB11.6	Yu, Shiming Song, Xiulan	Zhejiang Univ. of Tech Zhejiang Univ. of Tech
<i>A Hybrid Seeking Approach for Robust Learning in Multi-Agent Systems</i> , pp. 3463-3468.			
Poveda, J. Iván Teel, Andrew R.	Univ. of California, Santa Barbara Univ. of California, Santa Barbara		
TuB12 Georgia 2			
Mean Field Games II (Invited Session)			
Chair: Bauso, Dario Co-Chair: Gomes, Diogo	Univ. di Palermo King Abdullah Univ. of Science and Tech.		
13:30-13:50	TuB12.1		
<i>Density Flow Over Networks: A Mean-Field Game Theoretic Approach (I)</i> , pp. 3469-3474.			
Bauso, Dario Zhang, Xuan Papachristodoulou, Antonis	Univ. di Palermo Univ. of Oxford Univ. of Oxford		
13:50-14:10	TuB12.2		
<i>Opinion Dynamics, Stubbornness and Mean--Field Games (I)</i> , pp. 3475-3480.			
Bauso, Dario Pesenti, Raffaele	Univ. di Palermo Univ. of Venice - Ca' Foscari		
14:10-14:30	TuB12.3		
<i>A Stochastic Maximum Principle for Risk-Sensitive Mean-Field Type Control (I)</i> , pp. 3481-3486.			
Djehiche, Boualem Tembine, Hamidou Tempone, Raul	The Royal Inst. of Tech Supelec Kaust		
14:30-14:50	TuB12.4		
<i>A Coupled Oscillators-Based Control Architecture for Locomotory Gaits (I)</i> , pp. 3487-3492.			
Taghvaei, Amirhossein Hutchinson, Seth Mehta, Prashant G.	Univ. Illinois, Urbana-Champaign Univ. Illinois, Urbana-Champaign Univ. Illinois, Urbana-Champaign		
14:50-15:10	TuB12.5		
<i>A Class of Collective Target Tracking Problems in Energy Systems: Cooperative versus Non-Cooperative Mean Field Control Solutions (I)</i> , pp. 3493-3498.			
Kizilkale, Arman C. Malhame, Roland P.	Ec. Pol. De Montreal Ec. Pol. De Montreal		
15:10-15:30	TuB12.6		
<i>The Importance of Exploration in Online Marketplaces (I)</i> , pp. 3499-3504.			
Banerjee, Siddhartha Zhou, Zhengyuan Johari, Ramesh	Stanford Univ Stanford Univ Stanford Univ		
TuB13 Atrium 1			
Nonlinear Predictive Control (Regular Session)			
Chair: Copp, David A. Co-Chair: He, Defeng	Univ. of California, Santa Barbara Zhejiang Univ. of Tech.		
13:30-13:50	TuB13.1		
<i>Lyapunov-Based Dual-Mode Method for Economic Optimization Model Predictive Control</i> , pp. 3505-3510.			
He, Defeng	Zhejiang Univ. of Tech		
TuB14 Olympic 1			
Output-Based Event-Triggered Control (Invited Session)			
Chair: Heemels, W.P.M.H. Co-Chair: Hirche, Sandra Organizer: Heemels, W.P.M.H. Organizer: Hirche, Sandra Organizer: Johansson, Karl Henrik	Eindhoven Univ. of Tech. Tech. Univ. München Eindhoven Univ. of Tech. Tech. Univ. München Royal Inst. of Tech.		
13:30-13:50	TuB14.1		
<i>Event Triggering in Vehicular Networked Systems with Limited Bandwidth and Deep Fading (I)</i> , pp. 3542-3547.			
Hu, Bin Lemmon, Michael	Univ. of Notre Dame Univ. of Notre Dame		
13:50-14:10	TuB14.2		
<i>Event-Triggered Projected Luenberger Observer for Linear Systems under Sparse Sensor Attacks (I)</i> , pp. 3548-3553.			
Shoukry, Yasser Tabuada, Paulo	Univ. of California, Los Angeles Univ. of California, Los Angeles		

14:10-14:30	TuB14.3	
<i>Distributed Event-Triggered Control for Output Synchronization of Dynamical Networks with Non-Identical Nodes (I)</i> , pp. 3554-3559.		
Liu, Tao Cao, Ming Hill, David J.	The Univ. of Hong Kong Univ. of Groningen The Univ. of Sydney	
14:30-14:50	TuB14.4	
<i>Co-Design of Output Feedback Laws and Event-Triggering Conditions for Linear Systems (I)</i> , pp. 3560-3565.		
Abdelrahim, Mahmoud Postoyan, Romain Daafouz, Jamal Nesic, Dragan	Univ. De Lorraine Cnrs-Cran Univ. De Lorraine, CRAN, CNRS Univ. of Melbourne	
14:50-15:10	TuB14.5	
<i>Event-Triggered Output Feedback Stabilization of Networked Systems with External Disturbance (I)</i> , pp. 3566-3571.		
Garcia, Eloy Antsaklis, Panos J.	Infoscitex Corp Univ. of Notre Dame	
15:10-15:30	TuB14.6	
<i>Output Synchronization of Heterogeneous LTI Plants with Event-Triggered Communication (I)</i> , pp. 3572-3577.		
Almeida, João Silvestre, Carlos Pascoal, Antonio Manuel	Inst. Superior Técnico Univ. of Macau Inst. Superior Tecnico	
TuB15	Atrium 2	
Iterative Learning Control and Optimization (Regular Session)		
Chair: Schoellig, Angela Co-Chair: Bolder, Joost	Univ. of Toronto Eindhoven Univ. of Tech.	
13:30-13:50	TuB15.1	
<i>Model-Free Adaptive Learning Solutions for Discrete-Time Dynamic Graphical Games</i> , pp. 3578-3583.		
Abouheaf, Mohammed Lewis, Frank L. Mahmoud, Magdi S.	King Fahd Univ. of Petroleum & Mineral (KFUPM) Univ. of Texas at Arlington King Fahd Univ. for Petroleum and Minerals	
13:50-14:10	TuB15.2	
<i>Aspects in Inferential Iterative Learning Control: A 2D Systems Analysis</i> , pp. 3584-3589.		
Bolder, Joost Oomen, Tom Steinbuch, Maarten	Eindhoven Univ. of Tech Eindhoven Univ. of Tech Eindhoven Univ. of Tech	
14:10-14:30	TuB15.3	
<i>Design of Norm-Optimal Iterative Learning Controllers: The Effect of an Iteration-Domain Kalman Filter for Disturbance Estimation</i> , pp. 3590-3596.		
Degen, Nicolas Schoellig, Angela Petra	ETH Zurich Univ. of Toronto	
14:30-14:50	TuB15.4	
<i>An Actor Critic Algorithm Based on Grassmannian Search</i> , pp. 3597-3602.		
K.J., Prabuchandran Bhatnagar, Shalabh Borkar, Vivek	Indian Inst. of Science, Bangalore Indian Inst. of Science Indian Inst. of Tech	
14:50-15:10	TuB15.5	
<i>Adaptive Dynamic Programming for Nonlinear Nonaffine Systems</i> , pp. 3603-3608.		
Bian, Tao Jiang, Yu Jiang, Zhong-Ping	New York Univ New York Univ New York Univ	
15:10-15:30	TuB15.6	
<i>Control of a Gantry Crane: A Reach Control Approach</i> , pp. 3609-3614.		
Vukosavljev, Marijan Broucke, Mireille E.	Univ. of Toronto Univ. of Toronto	
TuB16		
Model Reduction I (Regular Session)		
Chair: Ionescu, Tudor C. Co-Chair: Sootla, Aivar	Univ. of Sheffield Imperial Coll. London	Olympic 2
13:30-13:50	TuB16.1	
<i>On Projection-Based Model Reduction of Biochemical Networks Part I: The Deterministic Case</i> , pp. 3615-3620.		
Sootla, Aivar Anderson, James	Imperial Coll. London Univ. of Oxford	
13:50-14:10	TuB16.2	
<i>On Projection-Based Model Reduction of Biochemical Networks Part II: The Stochastic Case</i> , pp. 3621-3626.		
Sootla, Aivar Anderson, James	Imperial Coll. London Univ. of Oxford	
14:10-14:30	TuB16.3	
<i>Reduced-Order Fuzzy Modeling for Nonlinear Switched Systems</i> , pp. 3627-3630.		
Su, Xiaojie Shi, Peng Wu, Ligang Zhang, Lixian Zhao, Yuxin	Chongqing Univ Univ. of Adelaide Harbin Inst. of Tech Harbin Inst. of Tech Harbin Inst. of Tech	
14:30-14:50	TuB16.4	
<i>Model Reduction by Moment Matching for ZIP Systems</i> , pp. 3631-3636.		
Padoan, Alberto Astolfi, Alessandro	Imperial Coll. London Imperial Coll. & Univ. of Rome	
14:50-15:10	TuB16.5	
<i>Approximate Regularization Path for Nuclear Norm Based H2 Model Reduction</i> , pp. 3637-3641.		
Blomberg, Niclas Rojas, Cristian R. Wahlberg, Bo	KTH Royal Inst. of Tech KTH Royal Inst. of Tech KTH Royal Inst. of Tech	
15:10-15:30	TuB16.6	
<i>Model Reduction by Moment Matching for Nonlinear Time-Delay Systems</i> , pp. 3642-3647.		
Scariotti, Giordano Astolfi, Alessandro	Imperial Coll. London Imperial Coll. & Univ. of Rome	

TuB17	Atrium 3	Upfa
Network Analysis and Control II (Regular Session)		
Chair: Savla, Ketan	Univ. of Southern California	Nurc
Co-Chair: Como, Giacomo	Lund Univ.	
13:30-13:50	TuB17.1	TuB18.3
<i>Robustness of Large-Scale Stochastic Matrices to Localized Perturbations</i> , pp. 3648-3653.		
Como, Giacomo	Lund Univ	Boston Univ
Fagnani, Fabio	Pol. di Torino	Boston Univ
13:50-14:10	TuB17.2	Bilkent Univ
<i>Spatial Decay Analysis in Interconnected Dynamical Systems Using Vector Lyapunov Functions</i> , pp. 3654-3660.		
Deroo, Frederik	Tech. Univ. München	
Hirche, Sandra	Tech. Univ. München	
Anderson, Brian D.O.	Australian National Univ	
14:10-14:30	TuB17.3	TuB18.4
<i>On the Strengths of Connectivity and Robustness in General Random Intersection Graphs</i> , pp. 3661-3668.		
Zhao, Jun	Carnegie Mellon Univ	
Yagan, Osman	Carnegie Mellon Univ	
Gligor, Virgil	Carnegie Mellon Univ	
14:30-14:50	TuB17.4	TuB18.5
<i>Robust Scheduling in a Flexible Fork-Join Network</i> , pp. 3669-3676.		
Pedarsani, Ramtin	Univ. of California, Berkeley	
Walrand, Jean	Univ. of California, Berkeley	
Zhong, Yuan	Columbia Univ	
14:50-15:10	TuB17.5	TuB18.6
<i>Bounded Synchronization in Resistive Multi-Terminal VSC-HVDC Transmission Systems</i> , pp. 3677-3682.		
Dòria-Cerezo, Arnau	Univ. Pol. De Catalunya	
Olm, Josep M.	Univ. Pol. De Catalunya	
di Bernardo, Mario	Univ. of Naples Federico II	
Quaglia, Massimiliano	Univ. of Naples Federico II	
Nuño, Emmanuel	Univ. of Guadalajara	
15:10-15:30	TuB17.6	
<i>On the Control of Power Consumption in Server Farms Via Heavy Traffic Approximation</i> , pp. 3683-3688.		
Leite, Saul de Castro	Federal Univ. of Juiz De Fora	
Fragoso, Marcelo	Lncc / Mct	
TuB18	Olympic 3	Plaza 1
Cooperative Control II (Regular Session)		
Chair: Bechlioulis, Charalampos	National Tech. Univ. of Athens	
Co-Chair: Morarescu, Irinel-Constantin	Univ. de Lorraine	
13:30-13:50	TuB18.1	TuB19.1
<i>Robust Control of Large Vehicular Platoons with Prescribed Transient and Steady State Performance</i> , pp. 3689-3694.		
Bechlioulis, Charalampos	National Tech. Univ. of Athens	
Dimarogonas, Dimos V.	Royal Inst. of Tech	
Kyriakopoulos, Kostas J.	National Tech. Univ. of Athens	
13:50-14:10	TuB18.2	TuB19.2
<i>Distributed Formation Tracking Control of Multiple Mobile Robotic Systems</i> , pp. 3695-3700.		
Chen, Chunyu	Univ. of Texas-Pan American	
Xing, Yifan	The Univ. of Texas -Pan American	
Djapic, Vladimir		
Dong, Wenjie		
14:10-14:30		
<i>Escaping Local Optima in a Class of Multi-Agent Distributed Optimization Problems: A Boosting Function Approach</i> , pp. 3701-3706.		
Sun, Xinmiao	Boston Univ	
Cassandras, Christos G.	Boston Univ	
Gokbayrak, Kagan	Bilkent Univ	
14:30-14:50		
<i>Stability of a Distributed Algorithm for Solving Linear Algebraic Equations</i> , pp. 3707-3712.		
Liu, Ji	Univ. Illinois, Urbana-Champaign	
Morse, A. Stephen	Yale Univ	
Nedich, Angelia	Univ. Illinois, Urbana-Champaign	
Basar, Tamer	Univ. Illinois, Urbana-Champaign	
14:50-15:10		
<i>Coordination in Networks of Linear Impulsive Agents</i> , pp. 3713-3718.		
Morarescu, Irinel-Constantin	Cran Cnrs Umr 7039 - UI	
Martin, Samuel	Univ. De Lorraine	
Girard, Antoine	Univ. Joseph Fourier	
15:10-15:30		
<i>Trajectory Optimization for Multi-Agent Persistent Monitoring in Two-Dimensional Spaces</i> , pp. 3719-3724.		
Lin, Xuchao	Boston Univ	
Cassandras, Christos G.	Boston Univ	
TuB19		
Motion Planning (Regular Session)		
Chair: Cowlagi, Raghvendra V.	Worcester Pol. Inst.	
Co-Chair: Kawski, Matthias	Arizona State Univ.	
13:30-13:50		
<i>Trailer-Like Leader Following Trajectory Planning</i> , pp. 3725-3730.		
Ótão Pereira, Pedro Miguel	Inst. Superior Técnico	
Cunha, Rita	Inst. Superior Técnico	
Cabecinhas, David	Inst. Superior Tecnico	
Silvestre, Carlos	Univ. of Macau	
Oliveira, Paulo Jorge	Inst. Superior Técnico	
13:50-14:10		
<i>Minimal Complexity Sinusoidal Controls for Path Planning</i> , pp. 3731-3736.		
Kawski, Matthias	Arizona State Univ	
Gauthier, Jean-Paul	Université de Toulon	
14:10-14:30		
<i>Embedding Nonlinear Optimization in RRT* for Optimal Kinodynamic Planning</i> , pp. 3737-3744.		
Stoneman, Samantha	German Aerospace Center (DLR)	
Lampariello, Roberto	German Aerospace Center (DLR)	
14:30-14:50		
<i>Multiresolution Path-Planning with Traversal Costs Based on Time-Varying Spatial Fields</i> , pp. 3745-3750.		
Cowlagi, Raghvendra V.	Worcester Pol. Inst	

14:50-15:10	TuB19.5	
<i>On F-Invariant and Attractive Affine Varieties for Continuous-Time Polynomial Systems: The Case of Robot Motion Planning</i> , pp. 3751-3756.		
Possieri, Corrado Tornambe, Antonio	Univ. Di Roma Tor Vergata Univ. Di Roma Tor Vergata	
TuB20	Plaza 2	
Networked Control Systems: Consensus, Estimation and Security (Invited Session)		
Chair: Mo, Yilin Co-Chair: Shi, Ling Organizer: Mo, Yilin Organizer: Shi, Ling Organizer: Sinopoli, Bruno	California Inst. of Tech. Hong Kong Univ. of Sci. and Tech. California Inst. of Tech. Hong Kong Univ. of Sci. and Tech. Carnegie Mellon Univ.	
13:30-13:50	TuB20.1	
<i>Detecting Integrity Attacks on Control Systems Using Robust Physical Watermarking (I)</i> , pp. 3757-3764.		
Weerakkody, Sean Mo, Yilin Sinopoli, Bruno	Carnegie Mellon Univ California Inst. of Tech Carnegie Mellon Univ	
13:50-14:10	TuB20.2	
<i>Optimal DoS Attack on Bayesian Quickest Change Detection (I)</i> , pp. 3765-3770.		
Ren, Xiaoqiang Mo, Yilin Shi, Ling	Hong Kong Univ. of Sci. and Tech. California Inst. of Tech Hong Kong Univ. of Sci. and Tech.	
14:10-14:30	TuB20.3	
<i>Data Rate for Quantized Consensus of High-Order Multi-Agent Systems with Poles on the Unit Circle (I)</i> , pp. 3771-3776.		
Qiu, Zhirong Xie, Lihua Hong, Yiguang	Nanyang Tech. Univ Nanyang Tech. Univ Chinese Acad. of Sciences	
14:30-14:50	TuB20.4	
<i>Opportunistic Sensor Scheduling in Wireless Control Systems (I)</i> , pp. 3777-3782.		
Gatsis, Konstantinos Pajic, Miroslav Ribeiro, Alejandro Pappas, George J.	Univ. of Pennsylvania Univ. of Pennsylvania Univ. of Pennsylvania Univ. of Pennsylvania	
14:50-15:10	TuB20.5	
<i>Probabilistic Convergence of Kalman Filtering with Nonstationary Intermittent Observations (I)</i> , pp. 3783-3788.		
Wu, Junfeng Shi, Guodong Johansson, Karl H.	Royal Inst. of Tech. (KTH) The Australian National Univ Royal Inst. of Tech. (KTH)	
15:10-15:30	TuB20.6	
<i>Consensus Based Bisection Approach for Economic Power Dispatch (I)</i> , pp. 3789-3794.		
Xing, Hao Mou, Yuting Fu, Minyue Lin, Zhiyun	Zhejiang Univ Zhejiang Univ Univ. of Newcastle Zhejiang Univ	
TuB21	Plaza 3	
Biological Systems II (Regular Session)		
Chair: Del Vecchio, Domitilla Co-Chair: Freudenberg, James S.	Massachusetts Inst. of Tech. Univ. of Michigan	
13:30-13:50	TuB21.1	
<i>Human Control Strategies in Pursuit Tracking with a Disturbance Input</i> , pp. 3795-3800.		
Yu, Bo Gillespie, Brent Freudenberg, James S. Cook, Jeffrey A.	Univ. of Michigan, Ann Arbor Univ. of Michigan Univ. of Michigan Univ. of Michigan	
13:50-14:10	TuB21.2	
<i>Direction Following Control of Planar Snake Robots Using Virtual Holonomic Constraints</i> , pp. 3801-3808.		
Mohammadi, Alireza Rezapour, Ehsan Maggiore, Manfredi Pettersen, Kristin Y.	Univ. of Toronto Norwegian Univ. of Science and Tech Univ. of Toronto Norwegian Univ. of Science and Tech	
14:10-14:30	TuB21.3	
<i>Delayed Evolutionary Game Dynamics Wit Non-Uniform Interaction in Two Communities</i> , pp. 3809-3814.		
Ben Khalifa, Nesrine El-Azouzi, Rachid Hayel, Yezekael	Univ. of Avignon Univ. D'avignon Univ. of Avignon	
14:30-14:50	TuB21.4	
<i>Economic Optimization Based on Nonlinear Parametric GPC for a Wastewater Treatment Plant</i> , pp. 3815-3820.		
El bahja, Hicham Revollar, Silvana Vega, Pastora	Univ. De Salamanca Univ. Simón Bolívar Univ. of Salamanca	
14:50-15:10	TuB21.5	
<i>Analyzing the Effect of an Integrate and Fire Encoder and Decoder in Feedback</i> , pp. 3821-3828.		
Saxena, Shreya Dahleh, Munther A.	Massachusetts Inst. of Tech Massachusetts Inst. of Tech	
15:10-15:30	TuB21.6	
<i>Mitigation of Resource Competition in Synthetic Genetic Circuits through Feedback Regulation</i> , pp. 3829-3834.		
Hamadeh, Abdullah Omar Del Vecchio, Domitilla	Massachusetts Inst. of Tech Massachusetts Inst. of Tech	
TuB22	Salon D and E	
Differential Analysis of Nonlinear Systems (Tutorial Session)		
Chair: Sepulchre, Rodolphe J. Co-Chair: Forni, Fulvio Organizer: Sepulchre, Rodolphe J. Organizer: Forni, Fulvio	Univ. of Cambridge Univ. of Liège Univ. of Cambridge Univ. of Liège	
13:30-14:10	TuB22.1	
<i>Contraction Methods for Nonlinear Systems: A Brief Introduction and Some Open Problems (I)</i> , pp. 3835-3847.		
Aminzare, Zahra Sontag, Eduardo D.	Rutgers Univ Rutgers Univ	

14:10-14:50	TuB22.2
<i>Differential Analysis of Nonlinear Systems: Revisiting the Pendulum Example (I)</i> , pp. 3848-3859.	
Forni, Fulvio	Univ. of Liège
Sepulchre, Rodolphe J.	Univ. of Cambridge
14:50-15:30	TuB22.3
<i>An Introduction to Horizontal Contraction and Differential Positivity (I)*</i> .	
Forni, Fulvio	Univ. of Liège
Sepulchre, Rodolphe J.	Univ. of Cambridge
TuC01	Salon F
Quantized Systems (Regular Session)	
Chair: Tarraf, Danielle C.	The Johns Hopkins Univ.
Co-Chair: Basin, Michael V.	Autonomous Univ. of Nuevo Leon
16:00-16:20	TuC01.1
<i>Design and Analysis of Distributed Averaging with Quantized Communication</i> , pp. 3860-3865.	
El Chamie, Mahmoud	INRIA - Sophia Antipolis Méditerranée
Liu, Ji	Univ. of Illinois at Urbana-Champaign
Basar, Tamer	Univ. of Illinois, Urbana-Champaign
16:20-16:40	TuC01.2
<i>Quantized Distributed Load Balancing with Capacity Constraints</i> , pp. 3866-3871.	
Gravelle, Evan	Ucsd
Martinez, Sonia	Univ. of California at San Diego
16:40-17:00	TuC01.3
<i>Receding Horizon Control and Scheduling of Quantized Control Systems with Communication Constraints</i> , pp. 3872-3877.	
Zou, Yuanyuan	East China Univ. of Science & Tech
Niu, Yugang	East China Univ. of Science & Tech
Li, Shaoyuan	Shanghai Jiao Tong Univ
Li, Dewei	Shanghai Jiao Tong Univ
17:00-17:20	TuC01.4
<i>Quantized Control for Nonlinear Markovian Jump Systems</i> , pp. 3878-3883.	
Wu, Ligang	Harbin Inst. of Tech
Shi, Peng	Univ. of Adelaide
Li, Fanbiao	The Univ. of Adelaide
Basin, Michael V.	Autonomous Univ. of Nuevo Leon
Zhao, Yuxin	Coll. of Automation, Harbin Engineering Univ
17:20-17:40	TuC01.5
<i>On Finite Memory Observability of a Class of Systems Over Finite Alphabets with Linear Dynamics</i> , pp. 3884-3891.	
Fan, Donglei	The Johns Hopkins Univ
Tarraf, Danielle C.	The Johns Hopkins Univ
17:40-18:00	TuC01.6
<i>Output Feedback Stabilization of Switched Linear Systems with Limited Information</i> , pp. 3892-3897.	
Wakaiki, Masashi	Kyoto Univ
Yamamoto, Yutaka	Kyoto Univ

TuC02	Salon G
Stability of Nonlinear Systems II (Regular Session)	
Chair: Efimov, Denis	INRIA - LNE
Co-Chair: Alexandridis, Antonio	Univ. of Patras
16:00-16:20	TuC02.1
<i>Uniform Stability Analysis for Time-Varying Systems Applying Homogeneity</i> , pp. 3898-3902.	
Ríos, Héctor	National Autonomous Univ. of Mexico
Efimov, Denis	Inria - Lne
Fridman, Leonid M.	National Autonomous Univ. of Mexico
Moreno, Jaime A.	National Autonomous Univ. of Mexico
Perruquetti, Wilfrid	Ec. Centrale De Lille
16:20-16:40	TuC02.2
<i>Stability of Infinite-Horizon Optimal Control with Discounted Cost</i> , pp. 3903-3908.	
Postoyan, Romain	Cnrs-Cran
Busoniu, Lucian	Tech. Univ. of Cluj-Napoca
Nesic, Dragan	Univ. of Melbourne
Daafouz, Jamal	Univ. De Lorraine, CRAN, CNRS
16:40-17:00	TuC02.3
<i>Nonlinear Analysis of a Grid-Connected Photovoltaic/dc-Load System Driven by Local Current-Mode Controllers</i> , pp. 3909-3914.	
Krommydas, Konstantinos	Univ. of Patras
Alexandridis, Antonio	Univ. of Patras
17:00-17:20	TuC02.4
<i>On Necessary Conditions of Instability and Design of Destabilizing Controls (I)</i> , pp. 3915-3917.	
Efimov, Denis	Inria - Lne
Perruquetti, Wilfrid	Ec. Centrale De Lille
Petreczky, Mihaly	Ec. Des Mines De Douai
17:20-17:40	TuC02.5
<i>A Complete and Convex Search for Discrete-Time Noncausal FIR Zames-Falb Multipliers</i> , pp. 3918-3923.	
Wang, Shuai	Univ. of Manchester
Heath, William Paul	Univ. of Manchester
Carrasco, Joaquin	Univ. of Manchester
17:40-18:00	TuC02.6
<i>Stability Analysis of a Reduced Transcription-Translation Model of RNA Polymerase</i> , pp. 3924-3929.	
Belgacem, Ismail	INRIA Biocore
Grac, Edith	Inria
Ropers, Delphine	Inria
Gouze, Jean-Luc	Inria
TuC03	Salon H
Piecewise Affine and Polytopic Systems (Regular Session)	
Chair: Camlibel, M. Kanat	Univ. of Groningen
Co-Chair: Massioni, Paolo	INSA de Lyon
16:00-16:20	TuC03.1
<i>Concurrent Learning Adaptive Identification of Piecewise Affine Systems</i> , pp. 3930-3935.	
Kersting, Stefan	Tech. Univ. München
Buss, Martin	Tech. Univ. Muenchen

16:20-16:40	TuC03.2	Tosques, Mario	Univ. of Parma
<i>In-Block Controllability of Affine Systems on Polytopes</i> , pp. 3936-3942.		<i>A Bode-Like Integral for Discrete-Time Linear Periodic Systems</i> , pp. 3994-3999.	TuC04.5
Helwa, Mohamed K. Caines, Peter E.	McGill Univ McGill Univ	Zhao, Yingbo Gupta, Vijay	Univ. of Notre Dame Univ. of Notre Dame
16:40-17:00	TuC03.3	17:40-18:00	TuC04.6
<i>Relaxed In-Block Controllability of Affine Systems on Polytopes</i> , pp. 3943-3949.		<i>An Interpolation Approach with Stable Polynomial Interpolants Applied to the Simultaneous Stabilization of a Segment of Systems</i> , pp. 4000-4005.	
Helwa, Mohamed K. Caines, Peter E.	McGill Univ McGill Univ	Fonte, Christophe Meddeb, Houda Zasadzinski, Michel	CNRS & Nancy-Univ Univ. De Lorraine, CRAN Univ. De Lorraine & CRAN
17:00-17:20	TuC03.4	TuC05	Salon J
<i>Hierarchical Control of Piecewise Affine Hybrid Systems</i> , pp. 3950-3956.		Topics in Decentralized and Distributed Control (Invited Session)	
Helwa, Mohamed K. Caines, Peter E.	McGill Univ McGill Univ	Chair: Lessard, Laurent Co-Chair: Jovanovic, Mihailo Organizer: Lessard, Laurent	Univ. of California, Berkeley Univ. of Minnesota Univ. of California, Berkeley
17:20-17:40	TuC03.5	16:00-16:20	TuC05.1
<i>Autonomy, Forward Non-Zenoness and Quadratic Stability of Bimodal Higher-Order Piecewise Linear System</i> , pp. 3957-3962.		<i>Distributed Control Subject to Delays Satisfying an H-Infinity Norm Bound (I)</i> , pp. 4006-4013.	
Rapisarda, Paolo Camlibel, M. Kanat	Univ. of Southampton Univ. of Groningen	Matni, Nikolai	California Inst. of Tech
17:40-18:00	TuC03.6	16:20-16:40	TuC05.2
<i>A Piecewise-Affine Approach to the Analysis of Non-Linear Control Laws for Pneumatic Systems</i> , pp. 3963-3969.		<i>Individually Optimal Solutions to a Remote State Estimation Problem with Communication Costs (I)</i> , pp. 4014-4019.	
Ameur, Omar Massioni, Paolo Scorletti, Gerard Brun, Xavier Smaoui, Mohamed	Ec. Centrale Lyon - Univ. De Lyon INSA De Lyon Ec. Centrale De Lyon Insa De Lyon INSA De Lyon	Park, Shinkyu Martins, Nuno C.	Univ. of Maryland Univ. of Maryland
TuC04	Salon I	16:40-17:00	TuC05.3
Linear Systems III (Regular Session)		<i>Convex Risk Averse Control Design (I)</i> , pp. 4020-4025.	
Chair: Consolini, Luca Co-Chair: Pal, Debasattam	Univ. of Parma Indian Inst. of Tech. Guwahati	Dvijotham, Krishnamurthy Todorov, Emanuel Fazel, Maryam	California Inst. of Tech Univ. of Washington Univ. of Washington
16:00-16:20	TuC04.1	17:00-17:20	TuC05.4
<i>Dissipativity Analysis of SISO Systems Using Nyquist-Plot-Compatible (NPC) Supply Rates</i> , pp. 3970-3975.		<i>State-Space Solution to a Minimum-Entropy H-Infinity Optimal Control Problem with a Nested Information Constraint (I)</i> , pp. 4026-4031.	
Narahari, Santosh Kumar Pal, Debasattam	IIT Guwahati Indian Inst. of Tech. Bombay	Lessard, Laurent	Univ. of California, Berkeley
16:20-16:40	TuC04.2	17:20-17:40	TuC05.5
<i>Some Critical Properties of Sign Inverting Control for LTI Systems with Multiple Delays</i> 92047, pp. 3976-3981.		<i>Stabilizing Decentralized Systems with Arbitrary Information (I)</i> , pp. 4032-4038.	
Gao, Qingbin Kammer, Ayhan Sebastian Zalluhoglu, Umut Olgac, Nejat	Univ. of Connecticut Univ. of Connecticut Univ. of Connecticut Univ. of Connecticut	Alavian, Alborz Rotkowitz, Michael C.	Univ. of Maryland Univ. of Maryland
16:40-17:00	TuC04.3	17:40-18:00	TuC05.6
<i>Safe and Efficient Operation of Centrifugal Compressors Using Linearized MPC</i> , pp. 3982-3987.		<i>An ADMM Algorithm for Optimal Sensor and Actuator Selection (I)</i> , pp. 4039-4044.	
Cordinovis, Andrea Ferreau, Hans Joachim Lewandowski, Daniel Mercangoz, Mehmet	ABB Corp. Res ABB Corp. Res ABB Corp. Res ABB Corp. Res	Dhingra, Neil K Jovanovic, Mihailo Luo, Zhi-Quan	Univ. of Minnesota Univ. of Minnesota Univ. of Minnesota
17:00-17:20	TuC04.4	TuC06	Salon 6
<i>Static Output Feedback of Equivariant Linear Systems with Applications to the Control of Interconnected Agents</i> , pp. 3988-3993.		Electrical Power Systems IV (Regular Session)	
Consolini, Luca	Univ. of Parma	Chair: Kojima, Chiaki Co-Chair: Bitar, Eilyan	Univ. of Tokyo Cornell Univ.
16:00-16:20		<i>Demand Response in Smart Grids: Participants, Challenges, and a Taxonomy (I)</i> , pp. 4045-4052.	TuC06.1

Hansen, Jacob	Aalborg Univ	Shyrokau, Barys	Nanyang Tech. Univ
Knudsen, Jesper	Aalborg Univ	Tanelli, Mara	Pol. Di Milano
Annaswamy, Anuradha	Massachusetts Inst. of Tech	Savitski, Dzmitry	Ilmenay Tech. Univ
16:20-16:40	TuC06.2	Ivanov, Valentin	Ilmenay Tech. Univ
<i>A Characterization of Energy Transfer in Swing Instability of Hierarchical Power Network Based on Mode Decomposition (I), pp. 4053-4058.</i>		Ferrara, Antonella	Univ. of Pavia
Kojima, Chiaki	Univ. of Tokyo	17:00-17:20	TuC07.4
Hirata, Masato	Univ. of Tokyo	<i>Transition Threshold Optimization for a Rule Based Automotive Cruise Control (I), pp. 4101-4106.</i>	
Tsumura, Koji	Univ. of Tokyo	McDonough, Kevin	Univ. of Michigan
16:40-17:00	TuC06.3	D'Amato, Anthony	Ford Motor Company
<i>Characterizing Flexibility of an Aggregation of Deferrable Loads, pp. 4059-4064.</i>		Mullen, Jon	Univ. of Kentucky
Hao, He	Univ. of California at Berkeley	Petersen, Christopher	Univ. of Michigan
Chen, Wei	The Hong Kong Univ. of Science and Tech	Kolmanovsky, Ilya V.	TUniv. of Michigan
17:00-17:20	TuC06.4	Filev, Dimitre P.	Ford Motor Company
<i>Price of Uncertainty in Multistage Stochastic Power Dispatch, pp. 4065-4070.</i>		17:20-17:40	TuC07.5
Qin, Junjie	Stanford Univ	<i>Optimal Control of Connected Vehicle Systems (I), pp. 4107-4112.</i>	
Rajagopal, Ram	Stanford Univ	Ge, Jin	Univ. of Michigan
17:20-17:40	TuC06.5	Orosz, Gabor	Univ. of Michigan
<i>Sinusoidal Signal Estimation from a Noisy-Biased Measurement by an Enhanced PLL with Generalized Error Filtering, pp. 4071-4076.</i>		17:40-18:00	TuC07.6
Pin, Gilberto	Electrolux Professional S.p.A.	Doumiati, Moustapha	Univ. De Tech. De Compiègne
Karimi Ghartemani, Masoud	Mississippi State Univ	Victorino, Alessandro	Univ. De Tech. De Compiègne
Chen, Boli	Imperial Coll. London	Talj, Reine	Heudiasyc, UTC
Parisini, Thomas	Imperial Coll. & Univ. of Trieste	Charara, Ali	Umr Cnrs 6599
17:40-18:00	TuC06.6		
<i>Design of Controllers in the Complex Domain, pp. 4077-4082.</i>		TuC08	Salon 8
Bodson, Marc	Univ. of Utah	Identification for Control (Regular Session)	
TuC07	Salon 7	Chair: Sugimoto, Kenji	Nara Inst. of Science and Tech.
Advances in Vehicle Dynamics Control (Invited Session)		Co-Chair: Chowdhary, Girish	Oklahoma State Univ.
Chair: Mohammadpour, Javad	Univ. of Georgia	16:00-16:20	TuC08.1
Co-Chair: Di Cairano, Stefano	Mitsubishi Electric Res. Lab.	<i>Feedforward Learning Control for MIMO Plant with Finite Zeros: Parameterization of Numerator Polynomial Matrix, pp. 4119-4124.</i>	
Organizer: Onori, Simona	Clemson Univ.	Sugimoto, Kenji	Nara Inst. of Science and Tech
Organizer: Mohammadpour, Javad	Univ. of Georgia	Mateo, Lorlynn Asuncion	Nara Inst. of Science and Tech
Organizer: Di Cairano, Stefano	Mitsubishi Electric Res. Lab.	16:20-16:40	TuC08.2
16:00-16:20	TuC07.1	<i>Applications Oriented Input Design for Closed-Loop System Identification: A Graph-Theory Approach, pp. 4125-4130.</i>	
<i>On Convergence and Robustness of the Extended Cooperative Cruise Control (I), pp. 4083-4088.</i>		Ebadat, Afroz	KTH Royal Inst. of Tech
Montanaro, Umberto	Univ. of Naples Federico II	Valenzuela, Patricio E.	KTH Royal Inst. of Tech
Tufo, Manuela	Univ. Del Sannio	Rojas, Cristian R.	KTH Royal Inst. of Tech
Fiengo, Giovanni	Univ. Del Sannio	Hjalmarsson, Håkan	KTH Royal Inst. of Tech
di Bernardo, Mario	Univ. of Naples Federico II	Wahlberg, Bo	KTH Royal Inst. of Tech
Santini, Stefania	Univ. of Naples Federico II	16:40-17:00	TuC08.3
16:20-16:40	TuC07.2	<i>Concurrent Learning Adaptive Control for Systems with Unknown Sign of Control Effectiveness, pp. 4131-4136.</i>	
<i>Governor-Based Control for Rack-Wheel Coordination in Mechanically Decoupled Steering Systems (I), pp. 4089-4094.</i>		Reish, Benjamin	Oklahoma State Univ
Di Cairano, Stefano	Mitsubishi Electric Res. Lab	Chowdhary, Girish	Oklahoma State Univ
Zafeiropoulos, Spyridon	Georgia Tech	17:00-17:20	TuC08.4
16:40-17:00	TuC07.3	<i>The APA Based Time-Variant System Identification, pp. 4137-4141.</i>	
<i>Hierarchical Control of Overactuated Vehicles Via Sliding Mode Techniques (I), pp. 4095-4100.</i>		Semushin, Innokentiy	Ulyanovsk State Univ
Polesel, Mattia	Univ. of Pavia	17:20-17:40	TuC08.5
		<i>Semi-Receding Horizon Algorithm for "Sufficiently Exciting" MPC with Adaptive Search Step, pp. 4142-4147.</i>	
		Zacekova, Eva	Czech Tech. Univ. in Prague,

Pcolka, Matej Celikovsky, Sergej	Czech Tech. Univ. in Prague Inst. of Information Theory and Automation	TuC10.1
Sebek, Michael	Czech Tech. Univ. in Prague	
17:40-18:00	TuC08.6	
<i>Learning a Nonlinear Controller from Data: Theory and Computation</i> , pp. 4148-4153.		
Fagiano, Lorenzo Novara, Carlo	ABB Switzerland Ltd Pol. Di Torino	
TuC09	Salon 9	
Filtering (Regular Session)		
Chair: Georgiou, Tryphon T. Co-Chair: Monteriù, Andrea	Univ. of Minnesota Univ. Pol. delle Marche	
16:00-16:20	TuC09.1	
<i>Iterative Unscented Statistically Linearized Filter for Nonlinear Gaussian Observation Models</i> , pp. 4154-4159.		
Murata, Masaya Nagano, Hidehisa Kashino, Kunio	NTT Communication Science Lab. NTT Corp NTT Communication Science Lab. NTT Corp NTT Communication Science Lab. NTT Corp	
16:20-16:40	TuC09.2	
<i>Robust Estimation with Faulty Measurements Using Recursive-RANSAC</i> , pp. 4160-4165.		
Niedfeldt, Peter C. Beard, Randal	Brigham Young Univ Brigham Young Univ	
16:40-17:00	TuC09.3	
<i>The Flatness of Power Spectral Zeros and Their Significance in Quadratic Estimation</i> , pp. 4166-4171.		
Chen, Yongxin Georgiou, Tryphon T.	Univ. of Minnesota Univ. of Minnesota	
17:00-17:20	TuC09.4	
<i>A Detection-Estimation Approach to Filtering for Gaussian Systems with Intermittent Observations</i> , pp. 4172-4177.		
Fasano, Antonio Germani, Alfredo Monteriù, Andrea	Univ. Campus Bio-Medico, Roma Univ. Dell'Aquila Univ. Pol. delle Marche	
17:20-17:40	TuC09.5	
<i>Tracking of the UAV Trajectory on the Basis of Bearing-Only Observations</i> , pp. 4178-4184.		
Miller, Alexander Miller, Boris	Inst. for Information Transmission Problems Monash Univ	
17:40-18:00	TuC09.6	
<i>Poisson's Equation in Nonlinear Filtering (I)</i> , pp. 4185-4190.		
Laugesen, Richard S. Mehta, Prashant G. Meyn, Sean P. Raginsky, Maxim	Univ. Illinois, Urbana-Champaign Univ. Illinois, Urbana-Champaign Univ. of Florida Univ. Illinois, Urbana-Champaign	
TuC10	Salon 10	
Stochastic Systems III (Regular Session)		
Chair: Yin, George Co-Chair: Todorov, Marcos	Wayne State Univ. LNCC	
16:00-16:20	TuC10.1	
<i>Best-Response Search Algorithms for Non-Stationary Discrete Stochastic Optimization</i> , pp. 4191-4196.		
Namvar Gharehshiran, Omid Krishnamurthy, Vikram Yin, George	Univ. of British Columbia Univ. of British Columbia Wayne State Univ	
16:20-16:40	TuC10.2	
<i>Sequence-Based LQG Control Over Stochastic Networks with Linear Integral Constraints</i> , pp. 4197-4203.		
Dolgov, Maxim Fischer, Jörg Hanebeck, Uwe D.	Karlsruhe Inst. of Tech. (KIT) Karlsruhe Inst. of Tech. (KIT) Karlsruhe Inst. of Tech. (KIT)	
16:40-17:00	TuC10.3	
<i>Simultaneous Input and State Smoothing for Linear Discrete-Time Stochastic Systems with Unknown Inputs</i> , pp. 4204-4209.		
Yong, Sze Zheng Zhu, Minghui Frazzoli, Emilio	Massachusetts Inst. of Tech Pennsylvania State Univ Massachusetts Inst. of Tech	
17:00-17:20	TuC10.4	
<i>Saliency Based Control in Random Feature Networks</i> , pp. 4210-4215.		
Baillieul, John Kong, Zhaodan	Boston Univ Boston Univ	
17:20-17:40	TuC10.5	
<i>Stochastic Bounded Real Lemma for Switched Stochastic Systems with Average Dwell Time</i> , pp. 4216-4221.		
Ma, Hongji Jia, Yingmin Du, Junping Matsuno, Fumitoshi	Beijing Univ. of Aeronautics and Astronautics Beihang Univ Beijing Univ. of Posts and Telecommunications Kyoto Univ	
17:40-18:00	TuC10.6	
<i>New Methods for Mode-Independent Robust Control of Markov Jump Linear Systems</i> , pp. 4222-4227.		
Todorov, Marcos Fragoso, Marcelo	Lncc Lncc / Mct	
TuC11	Georgia 1	
Optimization Algorithms I (Regular Session)		
Chair: Quijano, Nicanor Co-Chair: Shanbhag, Uday V.	Univ. de los Andes Pennsylvania State Univ.	
16:00-16:20	TuC11.1	
<i>Data-Driven First-Order Methods for Misspecified Convex Optimization Problems: Global Convergence and Rate Estimates</i> , pp. 4228-4233.		
Shanbhag, Uday V. Ahmadi, Hesam	Pennsylvania State Univ Pennsylvania State Univ	
16:20-16:40	TuC11.2	
<i>Douglas-Rachford Splitting: Complexity Estimates and Accelerated Variants</i> , pp. 4234-4239.		
Patrinos, Panagiotis Stella, Lorenzo Bemporad, Alberto	IMT Inst. for Advanced Studies Lucca IMT Inst. for Advanced Studies Lucca IMT Inst. for Advanced Studies Lucca	

16:40-17:00	TuC11.3	Khargonekar, Pramod P.	Univ. of Florida
A Primal-Dual Algorithm for Distributed Optimization, pp. 4240-4245.			
Bianchi, Pascal	Telecom ParisTech - CNRS/LTCI		
Hachem, Walid	Telecom ParisTech - CNRS/LTCI		
17:00-17:20	TuC11.4		
Output Invisible Control Allocation with Steady-State Input Optimization for Weakly Redundant Plants, pp. 4246-4253.			
Cristofaro, Andrea	NTNU		
Galeani, Sergio	Univ. Di Roma Tor Vergata		
17:20-17:40	TuC11.5		
A Proximal Alternating Minimization Method for L0-Regularized Nonlinear Optimization Problems: Application to State Estimation, pp. 4254-4259.			
Patrascu, Andrei - Mihai	Univ. Pol. of Bucharest		
Necoara, Ion	Univ. Pol. of Bucharest		
Patrinos, Panagiotis	IMT Inst. for Advanced Studies Lucca		
17:40-18:00	TuC11.6		
Constrained Distributed Optimization Based on Population Dynamics, pp. 4260-4265.			
Barreiro-Gomez, Julian	Univ. De Los Andes		
Quijano, Nicanor	Univ. De Los Andes		
Ocampo-Martinez, Carlos	Tech. Univ. of Catalonia (UPC)		
TuC12	Georgia 2		
Optimal Control I (Regular Session)			
Chair: Casbeer, David W.	Air Force Res. Lab.		
Co-Chair: Tsiotras, Panagiotis	Georgia Inst. of Tech.		
16:00-16:20	TuC12.1		
An Optimal Evader Strategy in a Two-Pursuer One-Evader Problem, pp. 4266-4271.			
Sun, Wei	Georgia Inst. of Tech		
Tsiotras, Panagiotis	Georgia Inst. of Tech		
16:20-16:40	TuC12.2		
An Asymmetric Version of the Two Car Pursuit-Evasion Game, pp. 4272-4277.			
Exarchos, Ioannis	Georgia Inst. of Tech		
Tsiotras, Panagiotis	Georgia Inst. of Tech		
16:40-17:00	TuC12.3		
Image Reconstruction Via Non-Isotropic Diffusion in Dubins/Reed-Shepp-Like Control Systems, pp. 4278-4283.			
Prandi, Dario	École Pol		
Boscain, Ugo V.	Cnrs		
Gauthier, Jean-Paul	Univ		
Remizov, Alexey	CMAP, École Pol		
17:00-17:20	TuC12.4		
Moving Ground Target Isolation by a UAV Using Predicted Observations, pp. 4284-4289.			
Castbeer, David W.	Air Force Res. Lab		
Kalyanam, Krishnamoorthy	Infoscitex Corp		
Chandler, Phillip R.	Usaf		
Pachter, Meir	AFIT		
17:20-17:40	TuC12.5		
An Engage or Retreat Differential Game with an Escort Region, pp. 4290-4297.			
Fuchs, Zachariah	United States Air Force Res. Lab		
TuC13	Atrium 1		
LMI (Regular Session)			
Chair: Zemouche, Ali	Univ. of Lorraine		
Co-Chair: Lavaei, Javad	Columbia Univ.		
16:00-16:20	TuC13.1		
Semi-Definite Programming and Functional Inequalities for Distributed Parameter Systems, pp. 4304-4309.			
Valmorbida, Giorgio	Univ. of Oxford		
Ahmadi, Mohamadreza	Univ. of Oxford		
Papachristodoulou, Antonis	Univ. of Oxford		
16:20-16:40	TuC13.2		
Input-Output Analysis of Distributed Parameter Systems Using Convex Optimization, pp. 4310-4315.			
Ahmadi, Mohamadreza	Univ. of Oxford		
Valmorbida, Giorgio	Univ. of Oxford		
Papachristodoulou, Antonis	Univ. of Oxford		
16:40-17:00	TuC13.3		
Robust Finite-Time Bounded \mathcal{H}_{∞} Control for a Class of Nonlinear Quadratic Markovian Jump Systems, pp. 4316-4321.			
Jun, Cheng	Univ. of Electronic Science and Tech. of China		
Hong, Zhu	Univ. of Electronic Science and Tech. of China		
Shouming, Zhong	Univ. of Electronic Science and Tech. of China		
Yong, Zeng	Univ. of Electronic Science and Tech. of China		
Zhang, Yuping	Univ. of Electronic Science and Tech. of China		
17:00-17:20	TuC13.4		
A Novel Method for Modelling Cardinality and Rank Constraints, pp. 4322-4327.			
Hempel, Andreas Berndt	Swiss Federal Inst. of Tech. Zurich		
Goulart, Paul J.	ETH Zurich		
17:20-17:40	TuC13.5		
Low-Rank Solutions of Matrix Inequalities with Applications to Polynomial Optimization and Matrix Completion Problems, pp. 4328-4335.			
Madani, Ramtin	Columbia Univ		
Fazelnia, Ghazal	Columbia Univ		
Sojoudi, Somayeh	NYU Langone Medical Center		
Lavaei, Javad	Columbia Univ		
17:40-18:00	TuC13.6		
Robust \mathcal{H}_{∞} Observer-Based Controller for Lipschitz Nonlinear Discrete-Time Systems with Parameter Uncertainties, pp. 4336-4341.			
Kheloufi, Houria	Univ. of Mouloud Mammeri		
Zemouche, Ali	Univ. of Lorraine		

Bedouhene, Fazia Souley Ali, Harouna	Univ. of Mouloud Mammeri Cran Umr 7039 Cnrs		TuC15.2
TuC14 Sampled-Data Control (Regular Session)	Olympic 1		
Chair: Plestan, Franck Co-Chair: Wang, Xiaofeng	Ec. Centrale de Nantes-IRCCyN Univ. of South Carolina		
16:00-16:20	TuC14.1		TuC15.3
<i>Stability Analysis of Asynchronous Sampled-Data Systems with Discrete-Time Constant Input Delay</i> , pp. 4342-4347.			
Seuret, Alexandre Briat, Corentin Gouaisbaut, Frederic	CNRS ETH Zürich Univ. of Toulouse, LAAS CNRS		
16:20-16:40	TuC14.2		TuC15.4
<i>Optimal Anti-Aliasing Filter Based on Multi Criteria Sampled-Data Hinfinity Control</i> , pp. 4348-4354.			
Lennartson, Bengt Middleton, Richard H.	Chalmers Univ. of Tech The Univ. of Newcastle		
16:40-17:00	TuC14.3		TuC15.5
<i>H2 State Feedback Sampled-Data Control for Markov Jump Linear Systems</i> , pp. 4355-4360.			
Vital, Gabriela Werner Gabriel Souza, Matheus Geromel, Jose C.	FEEC - Unicamp FEEC - Unicamp Unicamp		
17:00-17:20	TuC14.4		TuC15.6
<i>Sampling Period Assignment: A Cooperative Design Approach</i> , pp. 4361-4366.			
Moraes, Vitor Mateus Jungers, Marc Moreno, Ubirajara F. Castelan, Eugenio B.	Univ. Federal De Santa Catarina CNRS - Univ. De Lorraine Univ. Federal De Santa Catarina Univ. Federal De Santa Catarina		
17:20-17:40	TuC14.5		TuC16.1
<i>Real-Time Lebesgue-Sampled Model for Continuous-Time Nonlinear Systems</i> , pp. 4367-4372.			
Wang, Xiaofeng Zhang, Bin	Univ. of South Carolina Univ. of South Carolina		
17:40-18:00	TuC14.6		TuC16.2
<i>Discrete-Time Twisting Controller without Numerical Chattering: Analysis and Experimental Results with an Implicit Method</i> , pp. 4373-4378.			
Huber, Olivier Acary, Vincent Brogliato, Bernard Plestan, Franck	Inria INRIA Rhone-Alpes Inria Ec. Centrale De Nantes-IRCCyN		
TuC15 Robust Control (Regular Session)	Atrium 2		
Chair: Smith, Roy S. Co-Chair: Espinosa, Jairo	ETH Zurich Univ. Nacional de Colombia		
16:00-16:20	TuC15.1		TuC16.3
<i>Convex Characterization of Robust Stability Analysis and Control Synthesis for Positive Linear Systems</i> , pp. 4379-4384.			
Colombino, Marcello Smith, Roy S.	ETH Zurich ETH Zurich		
16:20-16:40	TuC15.2		TuC16.4
<i>A Robust Tracking Controller for Dynamically Positioned Surface Vessels with Added Mass</i> , pp. 4385-4390.			
Bidikli, Baris Tatlicioglu, Enver Zergeroglu, Erkan	Izmir Inst. of Tech Izmir Inst. of Tech Gebze Inst. of Tech		
16:40-17:00	TuC15.3		
<i>A Gain Adaptive Variable Structure Control Methodology for Second Order Nonlinear Dynamic Sysems</i> , pp. 4391-4397.			
Jayakody, Hiranya Samanga Katupitiya, Jayantha	Univ. of New South Wales Univ. of New South Wales		
17:00-17:20	TuC15.4		
<i>H-Infinity Filtering for a System with Uncertain Preview Information</i> , pp. 4398-4403.			
Kojima, Akira	Tokyo Metropolitan Univ		
17:20-17:40	TuC15.5		
<i>Asymptotic Rejection of Sinusoidal Disturbances with Recovered Nominal Transient Performance for Uncertain Linear Systems</i> , pp. 4404-4409.			
Park, Gyunghoon Joo, Youngjun Shim, Hyunbo	Seoul National Univ Hanyang Univ Seoul National Univ		
17:40-18:00	TuC15.6		
<i>Min-Max Economic Model Predictive Control</i> , pp. 4410-4415.			
Marquez, Alejandro Patiño, Julian Alberto Espinosa, Jairo	Univ. Nacional De Colombia Univ. Nacional De Colombia Univ. Nacional De Colombia		
TuC16 Model Reduction II (Regular Session)	Olympic 2		
Chair: Wisniewski, Rafal Co-Chair: Hadjicostis, Christoforos	Aalborg Univ. Univ. of Cyprus		
16:00-16:20	TuC16.1		
<i>Irredundant Lattice Piecewise Affine Representations and Their Applications in Explicit Model Predictive Control</i> , pp. 4416-4421.			
Xu, Jun van den Boom, Ton J. J. De Schutter, Bart	China Univ. of Petroleum (Beijing) Delft Univ. of Tech Delft Univ. of Tech		
16:20-16:40	TuC16.2		
<i>Model Reduction of Linear Switched Systems by Restricting Discrete Dynamics</i> , pp. 4422-4427.			
Bastug, Mert Petreczky, Mihaly Wisniewski, Rafal Leth, John	Aalborg Univ. Ec. Des Mines De Douai Ec. Des Mines De Douai Aalborg Univ Aalborg Univ		
16:40-17:00	TuC16.3		
<i>Controller Order Reduction with Pole Region Constraint</i> , pp. 4428-4433.			
Datta, Subashish Chakraborty, Debraj	Tech. Univ. Berlin Indian Inst. of Tech. Bombay		
17:00-17:20	TuC16.4		
<i>Structure-Preserving Model Reduction of Physical Network Systems by Clustering</i> , pp. 4434-4440.			
Monshizadeh, Nima van der Schaft, Arjan J.	Univ. of Groningen Univ. of Groningen		

17:20-17:40	TuC16.5	
<i>Approximation of Markov Processes by Lower Dimensional Processes</i> , pp. 4441-4446.		
Tzortzis, Ioannis Charalambous, Charalambos D. Charalambous, Themistoklis Hadjicostis, Christoforos Johansson, Mikael	Univ. of Cyprus Univ. of Cyprus KTH - Royal Inst. of Tech Univ. of Cyprus KTH - Royal Inst. of Tech	
TuC17	Atrium 3	
Social and Economic Networks (Invited Session)		
Chair: Ajorlou, Amir Co-Chair: Kakhbod, Ali Organizer: Ajorlou, Amir Organizer: Kakhbod, Ali Organizer: Jadbabaie, Ali	Univ. of Pennsylvania Univ. of Michigan Univ. of Pennsylvania MIT Univ. of Pennsylvania	
16:00-16:20	TuC17.1	
<i>An Efficient Curing Policy for Epidemics on Graphs (I)</i> , pp. 4447-4454.		
Drakopoulos, Kimon Ozdaglar, Asu Tsitsiklis, John	Massachusetts Inst. of Tech Massachusetts Inst. of Tech Massachusetts Inst. of Tech	
16:20-16:40	TuC17.2	
<i>Optimal Budget Allocation in Social Networks: Quality or Seeding? (I)</i> , pp. 4455-4460.		
Fazeli, Arastoo Ajorlou, Amir Jadbabaie, Ali	Univ. of Pennsylvania Univ. of Pennsylvania Univ. of Pennsylvania	
16:40-17:00	TuC17.3	
<i>Towards an Algebra for Cascade Effects (I)</i> , pp. 4461-4466.		
Adam, Elie M. Dahleh, Munther A. Ozdaglar, Asu	Massachusetts Inst. of Tech Massachusetts Inst. of Tech Massachusetts Inst. of Tech	
17:00-17:20	TuC17.4	
<i>Blackwell's Approachability in Stackelberg Stochastic Games: A Learning Version (I)</i> , pp. 4467-4472.		
Kalathil, Dileep Borkar, Vivek Jain, Rahul	Univ. of Southern California Indian Inst. of Tech Univ. of Southern California	
17:20-17:40	TuC17.5	
<i>Global Games with Noisy Sharing of Information (I)</i> , pp. 4473-4478.		
Touri, Behrouz Shamma, Jeff S.	Univ. of Colorado Boulder Kaust	
17:40-18:00	TuC17.6	
<i>The Role of a Market Maker in Networked Cournot Competition (I)</i> , pp. 4479-4484.		
Bose, Subhonmesh Cai, Desmond W. H. Low, Steven H. Wierman, Adam	California Inst. of Tech California Inst. of Tech California Inst. of Tech California Inst. of Tech	
TuC18	Olympic 3	
Cooperative Control III (Regular Session)		
Chair: Chen, Zhiyong Co-Chair: Bechlioulis, Charalampous	The Univ. of Newcastle National Tech. Univ. of Athens	
16:00-16:20	TuC18.1	
<i>Finite-Time Average Consensus in Networked Dynamic Systems</i> , pp. 4485-4490.		
Zoghlaoui, Naim Beji, Lotfi Mlayeh, Rhouma Abichou, Azgal	Univ. of Evry Univ. of Evry Pol. School of Tunisia Ec. Pol. De Tunis	
16:20-16:40	TuC18.2	
<i>Synchronization of Nonlinear Heterogeneous Multiple Agents in Diverse Patterns</i> , pp. 4491-4496.		
Chen, Zhiyong	The Univ. of Newcastle	
16:40-17:00	TuC18.3	
<i>Cooperative Receding Horizon Control for Multi-Target Interception in Uncertain Environments</i> , pp. 4497-4502.		
Khosravi, Mohammad Aghdam, Amir G.	Concordia Univ Concordia Univ	
17:00-17:20	TuC18.4	
<i>Joint Synthesis of Dynamic Feed-Forward and Static State Feedback for Platoon Control</i> , pp. 4503-4508.		
Koroglu, Hakan Falcone, Paolo	Chalmers Univ. of Tech Chalmers Univ. of Tech	
17:20-17:40	TuC18.5	
<i>Robust Model-Free Formation Control with Prescribed Performance and Connectivity Maintenance for Nonlinear Multi-Agent Systems</i> , pp. 4509-4514.		
Bechlioulis, Charalampous Kyriakopoulos, Kostas J.	National Tech. Univ. of Athens National Tech. Univ. of Athens	
17:40-18:00	TuC18.6	
<i>Stability Analysis for Replicator Dynamics of Evolutionary Snowdrift Games</i> , pp. 4515-4520.		
Ramazi, Pouria Cao, Ming	Univ. of Groningen Univ. of Groningen	
TuC19	Plaza 1	
Path Following and Tracking (Regular Session)		
Chair: Lee, Seung Hi Co-Chair: Böck, Martin	Hanyang Univ. Vienna Univ. of Tech.	
16:00-16:20	TuC19.1	
<i>Path Following for Formations of Underactuated Marine Vessels under Influence of Constant Ocean Currents</i> , pp. 4521-4528.		
Belleter, Dennis Pettersen, Kristin Y.	NTNU NTNU	
16:20-16:40	TuC19.2	
<i>Manifold Stabilization and Path-Following Control for Flat Systems with Application to a Laboratory Tower Crane</i> , pp. 4529-4535.		
Böck, Martin Kugi, Andreas	Vienna Univ. of Tech Vienna Univ. of Tech	
16:40-17:00	TuC19.3	
<i>Online Approximate Optimal Path-Following for a Mobile Robot</i> , pp. 4536-4541.		
Walters, Patrick Kamalapurkar, Rushikesh Andrews, Lindsey Dixon, Warren E.	Univ. of Florida Univ. of Florida Univ. of Florida Univ. of Florida	
17:00-17:20	TuC19.4	
<i>Reference Redesigned Perfect Tracking Control, with Application to</i>		

Servo Control System, pp. 4542-4547.

Lee, Seung Hi	Hanyang Univ
Chung, Chung Choo	Hanyang Univ

17:20-17:40	TuC19.5
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Improving Tracking Accuracy of a MIMO State Feedback Controller for Elastic Joint Robots, pp. 4548-4553.

Le, Tien Luc	German Aerospace Center (DLR)
Albu-Schaeffer, Alin	German Aerospace Center (DLR)

17:40-18:00	TuC19.6
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A Trajectory Tracking Control Design for a Skid-Steering Mobile Robot by Modulating Its Desired Instantaneous Center of Rotation, pp. 4554-4559.

Jun, Jae Yun	Univ. Pierre Et Marie Curie
Hua, Minh-Duc	Inst. Des Systèmes Intelligent Et De Robotique
Ben Amar, Faiz	Univ. Pierre Et Marie Curie

TuC20	Plaza 2
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Synchronization (Regular Session)

Chair: Sarlette, Alain	Ghent Univ.
Co-Chair: Vaidya, Umesh	Iowa State Univ.

16:00-16:20	TuC20.1
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Stochastic Positive Real Lemma and Synchronization Over Uncertain Networks, pp. 4560-4565.

Diwadkar, Amit	Iowa State Univ
Dasgupta, Sambarta	Iowa State Univ
Vaidya, Umesh	Iowa State Univ

16:20-16:40	TuC20.2
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Low Order Controllers for Output Synchronization of Linear Heterogeneous SISO Agents, pp. 4566-4572.

Khodaverdian, Saman	Tech. Univ. Darmstadt
Adamy, Jürgen	Tech. Univ. Darmstadt

16:40-17:00	TuC20.3
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About Synchronization of Homogeneous Nonlinear Agents Over Switching Networks, pp. 4573-4578.

Casadei, Giacomo	Univ. di Bologna
Marconi, Lorenzo	Univ. di Bologna
Isidori, Alberto	Univ. di Roma

17:00-17:20	TuC20.4
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Synchronization in Complex Network System with Uncertainty, pp. 4579-4584.

Diwadkar, Amit	Iowa State Univ
Vaidya, Umesh	Iowa State Univ

17:20-17:40	TuC20.5
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Synchronization of Kuramoto Oscillators with Non-Identical Natural Frequencies: A Quantum Dynamical Decoupling Approach, pp. 4585-4590.

Zhang, Zhifei	Ghent Univ
Sarlette, Alain	Ghent Univ
Ling, Zhihao	East China Univ. of Science & Tech

17:40-18:00	TuC20.6
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Incremental-Dissipativity-Based Output Synchronization of Dynamical Networks with Switching Topology, pp. 4591-4596.

Liu, Tao	The Univ. of Hong Kong
Hill, David J.	The Univ. of Sydney
Zhao, Jun	Northeastern Univ

TuC21

Biomolecular Systems (Regular Session) Plaza 3

Chair: Hori, Yutaka	California Inst. of Tech.
Co-Chair: Milius-Argeitis, Andreas	ETH Zurich

16:00-16:20	TuC21.1
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On the Reachable Set of the Controlled Gene Expression System, pp. 4597-4604.

Parise, Francesca	ETH Zurich
Valcher, Maria Elena	Univ. di Padova
Lygeros, John	ETH Zurich

16:20-16:40	TuC21.2
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Design of a Molecular Bistable System with RNA-Mediated Regulation, pp. 4605-4610.

Mardaniou, Vahid	Univ. of California at Riverside
Tran, Claire H.	Univ. of California at Riverside
Franco, Elisa	Univ. of California at Riverside

16:40-17:00	TuC21.3
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Design of a Molecular Clock with RNA-Mediated Regulation, pp. 4611-4616.

Blanchini, Franco	Univ. of Udine
Cuba Samaniego, Christian	Univ. of California at Riverside
Franco, Elisa	Univ. of California at Riverside
Giordano, Giulia	Univ. of Udine

17:00-17:20	TuC21.4
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Optimization-Based Lyapunov Function Construction for Continuous-Time Markov Chains with Affine Transition Rates, pp. 4617-4622.

Milius-Argeitis, Andreas	ETH Zurich
Khammash, Mustafa H.	ETH Zurich

17:20-17:40	TuC21.5
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A Subspace Semi-Definite Programming-Based Underestimation (SSDU) Method for Stochastic Global Optimization in Protein Docking, pp. 4623-4628.

Nan, Feng	Boston Univ
Moghadasi, Mohammad	Boston Univ
Vakili, Pirooz	Boston Univ
Vajda, Sandor	Boston Univ
Kozakov, Dima	Boston Univ
Paschalidis, Ioannis Ch.	Boston Univ

17:40-18:00	TuC21.6
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Designing Robustness to Temperature in a Feedforward Loop Circuit, pp. 4629-4634.

Sen, Shaunk	Indian Inst. of Tech. Delhi
Kim, Jongmin	Harvard Univ
Murray, Richard M.	California Inst. of Tech

TuC22

Salon D and E Physics-Based Foundations for Cyber Architecture Design in Complex Electric Energy Systems (Tutorial Session)

Chair: Illic, Marija	Carnegie Mellon Univ.
Co-Chair: Hill, David J.	The Univ. of Sydney
Organizer: Illic, Marija	Carnegie Mellon Univ.
Organizer: Hill, David J.	The Univ. of Sydney

16:00-16:40	TuC22.1
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*Smart Grids As Distributed Learning Control (I)**.

Hill, David J.	The Univ. of Sydney
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16:40-17:20 TuC22.2

Physics-Based Foundations for Cyber and Market Design in Complex Electric Energy Systems (I), pp. 4635-4654.

Ilic, Marija	Carnegie Mellon Univ.
Bachovchin, Kevin	Carnegie Mellon Univ.
Cvetkovic, Milos	Carnegie Mellon Univ.
Miao, Xia	Carnegie Mellon Univ.

17:20-17:35 TuC22.3

Automated Modeling in Standard State Space Form for Complex Electric Power Grids and Automated Nonlinear Storage Control Design for Provable Performance (I).*

Bachovchin, Kevin	Carnegie Mellon Univ.
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17:35-17:50 TuC22.4

Nonlinear Cooperative FACTS Control for Transient Stabilization in Power Systems (I).*

Cvetkovic, Milos	Carnegie Mellon Univ.
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17:50-18:00 TuC22.5

Demonstration of Smart Grid in a Room Simulator and Conclusions (I).*

Ilic, Marija	Carnegie Mellon Univ.
Bachovchin, Kevin	Carnegie Mellon Univ.
Cvetkovic, Milos	Carnegie Mellon Univ.

Technical Program for Wednesday December 17, 2014

WeA01	Salon F	Forte, Francesco Marconi, Lorenzo Teel, Andrew R.	Univ. di Bologna Univ. di Bologna Univ. of California, Santa Barbara
Switched Systems I (Regular Session)			
Chair: Trofino, Alexandre Co-Chair: Wisniewski, Rafal	Federal Univ. of Santa Catarina Aalborg Univ.		
08:30-08:50	WeA01.1		09:30-09:50 WeA02.4
<i>Minimum Switching Limit Cycle Oscillations for Systems of Coupled Double Integrators</i> , pp. 4655-4660.		<i>Minimal Order Controllers for Output Regulation of Locally Stable Nonlinear Systems</i> , pp. 4709-4714.	
Garulli, Andrea Giannitrapani, Antonio Leomanni, Mirko	Univ. Di Siena Univ. Di Siena Univ. Di Siena	Natarajan, Vivek Weiss, George	Tel Aviv Univ Tel Aviv Univ
08:50-09:10	WeA01.2		09:50-10:10 WeA02.5
<i>Dwell-Time Control of Continuous-Time Switched Linear Systems</i> , pp. 4661-4666.		<i>Robust Perturbed Output Regulation and Its Application to Synchronization of Nonlinear Heterogeneous Multi-Agents</i> , pp. 4715-4720.	
Souza, Matheus Fioravanti, Andre R. Shorten, Robert	FEEC - Unicamp Unicamp Nat. Univ. of Ireland	Chen, Xi Chen, Zhiyong Zhang, Hai-Tao	Univ. of Newcastle The Univ. of Newcastle Huazhong (Central China) Univ. of Science and Technology
09:10-09:30	WeA01.3		10:10-10:30 WeA02.6
<i>Switching Rule Design for a Class of Switched Systems with Uncertain Equilibrium</i> , pp. 4667-4672.		<i>A New Controller Structure for Robust Output Regulation</i> , pp. 4721-4726.	
Senger, Guilherme de Aguiar Trofino, Alexandre	Embraco Federal Univ. of Santa Catarina	Paunonen, Lassi Pohjolainen, Seppo	Tampere Univ. of Tech Tampere Univ. of Tech
09:30-09:50	WeA01.4		
<i>Optimal Control of Switched Dynamical Systems under Dwell Time Constraints</i> , pp. 4673-4678.		WeA03	Salon H
Ali, Usman Egerstedt, Magnus	Georgia Inst. of Tech Georgia Inst. of Tech	Chair: Levant, Arie Co-Chair: Fridman, Leonid M.	Tel - Aviv Univ. National Autonomous Univ. of Mexico
09:50-10:10	WeA01.5		
<i>Incremental Stability of Bimodal Filippov Systems in R^n</i> , pp. 4679-4684.		08:30-08:50 WeA03.1	
di Bernardo, Mario Fiore, Davide	Univ. of Bristol Univ. of Naples Federico II	<i>Third Order Sliding Mode Control with Box State Constraints</i> , pp. 4727-4732.	
10:10-10:30	WeA01.6	Ferrara, Antonella Incremona, Gian Paolo Rubagotti, Matteo	Univ. of Pavia Univ. of Pavia Nazarbayev Univ
<i>Robust Stability of Switched Systems</i> , pp. 4685-4690.			08:50-09:10 WeA03.2
Sloth, Christoffer Wisniewski, Rafal	Aalborg Univ Aalborg Univ	<i>Adaptive Sliding Mode Control for a General Nonlinear Multicompartment Lung Model with Input Pressure and Rate Saturation Constraints</i> , pp. 4733-4738.	
WeA02	Salon G	Hou, Saing Paul Meskin, Nader Haddad, Wassim M.	Qatar Univ Qatar Univ Georgia Inst. of Tech
Output Regulation (Regular Session)			09:10-09:30 WeA03.3
Chair: Carnevale, Daniele Co-Chair: Paunonen, Lassi	Univ. di Roma Tampere Univ. of Tech.	<i>Fast Nonsingular Integral Terminal Sliding Mode Control for Nonlinear Dynamical Systems</i> , pp. 4739-4746.	
08:30-08:50	WeA02.1	Li, Peng Ma, Jianjun Zheng, Zhiqiang Geng, Lina	National Univ. of Defense Tech National Univ. of Defense Tech National Univ. of Defense Tech National Univ. of Defense Tech
<i>Hybrid Synthesis for Almost Asymptotic Regulation of Linear Impulsive Systems with Average Dwell Time</i> , pp. 4691-4696.			09:30-09:50 WeA03.4
Yuan, Chengzhi Wu, Fen	North Carolina State Univ North Carolina State Univ	<i>A New LMI Based Sliding Mode Control for the Uncertain Discrete-Time Systems</i> , pp. 4747-4752.	
08:50-09:10	WeA02.2	Argha, Ahmadreza Li, Li Su, Steven W. Nguyen, Hung T.	Univ. of Tech. Sydney Univ. of Tech. Sydney Univ. of Tech. Sydney Univ. of Tech. Sydney
<i>Francis Equations vs Invariant Subspace Algorithm for Hybrid Output Regulation</i> , pp. 4697-4702.			09:50-10:10 WeA03.5
Carnevale, Daniele Galeani, Sergio Sassano, Mario	Univ. di Roma Tor Vergata Univ. di Roma Tor Vergata Univ. di Roma Tor Vergata	<i>Finite-Time Stabilization of Uncertain MIMO Systems</i> , pp. 4753-4758.	
09:10-09:30	WeA02.3	Levant, Arie	Tel - Aviv Univ
<i>Robust Nonlinear Regulation: Continuous-Time Internal Models and Hybrid Identifiers</i> , pp. 4703-4708.			

10:10-10:30	WeA03.6	Salon J
<i>SMC with Linear Dynamic Compensator Design: Performance Margins Approach</i> , pp. 4759-4764.		
Rosales Martínez, José Antonio	National Autonomous Univ. of Mexico	Old Dominion Univ.
Fridman, Leonid M.	National Autonomous Univ. of Mexico	Kyoto Univ.
Shtessel, Yuri B.	Univ. of Alabama at Huntsville	Rutgers Univ
WeA04	Salon I	
Linear Parameter-Varying and Time-Varying Systems (Regular Session)		
Chair: Edwards, Christopher	Univ. of Exeter	Old Dominion Univ
Co-Chair: Seiler, Peter	Univ. of Minnesota	Mercer Univ
08:30-08:50	WeA04.1	WeA05.2
<i>Discretization and Discrete-Time Output Feedback Control of Linear Parameter Varying Continuous-Time Systems</i> , pp. 4765-4771.		
Braga, Marcio F.	Univ. of Campinas - UNICAMP	George Mason Univ
Morais, Cecilia	Univ. of Campinas - UNICAMP	
Tognetti, Eduardo Stockler	Univ. of Brasilia	
Oliveira, Ricardo C. L. F.	Univ. of Campinas - UNICAMP	
Peres, Pedro L. D.	Univ. of Campinas - UNICAMP	
08:50-09:10	WeA04.2	WeA05.3
<i>Stabilization of LPV Positive Systems</i> , pp. 4772-4776.		
Ait Rami, Mustapha	Univ. De Valladolid	Old Dominion Univ
Boulkroune, Boulaid	High Studies in Engineering - HEI	Inst. De Ciencias Matemáticas
El Hajjaji, Ahmed	Univ. of Picardie-Jules Verne	
Pages, Olivier	Univ. of Picardie Jules Verne	
09:10-09:30	WeA04.3	WeA05.4
<i>Sliding Mode Observers for Fault Detection of Uncertain LPV Systems with Imperfect Scheduling Parameter Knowledge</i> , pp. 4777-4782.		
Bharani Chandra, Kumar Pakki	Univ. of Exeter	Kyoto Univ
Alwi, Halim	Univ. of Exeter	Kyoto Univ
Edwards, Christopher	Univ. of Exeter	
09:30-09:50	WeA04.4	WeA05.5
<i>Stochastic Tube MPC for LPV Systems with Probabilistic Set Inclusion Conditions</i> , pp. 4783-4788.		
Fleming, James M.	Univ. of Oxford	Queen's Univ
Cannon, Mark	Univ. of Oxford	Univ. Catholique De Louvain
Kouvaritakis, Basil	Univ. of Oxford	
09:50-10:10	WeA04.5	WeA05.6
<i>Robust Synthesis for Linear Parameter Varying Systems Using Integral Quadratic Constraints (I)</i> , pp. 4789-4794.		
Wang, Shu	Univ. of Minnesota	Queen's Univ
Pfifer, Harald	Univ. of Minnesota	
Seiler, Peter J.	Univ. of Minnesota	
10:10-10:30	WeA04.6	WeA06.1
<i>Stability Criteria for Uncertain Linear Time-Varying Systems</i> , pp. 4795-4800.		
Pandey, Amit	Univ. of California, San Diego	Chalmers Univ. of Tech.
Sehr, Martin Arno	Univ. of California, San Diego	Univ. of California, Davis
de Oliveira, Mauricio C.	Univ. of California, San Diego	
WeA05		
Algebraic and Geometric Methods I (Regular Session)		
Chair: Gray, W. Steven	Old Dominion Univ.	
Co-Chair: Fujimoto, Kenji	Kyoto Univ.	
08:30-08:50	WeA05.1	
<i>A Regularity Theorem for Minimizers of Real-Analytic Subriemannian Metrics</i> , pp. 4801-4806.		
Sussmann, Hector J.	Rutgers Univ	
08:50-09:10	WeA05.2	
<i>Pre-Lie Algebra Characterization of SISO Feedback Invariants</i> , pp. 4807-4813.		
Gray, W. Steven	Old Dominion Univ	
Thitsa, Maklin	Mercer Univ	
Duffaut Espinosa, Luis Augusto	George Mason Univ	
09:10-09:30	WeA05.3	
<i>Dendriform-Tree Setting for Fully Non-Commutative Fliess Operators</i> , pp. 4814-4819.		
Duffaut Espinosa, Luis Augusto	George Mason Univ	
Gray, W. Steven	Old Dominion Univ	
Ebrahimi-Fard, Kurusch	Inst. De Ciencias Matemáticas	
09:30-09:50	WeA05.4	
<i>On Trajectory Tracking Control of Port-Hamiltonian Systems with Quaternions</i> , pp. 4820-4825.		
Fujimoto, Kenji	Kyoto Univ	
Nishiyama, Taishi	Kyoto Univ	
09:50-10:10	WeA05.5	
<i>L2-Stability for a Class of Nonlinear Systems Via Potential-Based Realizations</i> , pp. 4826-4831.		
Guay, Martin	Queen's Univ	
Hudon, Nicolas	Univ. Catholique De Louvain	
10:10-10:30	WeA05.6	
<i>Tautological Control Systems</i> , pp. 4832-4837.		
Lewis, Andrew D.	Queen's Univ	
WeA06	Salon 6	
Energy Systems and Model Predictive Control (Regular Session)		
Chair: Gros, Sébastien	Chalmers Univ. of Tech.	
Co-Chair: El-Farra, Nael H.	Univ. of California, Davis	
08:30-08:50	WeA06.1	
<i>Energy Management for the Chlor-Alkali Process with Hybrid Renewable Energy Generation Using Receding Horizon Optimization</i> , pp. 4838-4843.		
Wang, Xiaonan	Univ. of California, Davis	
Tong, Chudong	Univ. of California, Davis	
Palazoglu, Ahmet N.	Univ. of California, Davis	
El-Farra, Nael H.	Univ. of California, Davis	
08:50-09:10	WeA06.2	
<i>A Distributed Algorithm for NMPC-Based Wind Farm Control</i> , pp. 4844-4849.		
Gros, Sébastien	Chalmers Univ. of Tech	
09:10-09:30	WeA06.3	
<i>Decentralized Model Predictive Control of Thermostatically Controlled Appliances for Providing Load Balancing Service</i> , pp. 4850-4855.		
Shi, Yang	Univ. of Victoria	
Liu, Mingxi	Univ. of Victoria	

09:30-09:50	WeA06.4	Fraccaroli, Francesco Susto, Gian Antonio	Univ. di Padova Univ. di Padova
<i>Explicit MPC Approach to PMV-Based Thermal Comfort Control</i> , pp. 4856-4861.			
Klaucov, Martin Kvasnica, Michal	Slovak Univ. of Tech. in Bratislava Slovak Univ. of Tech. in Bratislava		
09:50-10:10	WeA06.5		
<i>Receding Horizon Control for Demand-Response Operation of Building Heating Systems</i> , pp. 4862-4867.			
Bianchini, Gianni Casini, Marco Vicino, Antonio Zarrilli, Donato	Univ. Di Siena Univ. Di Siena Univ. Di Siena Univ. Di Siena		Pol. Di Milano Pol. Di Milano Pol. Di Milano
10:10-10:30	WeA06.6		
<i>Utility Learning Model Predictive Control for Personal Electric Loads</i> , pp. 4868-4874.			
Yang, Insoon Zeilinger, Melanie N. Tomlin, Claire J.	Univ. of California, Berkeley Univ. of California, Berkeley Univ. of California, Berkeley		
WeA07	Salon 7		
Emerging Control Applications I (Regular Session)			
Chair: Maestre, J.M. Co-Chair: Fagiano, Lorenzo	Univ. of Seville ABB Switzerland Ltd.		
08:30-08:50	WeA07.1		
<i>Social Network Ad Allocation Via Hyperbolic Embedding</i> , pp. 4875-4880.			
Gao, Peixin Miao, Hui Baras, John S.	Univ. of Maryland Univ. of Maryland Univ. of Maryland		
08:50-09:10	WeA07.2		
<i>Human in the Loop Model Predictive Control: An Irrigation Canal Case Study</i> , pp. 4881-4886.			
Maestre, J.M. van Overloop, Peter-Jules Hashemy, S. Mehdy Sadowska, Anna Camacho, Eduardo F.	Univ. of Seville Delft Univ. of Tech Univ. of Tehran Delft Univ. of Tech Univ. of Seville		
09:10-09:30	WeA07.3		
<i>Production Lead Time in Exponential Serial Lines: Analysis and Control</i> , pp. 4887-4892.			
Meerkov, Semyon M. Yan, Chao-Bo	Univ. of Michigan Univ. of Michigan		
09:30-09:50	WeA07.4		
<i>Active Pitch Control of Tethered Wings for Airborne Wind Energy</i> , pp. 4893-4898.			
Galletti, Bernardo Buffoni, Marcelo Ferreau, Hans Joachim Fagiano, Lorenzo Mercangoz, Mehmet	ABB Switzerland Ltd. - Corp. Res ABB Switzerland Ltd. - Corp. Res ABB Corp. Res ABB Switzerland Ltd ABB Corp. Res		
09:50-10:10	WeA07.5		
<i>A Machine Learning Based Approach for Gesture Recognition from Inertial Measurements</i> , pp. 4899-4904.			
Belgioioso, Giuseppe Cenedese, Angelo Cirillo, Giuseppe Ilario	Univ. di Padova Univ. di Padova Univ. di Padova		Tech. Univ. of Catalonia (UPC) Supelec
10:10-10:30	WeA07.6		
<i>Optimal Building Climate Control: A Solution Based on Nested Dynamic Programming and Randomized Optimization</i> , pp. 4905-4910.			
Deori, Luca Giulioni, Luca Prandini, Maria			
WeA08	Salon 8		
Machine Learning (Regular Session)			
Chair: Surana, Amit Co-Chair: Bloem, Michael	United Tech. Res. Center NASA Ames Res. Center		
08:30-08:50	WeA08.1		
<i>Infinite Time Horizon Maximum Causal Entropy Inverse Reinforcement Learning</i> , pp. 4911-4916.			
Bloem, Michael Bambos, Nicholas	NASA Ames Res. Center Stanford Univ		
08:50-09:10	WeA08.2		
<i>Distributed Charging Control of Electric Vehicles Using Regret Minimization</i> , pp. 4917-4923.			
Ma, Wann-Jiun Gupta, Vijay Topcu, Ufuk	Univ. of Notre Dame Univ. of Notre Dame Univ. of Pennsylvania		
09:10-09:30	WeA08.3		
<i>Lipschitz Robust Control from Off-Policy Trajectories (I)</i> , pp. 4924-4931.			
Fonteneau, Raphael Ernst, Damien Boigelot, Bernard Louveaux, Quentin	Univ. of Liège Univ. of Liège Univ. of Liège Univ. of Liège		
09:30-09:50	WeA08.4		
<i>Increasing Performance of Parametrizations for Linear MPC Via Application of a Data Mining Algorithm</i> , pp. 4932-4937.			
Goebel, Gregor Allgöwer, Frank	Univ. of Stuttgart Univ. of Stuttgart		
09:50-10:10	WeA08.5		
<i>Unsupervised Inverse Reinforcement Learning with Noisy Data</i> , pp. 4938-4945.			
Surana, Amit	United Tech. Res. Center		
10:10-10:30	WeA08.6		
<i>Using Higher Dimensionalities to Identify Abnormal Behavior in Noisy Data Sets</i> , pp. 4946-4952.			
Olsen, David Allen	Univ. of Minnesota		
WeA09	Salon 9		
Fault Tolerant Systems (Regular Session)			
Chair: Cristofaro, Andrea Co-Chair: Serrani, Andrea	NTNU The Ohio State Univ.		
08:30-08:50	WeA09.1		
<i>Sensor-Fault Tolerance Using Robust MPC with Set-Based State Estimation and Active Fault Isolation</i> , pp. 4953-4958.			
Xu, Feng Olaru, Sorin	Tech. Univ. of Catalonia (UPC) Supelec		

Puig, Vicenc	Tech. Univ. of Catalonia (UPC)	WeA10.3
Ocampo-Martinez, Carlos	Tech. Univ. of Catalonia (UPC)	
Niculescu, Silviu-Iulian	CNRS-Supelec	
08:50-09:10	WeA09.2	
<i>Robust MPC for Actuator-Fault Tolerance Using Set-Based Passive Fault Detection and Active Fault Isolation</i> , pp. 4959-4964.		
Xu, Feng	Tech. Univ. of Catalonia (UPC)	
Puig, Vicenc	Upc	
Ocampo-Martinez, Carlos	Tech. Univ. of Catalonia (UPC)	
Olaru, Sorin	Supelec	
Niculescu, Silviu-Iulian	CNRS-Supelec	
09:10-09:30	WeA09.3	
<i>Multiple-Model Control for Spacecraft under Actuation Sign Errors</i> , pp. 4965-4970.		
Ma, Yajie	Nanjing Univ. of Aeronautics and Astronautics	
Jiang, Bin	Nanjing Univ. of Aeronautics & Astronautics	
Tao, Gang	Univ. of Virginia	
Liu, Hugh Hong-Tao	Univ. of Toronto	
09:30-09:50	WeA09.4	
<i>Fault-Tolerant Control Allocation with Actuator Dynamics: Finite-Time Control Reconfiguration</i> , pp. 4971-4976.		
Cristofaro, Andrea	NTNU	
Johansen, Tor Arne	NTNU	
09:50-10:10	WeA09.5	
<i>Fault Diagnosis and Control-Reconfiguration in Large-Scale Systems: A Plug-And-Play Approach</i> , pp. 4977-4982.		
Riverso, Stefano	Univ. di Pavia	
Boem, Francesca	Univ. of Trieste	
Ferrari-Trecate, Giancarlo	Univ. di Pavia	
Parisini, Thomas	Imperial Coll. & Univ. of Trieste	
10:10-10:30	WeA09.6	
<i>Control Allocation Based Fault-Tolerant Control Design for Spacecraft Attitude Tracking</i> , pp. 4983-4988.		
Shen, Qiang	Nanyang Tech. Univ	
Wang, Danwei	Nanyang Tech. Univ	
Zhu, Sen Qiang	Nanyang Tech. Univ	
Poh, Eng Kee	Nanyang Tech. Univ	
WeA10	Salon 10	
Kalman Filtering (Regular Session)		
Chair: Zurakowski, Ryan	Univ. of Delaware	
Co-Chair: Hexner, Gyorgy	RAFAEL, Haifa ISRAEL	
08:30-08:50	WeA10.1	
<i>Steady State Kalman Filter Behavior for Unstabilizable Systems</i> , pp. 4989-4994.		
Dasgupta, Soura	Univ. of Iowa	
Brown, Donald	Wpi	
Wang, Rui	Wpi	
08:50-09:10	WeA10.2	
<i>Quadratic Filtering for Non-Gaussian and Not Asymptotically Stable Linear Discrete-Time Systems</i> , pp. 4995-5000.		
Cacace, Filippo	Univ. Campus Biomedico Di Roma	
Conte, Francesco	Univ. di Genova	
Germani, Alfredo	Univ. Dell'Aquila	
Palombo, Giovanni	Univ. Dell'Aquila	
09:10-09:30	WeA10.3	
<i>Estimation of Mobile Vehicle Range & Position Using the Tobit Kalman Filter</i> , pp. 5001-5007.		
Miller, Cory	Univ. of Delaware	
Allik, Bethany	Univ. of Deleware	
Piovoso, Michael J.	Penn State Great Valley School	
Zurakowski, Ryan	Univ. of Delaware	
09:30-09:50	WeA10.4	
<i>An Extended Kalman Filter with a Computed Mean Square Error Bound</i> , pp. 5008-5014.		
Hexner, Gyorgy	RAFAEL, Haifa ISRAEL	
Weiss, Haim M.	RAFAEL, Haifa ISRAEL	
09:50-10:10	WeA10.5	
<i>State Estimation of Vehicle's Lateral Dynamics Using Unscented Kalman Filter</i> , pp. 5015-5020.		
Wielitzka, Mark	Leibniz Univ. Hannover	
Dagen, Matthias	Leibniz Univ. Hannover	
Ortmaier, Tobias	Leibniz Univ. Hannover	
10:10-10:30	WeA10.6	
<i>A Linear Extension of Unscented Kalman Filter to Higher-Order Moment-Matching</i> , pp. 5021-5026.		
Liu, Jiang	Chongqing Inst. of Green and Intelligent Tech. Chinese	
Wang, YuJin	Chongqing Univ. of Posts and Telecommunications	
Zhang, Ju	Chinese Acad. of Sciences	
WeA11		
Optimization Algorithms II (Regular Session)		
Chair: Mohajerin Esfahani, Peyman	ETH Zurich	
Co-Chair: Giselsson, Pontus	Lund Univ.	
08:30-08:50	WeA11.1	
<i>Electric Vehicles Aggregator Optimization: A Fast and Solver-Free Solution Method</i> , pp. 5027-5032.		
Vujanic, Robin	ETH Zurich, Switzerland	
Mohajerin Esfahani, Peyman	ETH Zurich	
Goulart, Paul J.	ETH Zurich	
Morari, Manfred	ETH Zurich	
08:50-09:10	WeA11.2	
<i>Diagonal Scaling in Douglas-Rachford Splitting and ADMM</i> , pp. 5033-5039.		
Giselsson, Pontus	Lund Univ	
Boyd, Stephen P.	Stanford Univ	
09:10-09:30	WeA11.3	
<i>Preconditioning in Fast Dual Gradient Methods</i> , pp. 5040-5045.		
Giselsson, Pontus	Lund Univ	
Boyd, Stephen P.	Stanford Univ	
09:30-09:50	WeA11.4	
<i>Linear Convergence Rate for Distributed Optimization with the Alternating Direction Method of Multipliers</i> , pp. 5046-5051.		
Iutzeler, Franck	Supelec	
Bianchi, Pascal	Telecom ParisTech - CNRS/LTCI	
Ciblat, Philippe	Telecom ParisTech	
Hachem, Walid	CNRS LTCI; Telecom ParisTech	

09:50-10:10	WeA11.5	Colombino, Marcello Grammatico, Sergio Lygeros, John	ETH Zurich ETH Zurich ETH Zurich
<i>A Parametric Multi-Convex Splitting Technique with Application to Real-Time NMPC, pp. 5052-5057.</i>			
Hours, Jean-Hubert Jones, Colin N.	École Pol. Fédérale De Lausanne École Pol. Fédérale De Lausanne		
10:10-10:30	WeA11.6		
<i>Monotonicity and Restart in Fast Gradient Methods, pp. 5058-5063.</i>			
Giselsson, Pontus Boyd, Stephen P.	Lund Univ Stanford Univ	Madjidian, Daria Mirkin, Leonid Rantzer, Anders	Lund Univ Technion, Haifa Lund Univ
WeA12	Georgia 2		
Optimal Control II (Regular Session)			
Chair: Kamalapurkar, Rushikesh Co-Chair: Hashimoto, Tomoaki	Univ. of Florida Osaka Univ.		
08:30-08:50	WeA12.1		
<i>Control-Theoretic Data Smoothing, pp. 5064-5070.</i>			
Dey, Biswadip Krishnaprasad, P. S.	Univ. of Maryland Univ. of Maryland	Qi, Ji Li, Jr-Shin	Washington Univ. in St. Louis Washington Univ. in St. Louis
08:50-09:10	WeA12.2		
<i>Linear Quadratic Optimal Control for Systems with Continuous and Impulsive Inputs, pp. 5071-5076.</i>			
Sobiesiak, Ludwik Andrew Damaren, Chris J.	Univ. of Toronto Univ. of Toronto	Siami, Milad Motee, Nader	Lehigh Univ Lehigh Univ
09:10-09:30	WeA12.3		
<i>Data-Driven Optimal Stabilization for Discrete-Time Nonlinear Systems by Approximate Value Iteration, pp. 5077-5082.</i>			
Li, Yongqiang Hou, Zhongsheng	Zhejiang Univ. of Tech Beijing Jiaotong Univ	Nilsson, Gustav Como, Giacomo Lovisari, Enrico	Lund Univ Lund Univ Lund Univ
09:30-09:50	WeA12.4		
<i>Model-Based Reinforcement Learning for Infinite-Horizon Approximate Optimal Tracking, pp. 5083-5088.</i>			
Kamalapurkar, Rushikesh Andrews, Lindsey Walters, Patrick Dixon, Warren E.	Univ. of Florida Univ. of Florida Univ. of Florida Univ. of Florida	Meissen, Chris Lessard, Laurent Arcak, Murat Packard, Andrew K.	Univ. of California, Berkeley Univ. of California, Berkeley Univ. of California, Berkeley Univ. of California, Berkeley
09:50-10:10	WeA12.5		
<i>Receding Horizon Control for a Class of Discrete-Time Nonlinear Implicit Systems, pp. 5089-5094.</i>			
Hashimoto, Tomoaki	Osaka Univ		
10:10-10:30	WeA12.6		
<i>Adaptive Dynamic Programming for Terminaly Constrained Finite-Horizon Optimal Control Problems, pp. 5095-5100.</i>			
Andrews, Lindsey Klotz, Justin Kamalapurkar, Rushikesh Dixon, Warren E.	Univ. of Florida Univ. of Florida Univ. of Florida Univ. of Florida	Mahulea, Cristian Kloetzer, Marius	Univ. of Zaragoza Tech. Univ. "Gheorghe Asachi" of Iasi
WeA13	Atrium 1		
Large-Scale Systems (Regular Session)			
Chair: Li, Jr-Shin Co-Chair: Motee, Nader	Washington Univ. in St. Louis Lehigh Univ.		
08:30-08:50	WeA13.1		
<i>Mean Field Constrained Charging Policy for Large Populations of Plug-In Electric Vehicles, pp. 5101-5106.</i>			
Parise, Francesca	ETH Zurich	Shang, Ying Hardouin, Laurent Lhommeau, Mehdi Maia, Carlos Andrey	Southern Illinois Univ. Edwardsville Univ. of Angers Univ. of Angers Univ. Federal De Minas Gerais
WeA14	Olympic 1		
Discrete-Event Systems and Supervisory Control (Regular Session)			
Chair: Mahulea, Cristian Co-Chair: Komenda, Jan	Univ. of Zaragoza Czech Acad. of Sciences		
08:30-08:50	WeA14.1		
<i>Planning Mobile Robots with Boolean-Based Specifications, pp. 5137-5142.</i>			
Mahulea, Cristian Kloetzer, Marius	Univ. of Zaragoza Tech. Univ. "Gheorghe Asachi" of Iasi		
08:50-09:10	WeA14.2		
<i>An Integrated Control Strategy in Disturbance Decoupling of Max-Plus Linear Systems with Applications to a High Throughput Screening System in Drug Discovery, pp. 5143-5148.</i>			
Shang, Ying Hardouin, Laurent Lhommeau, Mehdi Maia, Carlos Andrey	Southern Illinois Univ. Edwardsville Univ. of Angers Univ. of Angers Univ. Federal De Minas Gerais		
09:10-09:30	WeA14.3		
<i>Decentralized Supervisory Control with Communicating Supervisors Based on Top-Down Coordination Control, pp. 5149-5155.</i>			
Komenda, Jan	Czech Acad. of Sciences		

Masopust, Tomas	Acad. of Sciences of the Czech Republic	WeA15.6
09:30-09:50	WeA14.4	
<i>Synthesis of Maximally Permissive Non-Blocking Supervisors for Partially Observed Discrete Event Systems</i> , pp. 5156-5162.		
Yin, Xiang	Univ. of Michigan	Stanford Univ
Lafortune, Stephane	Univ. of Michigan	Stanford Univ
09:50-10:10	WeA14.5	
<i>Optimality in the Control of Gene Regulatory Networks</i> , pp. 5163-5170.		
Baldissera, Fabio L.	Federal Univ. of Santa Catarina	AFOSR
Cury, Jose E. R.	Federal Univ. of Santa Catarina	Univ. of Waterloo
10:10-10:30	WeA14.6	
<i>Rapid Learning in Sequential Composition Control</i> , pp. 5171-5176.		
Najafi, Esmaeil	Delft Univ. of Tech. Univ. of Tehran	AFOSR
Lopes, Gabriel	Delft Univ. of Tech	Univ. of Cagliari
Nageshrao, Subramanya	Delft Univ. of Tech	Cicese
Babuska, R.	Delft Univ. of Tech	The Ohio State Univ
WeA15	Atrium 2	
Randomized Algorithms (Regular Session)		
Chair: Dabbene, Fabrizio	CNR-IEIIT	
Co-Chair: Parisio, Alessandra	Royal Inst. of Tech. (KTH)	
08:30-08:50	WeA15.1	
<i>Uniform Sample Generation in Semialgebraic Sets</i> , pp. 5177-5182.		
Dabbene, Fabrizio	Cnr-leit	
Henrion, Didier	Laas-Cnrs	
Lagoa, Constantino M.	Pennsylvania State Univ	
08:50-09:10	WeA15.2	
<i>Beyond Monte Carlo for the Initial Uncertainty Propagation Problem</i> , pp. 5183-5188.		
Yang, Chao	Univ. of Florida	
Kumar, Mrinal	Univ. of Florida	
09:10-09:30	WeA15.3	
<i>Randomized Algorithm for Estimation of Moving Point Position Using Single Camera</i> , pp. 5189-5194.		
Krivokon, Dmitry	Saint-Petersburg State Univ	
Vakhitov, Alexander	Saint Petersburg State Univ	
09:30-09:50	WeA15.4	
<i>Randomized Solution for Robust Optimal Power Flow</i> , pp. 5195-5200.		
Wada, Takayuki	Osaka Univ	
Morita, Ryosuke	Aoyama Gakuin Univ	
Asai, Toru	Osaka Univ	
Masubuchi, Izumi	Kobe Univ	
Fujisaki, Yasumasa	Osaka Univ	
09:50-10:10	WeA15.5	
<i>Control of HVAC Systems Via Scenario-Based Explicit MPC</i> , pp. 5201-5207.		
Parisio, Alessandra	Royal Inst. of Tech. (KTH)	
Fabietti, Luca	Royal Inst. of Tech. (KTH)	
Molinari, Marco	Royal Inst. of Tech. (KTH)	
Varagnolo, Damiano	LTU Luleå Univ. of Tech	
Johansson, Karl Henrik	Royal Inst. of Tech. (KTH)	
WeA16	Olympic 2	
Control of Diffusion Processes (Invited Session)		
Chair: Fahroo, Fariba	AFOSR	
Co-Chair: Morris, Kirsten	Univ. of Waterloo	
Organizer: Fahroo, Fariba	AFOSR	
Organizer: Morris, Kirsten	Univ. of Waterloo	
08:30-08:50	WeA16.1	
<i>Disturbance Attenuation in Nonlinear Perturbed Diffusion Processes by Sampled-In-Space Sensing and Actuation (I)</i> , pp. 5216-5221.		
Pisano, Alessandro	Univ. of Cagliari	
Orlov, Yury	Cicese	
Utkin, Vadim I.	The Ohio State Univ	
08:50-09:10	WeA16.2	
<i>On the Boundary Control of Coupled Reaction-Diffusion Equations Having the Same Diffusivity Parameters (I)</i> , pp. 5222-5228.		
Pisano, Alessandro	Univ. of Cagliari	
Orlov, Yury	Cicese	
Baccoli, Antonello	Univ. of Cagliari	
09:10-09:30	WeA16.3	
<i>Optimization of Spatially Distributed Systems with Spatially Local Controllers and Partial Connectivity (I)</i> , pp. 5229-5235.		
Demetriou, Michael A.	Worcester Pol. Inst	
09:30-09:50	WeA16.4	
<i>Backstepping-Forwarding Control of Parabolic PDEs with Partially Separable Kernels (I)</i> , pp. 5236-5241.		
Tsubakino, Daisuke	Hokkaido Univ	
Bribiesca Argomedo, Federico	Univ. of California, San Diego	
Krstic, Miroslav	Univ. of California, San Diego	
09:50-10:10	WeA16.5	
<i>Homogenization in Reaction-Diffusion PDEs under Space and Time-Dependent Heterogeneities</i> , pp. 5242-5247.		
Shafi, S. Yusef	Nest	
Bai, He	UtopiaCompression	
10:10-10:30	WeA16.6	
<i>Networked Controller Design and Analysis for Uncertain Distributed Processes with Measurement and Actuation Errors (I)</i> , pp. 5248-5253.		
Yao, Zhiyuan	Univ. of California, Davis	
EI-Farra, Nael H.	Univ. of California, Davis	
WeA17	Atrium 3	
Networked Control Systems I (Regular Session)		
Chair: Postoyan, Romain	CNRS-CRAN	
Co-Chair: Andersson, Sean	Boston Univ.	
08:30-08:50	WeA17.1	
<i>On Resilient Control of Nonlinear Systems under Denial-Of-Service</i> , pp. 5254-5259.		
De Persis, Claudio	Univ. of Groningen	
Tesi, Pietro	Univ. of Groningen	

08:50-09:10	WeA17.2	Caviglione, Luca	Univ. of Genoa
<i>Preservation of System Properties for Networked Linear, Time-Invariant Control Systems in the Presence of Switching Delays</i> , pp. 5260-5265.			
Yu, Xi	Boston Univ		
Andersson, Sean	Boston Univ		
09:10-09:30	WeA17.3	Paganini, Fernando	Univ. ORT, Uruguay
<i>Formal Methods for Stability Analysis of Networked Control Systems with IEEE 802.15.4 Protocol</i> , pp. 5266-5271.		Ferragut, Andres	Univ. ORT, Uruguay
Wu, Bo	Univ. of Notre Dame		
Lin, Hai	Univ. of Notre Dame		
Lemmon, Michael	Univ. of Notre Dame		
09:30-09:50	WeA17.4	Dürango, Jonas	Lund Univ
<i>Emulated Controller Design for Networked Control Systems Implemented on FlexRay</i> , pp. 5272-5277.		Dellkrantz, Manfred	Lund Univ
Wang, Wei	Univ. of Melbourne	Maggio, Martina	Lund Univ
Nesic, Dragan	Univ. of Melbourne	Klein, Cristian	Umeå Univ
Postoyan, Romain	Cnrs-Cran	Papadopoulos, Alessandro V.	Lund Univ
09:50-10:10	WeA17.5	Hernández-Rodriguez, Francisco	Umeå Univ
<i>An Improved Stability Criterion of Networked Control Systems with Dynamic Controllers in the Feedback Loop</i> , pp. 5278-5283.		Elmroth, Erik	Umeå Univ
Cavalcanti Vilela, João Vitor	Univ. of Brasilia	Arzen, Karl-Erik	Lund Univ
Figueiredo, Luis Felipe da Cruz	Univ. of Brasilia		
Ishihara, Joao Yoshiyuki	Univ. of Brasilia		
Borges, Geovany A.	Univ. of Brasilia		
10:10-10:30	WeA17.6		
<i>A Jump Filter for Uncertain Dynamic Systems with Dropouts (I)</i> , pp. 5284-5289.			
Dolz, Daniel	Univ. Jaume I		
Quevedo, Daniel E.	The Univ. of Newcastle		
Peñarrocha, Ignacio	Univ. Jaume I		
Sanchis, Roberto	Univ. Jaume I		
WeA18	Olympic 3		
Computer Networks (Regular Session)			
Chair: La, Richard J.	Univ. of Maryland, Coll. Park		
Co-Chair: Gaggero, Mauro	National Res. Council of Italy		
08:30-08:50	WeA18.1		
<i>Role of Network Topology in Cybersecurity</i> , pp. 5290-5295.			
La, Richard J.	Univ. of Maryland, Coll. Park		
08:50-09:10	WeA18.2		
<i>A Linear Consensus Approach to Quality-Fair Video Delivery</i> , pp. 5296-5301.			
Dal Col, Laura	LAAS-CNRS	Zhang, Feitian	Michigan State Univ
Tarbouriech, Sophie	LAAS-CNRS	Tan, Xiaobo	Michigan State Univ
Zaccarian, Luca	LAAS-CNRS and Univ. of Trento		
Kieffer, Michel	CNRS-Supelec		
09:10-09:30	WeA18.3		
<i>Hybrid Control of a Three-Node Network Cluster</i> , pp. 5302-5307.			
Albea, Carolina	LAAS CNRS	D'Alfonso, Luigi	Univ. della Calabria
Seuret, Alexandre	Cnrs	Grano, Antonio	Univ. della Calabria
Zaccarian, Luca	LAAS-CNRS and Univ. of Trento	Muraca, Pietro Maria	Univ. della Calabria
09:30-09:50	WeA18.4	Pugliese, Paolo	Univ. della Calabria
<i>A Predictive Control Approach for Energy-Aware Consolidation of Virtual Machines in Cloud Computing</i> , pp. 5308-5313.			
Gaggero, Mauro	National Res. Council of Italy		
		Ferri, Gabriele	NATO Centre for Maritime Res. and Experimentation
		Munafo, Andrea	NATO Centre for Maritime Res. and Experimentation
		Goldhahn, Ryan	NATO Centre for Maritime Res. and Experimentation
		LePage, Kevin	NATO Centre for Maritime Res. and Experimentation

10:10-10:30	WeA19.6	Organizer: Murray, Richard M.	California Inst. of Tech.
<i>NUROA: A Numerical Roadmap Algorithm</i> , pp. 5359-5366.		Organizer: Del Vecchio, Domitilla	Massachusetts Inst. of Tech.
Iraji, Reza	Colorado State Univ		
Chitsaz, Hamidreza	Colorado State Univ		
WeA20	Plaza 2		
Agents and Autonomous Systems I (Regular Session)			
Chair: Yucelen, Tansel	Missouri Univ. of Science and Tech.	Yeung, Enoch	California Inst. of Tech
Co-Chair: Bakolas, Efstathios	The Univ. of Texas at Austin	Ng, Andrew	Washington Univ. in St. Louis
08:30-08:50	WeA20.1	Kim, Jongmin	Harvard Univ
<i>Resilient Networked Multiagent Systems: A Distributed Adaptive Control Approach</i> , pp. 5367-5372.		Sun, Zachary Z.	California Inst. of Tech.
De La Torre, Gerardo	Georgia Inst. of Tech	Murray, Richard M.	California Inst. of Tech
Yucelen, Tansel	Missouri Univ. of Science and Tech		
Peterson, John Daniel	Missouri Univ. of Science and Tech		
08:50-09:10	WeA20.2		
<i>Algorithmic Approaches to Artistic Movement</i> , pp. 5373-5380.			
Ozcimder, Kayhan	Boston Univ	Rufino Ferreira, Ana Sofia	Univ. of California, Berkeley
Kong, Zhaodan	Boston Univ	Hsia, Justin	Univ. of California, Berkeley
Bailleul, John	Boston Univ	Arcak, Murat	Univ. of California, Berkeley
09:10-09:30	WeA20.3	Maharbiz, Michel	Univ. of California, Berkeley
<i>Set Input-To-State Stability for Spatially Interacting Multi-Agent Systems</i> , pp. 5381-5386.		Arkin, Adam	Univ. of California, Berkeley
Gasperri, Andrea	Univ. Di Roma Tre		
Williams, Ryan	Univ. of Southern California		
Leccece, Antonio	Univ. Di Roma Tre		
Ulivi, Giovanni	Univ. Di Roma Tre		
09:30-09:50	WeA20.4		
<i>Bearing Angle Based Cooperative Source Localization</i> , pp. 5387-5392.			
Lin, Che	Zhejiang Univ	Sontag, Eduardo D.	Rutgers Univ
Chai, Guofei	Zhejiang Univ		
Lin, Zhiyun	Zhejiang Univ		
Yan, Gangfeng	Zhejiang Univ		
Mao, Guoqiang	The Univ. of Tech. Sydney		
09:50-10:10	WeA20.5		
<i>Partitioning Algorithms for Homogeneous Multi-Vehicle Systems with Planar Rigid Body Dynamics</i> , pp. 5393-5398.			
Bakolas, Efstathios	The Univ. of Texas at Austin		
10:10-10:30	WeA20.6		
<i>Decentralized Formation Tracking Control of Autonomous Vehicles on Straight Paths</i> , pp. 5399-5404.			
Loria, Antonio	Cnrs	09:10-09:30	WeA21.3
Kuvulmaz, Janset	Yildiz Tech. Univ	<i>Quantifying the Effect of Interconnections on the Steady States of Biomolecular Networks</i> (I), pp. 5419-5424.	
Alvarez Jarquin, Nohemi	Cinvestav-Ipn	Sontag, Eduardo D.	Rutgers Univ
WeA21	Plaza 3		
Context-Dependence in Systems and Synthetic Biology (Invited Session)			
Chair: Del Vecchio, Domitilla	Massachusetts Inst. of Tech.	09:30-09:50	WeA21.4
Co-Chair: Yeung, Enoch	California Inst. of Tech.	<i>Detection of Loading Effects in Bacterial Stress Response Using Biochemical Stochasticity</i> (I), pp. 5425-5430.	
Organizer: Gyorgy, Andras	Massachusetts Inst. of Tech	Buzi, Gentian	ETH Zurich
Organizer: Yeung, Enoch	California Inst. of Tech.	Khammash, Mustafa H.	ETH Zurich
WePL	Salon D and E		
Bode Lecture: The Robot Rendezvous Problem (Plenary Session)			
Chair: Yamamoto, Yutaka	Kyoto Univ.	10:50-10:10	WeA21.5
Co-Chair: Farrell, Jay A.	Univ. of California Riverside	<i>Modelling Essential Interactions between Synthetic Genes and Their Chassis Cell</i> (I), pp. 5437-5444.	
Algar, Rhys	Imperial Coll. London	Algar, Rhys	Imperial Coll. London
Ellis, Thomas	Imperial Coll. London	Ellis, Thomas	Imperial Coll. London
Stan, Guy-Bart Vincent	Imperial Coll. London	Stan, Guy-Bart Vincent	Imperial Coll. London
WePL.1	11:00-12:00		
<i>The Robot Rendezvous Problem*</i> .			
Francis, Bruce	Univ. of Toronto		
WeB01	Salon F		
Switched Systems II (Regular Session)			
Chair: Lazar, Mircea	Eindhoven Univ. of Tech.	13:30-13:50	WeB01.1
Co-Chair: Antunes, Duarte	Eindhoven Univ. of Tech. the Netherlands.	<i>Stability of Linear Autonomous Systems under Regular Switching Sequences</i> , pp. 5445-5450.	

Wang, Yu	Univ. Illinois, Urbana-Champaign	WeB02.4
Roohi, Nima	Univ. Illinois, Urbana-Champaign	
Dullerud, Geir E.	Univ. Illinois, Urbana-Champaign	
Viswanathan, Mahesh	Univ. of Illinois	
13:50-14:10	WeB01.2	
<i>Stability Analysis of Switched Linear Systems Defined by Graphs</i> , pp. 5451-5456.		
Athanasiopoulos, Nikolaos	Eindhoven Univ. of Tech	
Lazar, Mircea	Eindhoven Univ. of Tech	
14:10-14:30	WeB01.3	
<i>Equivalence between Different Stabilities of Discrete-Time Delayed Switched Systems with Uncertainties</i> , pp. 5457-5462.		
Liu, Xingwen	Southwest Univ. for Nationalities	
Liu, Duyu	Swun	
14:30-14:50	WeB01.4	
<i>Efficiently Computable Lower Bounds for the p-Radius of Switching Linear Systems</i> , pp. 5463-5468.		
Ogura, Masaki	Texas Tech. Univ	
Jungers, Raphaël	Univ. of Louvain	
14:50-15:10	WeB01.5	
<i>On Stabilizability Conditions for Discrete-Time Switched Linear Systems</i> , pp. 5469-5474.		
Fiacchini, Mirko	GIPSA-Lab	
Girard, Antoine	Univ. Joseph Fourier	
Jungers, Marc	CNRS - Univ. De Lorraine	
15:10-15:30	WeB01.6	
<i>Performance Analysis of a Class of Linear Quadratic Regulators for Switched Linear Systems</i> , pp. 5475-5480.		
Antunes, Duarte	Eindhoven Univ. of Tech	
Heemels, W.P.M.H.	Eindhoven Univ. of Tech	
WeB02		Salon G
Constructing Lyapunov Functions (Regular Session)		
Chair: Moreno, Jaime A.	Univ. Nacional Autonoma de Mexico-UNAM	
Co-Chair: Peet, Matthew M.	Arizona State Univ.	
13:30-13:50	WeB02.1	
<i>Constructing Piecewise-Polynomial Lyapunov Functions for Local Stability of Nonlinear Systems Using Handelman's Theorem</i> , pp. 5481-5487.		
Kamyar, Reza	Arizona State Univ	
Murti, Chaitanya	Illinois Inst. of Tech	
Peet, Matthew M.	Arizona State Univ	
13:50-14:10	WeB02.2	
<i>Structured Storage Functions for Cascaded Systems</i> , pp. 5488-5493.		
Prescott, Thomas Paul	Univ. of Oxford	
Papachristodoulou, Antonis	Univ. of Oxford	
14:10-14:30	WeB02.3	
<i>Construction of Lyapunov Functions for Homogeneous Second Order Systems</i> , pp. 5494-5499.		
Lopez-Ramirez, Francisco	Univ. Nacional Autonoma De Mexico-UNAM	
Sanchez Ramirez, Tonametl	Univ. Nacional Autonoma De Mexico-UNAM	
Moreno, Jaime A.	Univ. Nacional Autonoma De Mexico-UNAM	
14:30-14:50	WeB02.4	
<i>A Constructive Lyapunov Function Design Method for a Class of Homogeneous Systems</i> , pp. 5500-5505.		
Sanchez Ramirez, Tonametl	Univ. Nacional Autonoma De Mexico-UNAM	
Moreno, Jaime A.	Univ. Nacional Autonoma De Mexico-UNAM	
14:50-15:10	WeB02.5	
<i>Computation of Continuous and Piecewise Affine Lyapunov Functions by Numerical Approximations of the Massera Construction</i> , pp. 5506-5511.		
Björnsson, Jóhann Sigursteinn	Univ. of Reykjavík	
Giesl, Peter	Univ. of Sussex	
Hafstein, Sigurdur	Univ. of Reykjavík	
Kellett, Christopher M.	Univ. of Newcastle	
Li, Huijuan	Univ. of Bayreuth	
15:10-15:30	WeB02.6	
<i>Computation of Lyapunov Functions for Discrete-Time Systems Using the Yoshizawa Construction</i> , pp. 5512-5517.		
Li, Huijuan	Univ. of Bayreuth	
Hafstein, Sigurdur	Univ. of Reykjavík	
Kellett, Christopher M.	Univ. of Newcastle	
WeB03		Salon H
Sliding Mode Control II (Regular Session)		
Chair: Bartoszewicz, Andrzej	Tech. Univ. of Lodz	
Co-Chair: Menon, Prathyush P	Univ. of Exeter	
13:30-13:50	WeB03.1	
<i>Boundary Tracking Using a Suboptimal Sliding Mode Algorithm</i> , pp. 5518-5523.		
Menon, Prathyush P	Univ. of Exeter	
Edwards, Christopher	Univ. of Exeter	
Shtessel, Yuri B.	Univ. of Alabama at Huntsville	
Ghose, Debasish	Indian Inst. of Science	
Haywood, Jim	Univ. of Exeter	
13:50-14:10	WeB03.2	
<i>State Estimation with Unknown Input and Measurement Noise Reconstruction Based on Descriptor Systems</i> , pp. 5524-5529.		
Zhu, Fanglai	Coll	
Xu, Liyun	Tongji Univ	
Zhang, Wei	Shanghai Univ. of Eng. Science	
Fan, Wu	Tongji Univ	
14:10-14:30	WeB03.3	
<i>Second Order Sliding Mode Control of a Mobile Hydraulic Crane</i> , pp. 5530-5535.		
Vázquez, Carlos	Umeå Univ	
Aranovskiy, Stanislav	ITMO Univ	
Freidovich, Leonid B.	Umeå Univ	
Fridman, Leonid M.	National Autonomous Univ. of Mexico	
14:30-14:50	WeB03.4	
<i>ISS-Lyapunov Functions for Output Feedback Sliding Modes</i> , pp. 5536-5541.		
Aparicio Martínez, Andrea	National Autonomous Univ. of Mexico	
Castaños, Fernando	Cinvestav	
Fridman, Leonid M.	National Autonomous Univ. of Mexico	

14:50-15:10	WeB03.5	
<i>Networked Sliding Mode Control with Chattering Alleviation</i> , pp. 5542-5547.		
Ferrara, Antonella Incremona, Gian Paolo Stocchetti, Veronica	Univ. of Pavia Univ. of Pavia Univ. of Pavia	
15:10-15:30	WeB03.6	
<i>Inverse Tangent Reaching Law for Discrete Sliding Mode Control with Application to Inventory Management</i> , pp. 5548-5553.		
Bartoszewicz, Andrzej Leśniewski, Piotr	Tech. Univ. of Lodz Tech. Univ. of Lodz	
WeB04	Salon I	
Computational Methods I (Regular Session)		
Chair: Najafi, Mahmoud Co-Chair: Chakraborty, Debraj	Kent State Univ. Indian Inst. of Tech. Bombay	
13:30-13:50	WeB04.1	
<i>Distributed Computation of Minimum Time Consensus for Multi-Agent Systems</i> , pp. 5554-5559.		
Mulla, Ameer, Kalandar Patil, Deepak U. Chakraborty, Debraj	Indian Inst. of Tech. Bombay Indian Inst. of Tech. Bombay Indian Inst. of Tech. Bombay	
13:50-14:10	WeB04.2	
<i>Computational Investigations of Decentralized Cellular Network Optimization Via Mean Field Control</i> , pp. 5560-5567.		
Aziz, Mohamad Caines, Peter E.	McGill Univ McGill Univ	
14:10-14:30	WeB04.3	
<i>A New Semi-Smooth Newton Multigrid Method for Parabolic PDE Optimal Control Problems</i> , pp. 5568-5573.		
Liu, Jun Xiao, Mingqing	Southern Illinois Univ. Carbondale Southern Illinois Univ	
14:30-14:50	WeB04.4	
<i>A Linear Time Algorithm to Verify Strong Structural Controllability</i> , pp. 5574-5580.		
Weber, Alexander Reissig, Gunther Svaricek, Ferdinand	Univ. of the Federal Armed Forces Munich Univ. of the Federal Armed Forces Munich Univ. of the Federal Armed Forces Munich	
14:50-15:10	WeB04.5	
<i>Inverse Optimal Control with Polynomial Optimization</i> , pp. 5581-5586.		
Pauwels, Edouard Henrion, Didier Lasserre, Jean B.	LAAS-CNRS LAAS-CNRS LAAS-CNRS and Inst. of Mathematics, Univ. Oftoulouse	
15:10-15:30	WeB04.6	
<i>Exploration of Analytical Solutions of Nonlinear Oscillatory Systems Via the Decomposition Method</i> , pp. 5587-5592.		
Najafi, Mahmoud Fincher, Donald Wayne	Kent State Univ Kent State Univ. Ashtabula	
WeB05	Salon J	
Algebraic and Geometric Methods II (Regular Session)		
Chair: Carravetta, Francesco Co-Chair: Bonnabel, Silvere	IASI-CNR Mines ParisTech	
13:30-13:50	WeB05.1	
<i>Random Pairwise Gossip on CAT(0) Metric Spaces</i> , pp. 5593-5598.		
Bellachehab, Anass Jakubowicz, Jérémie	Telecom SudParis Telecom SudParis - CNRS	
13:50-14:10	WeB05.2	
<i>Invariant Particle Filtering with Application to Localization</i> , pp. 5599-5605.		
Barrau, Axel Bonnabel, Silvere	Mines ParisTech Mines ParisTech	
14:10-14:30	WeB05.3	
<i>An Intrinsic Robust PID Controller on Lie Groups</i> , pp. 5606-5611.		
Maithripala, D. H. S. Berg, Jordan M.	Univ. of Peradeniya Texas Tech. Univ	
14:30-14:50	WeB05.4	
<i>Almost-Global Exponential State-Feedback Stabilization of an Underactuated Rigid-Body in 3D</i> , pp. 5612-5617.		
Carravetta, Francesco	IASI-CNR	
14:50-15:10	WeB05.5	
<i>Real Analytic Control Systems</i> , pp. 5618-5623.		
Jafarpour, Saber Lewis, Andrew D.	Queen's Univ Queen's Univ	
15:10-15:30	WeB05.6	
<i>New Conditions to Keep Static Feedback Linearizability under Addition of New Inputs</i> , pp. 5624-5629.		
Franch, Jaume Reyes, Alex	Univ. Pol. De Catalunya Univ. Pol. De Catalunya	
WeB06	Salon 6	
Energy Systems (Regular Session)		
Chair: Zampieri, Sandro Co-Chair: Dotoli, Mariagrazia	Univ. di Padova Pol. di Bari	
13:30-13:50	WeB06.1	
<i>Decentralized Foresighted Energy Purchase and Procurement with Renewable Generation and Energy Storage</i> , pp. 5630-5635.		
Xiao, Yuanzhang van der Schaar, Mihaela	Univ. of California Los Angeles Univ. of California Los Angeles	
13:50-14:10	WeB06.2	
<i>Optimal Frequency Separation of Power Sources by Multivariable LPV/\$H_{\infty}\$ Control: Application to On-Board Energy Management Systems of Electric Vehicles</i> , pp. 5636-5641.		
Nwesaty, Waleed Bratcu, Antoneta Sename, Olivier	Gipsa-Lab Grenoble Inst. of Tech Univ. Grenoble Alpes	
14:10-14:30	WeB06.3	
<i>A Distributed Control Algorithm for the Minimization of the Power Generation Cost in Smart Micro-Grid</i> , pp. 5642-5647.		
Carvralo, Guido Carli, Ruggero Zampieri, Sandro	Univ. Di Padova Univ. Di Padova Univ. Di Padova	
14:30-14:50	WeB06.4	
<i>Energy Scheduling of a Smart Home under Nonlinear Pricing</i> , pp. 5648-5653.		
Carli, Raffaele Dotoli, Mariagrazia	Pol. Di Bari Pol. Di Bari	

14:50-15:10	WeB06.5	
<i>A Novel Bounded Cooperative Multi-Rate Current-Sharing Control for Parallel Charging System with Directed Communication, pp. 5654-5659.</i>		
Liu, Jiangang Huang, Zhiwu Peng, Jun Liu, Weirong	Central South Univ Central South Univ Central South Univ Central South Univ	
15:10-15:30	WeB06.6	
<i>Closed-Loop Control of the Safety Factor Profile in the TCV Tokamak (I), pp. 5660-5665.</i>		
Barton, Justin Schuster, Eugenio Felici, Federico Sauter, Olivier	Lehigh Univ Lehigh Univ Eindhoven Univ. of Tech EPFL	
WeB07	Salon 7	
Emerging Control Applications II (Regular Session)		
Chair: Lagoa, Constantino M. Co-Chair: Nikolakopoulos, George	Pennsylvania State Univ. Luleå Univ. of Tech.	
13:30-13:50	WeB07.1	
<i>Multi-Attribute Data Dynamics Discontinuity Identification: A Probabilistic Approach Using Linear Modeling, pp. 5666-5673.</i>		
Laftchiev, Emil Lagoa, Constantino M. Brennan, Sean	Pennsylvania State Univ Pennsylvania State Univ Pennsylvania State Univ	
13:50-14:10	WeB07.2	
<i>Adaptive Robust Optimization for Coordinated Capacity and Load Control in Data Centers, pp. 5674-5679.</i>		
Yin, Xiaoqi Sinopoli, Bruno	Carnegie Mellon Univ Carnegie Mellon Univ	
14:10-14:30	WeB07.3	
<i>An Experimental Investigation of Real-Time, Occupancy-Based Control of Commercial Building Climate, pp. 5680-5685.</i>		
Brooks, Jonathan Goyal, Siddharth Subramany, Rahul Lin, Yashen Middelkoop, Timothy Arpan, Laura Carloni, Luca Barooh, Prabir	Univ. of Florida Pacific Northwest National Lab Univ. of Florida Univ. of Florida Univ. of Florida Florida State Univ Columbia Univ Univ. of Florida	
14:30-14:50	WeB07.4	
<i>On Modeling and Control of the Retraction Phase for Airborne Wind Energy Systems, pp. 5686-5691.</i>		
Zgraggen, Aldo Urban Fagiano, Lorenzo Morari, Manfred	ETH Zurich ABB Switzerland Ltd ETH Zurich	
14:50-15:10	WeB07.5	
<i>Roll Reduction and Course Keeping for the Ship Moving in Waves with Factorised NGMV Control, pp. 5692-5697.</i>		
Liu, Zhiqian Hongzhang, Jin Grimble, Michael John Katebi, Reza	Harbin Engineering Univ Harbin Engineering Univ Univ. of Strathclyde Univ. of Strathclyde	
15:10-15:30	WeB07.6	
<i>Frame Induced Vibration Estimation and Attenuation Scheme on a Multirotor Helicopter, pp. 5698-5703.</i>		
Fresk, Emil Nikolakopoulos, George	Luleå Univ. of Tech Luleå Univ. of Tech	
WeB08	Salon 8	
Statistical Learning (Regular Session)		
Chair: Jadbabaie, Ali Co-Chair: Hui, Qing	Univ. of Pennsylvania Texas Tech. Univ.	
13:30-13:50	WeB08.1	
<i>Experimental Design for System Identification of Boolean Control Networks in Biology, pp. 5704-5709.</i>		
Busetto, Alberto Giovanni Lygeros, John	UCSB ETH Zurich	
13:50-14:10	WeB08.2	
<i>A Parallel Method for Large Scale Convex Regression Problems, pp. 5710-5717.</i>		
Aybat, Necdet Serhat Wang, Zi	Pennsylvania State Univ Pennsylvania State Univ	
14:10-14:30	WeB08.3	
<i>Satisficing in Gaussian Bandit Problems, pp. 5718-5723.</i>		
Reverdy, Paul Leonard, Naomi Ehrich	Princeton Univ Princeton Univ	
14:30-14:50	WeB08.4	
<i>Novel Response Surface Methodologies with Design of Experiment for Source Localization in Unknown Spatial-Temporal Fields, pp. 5724-5729.</i>		
Liu, Zhenyi Smith, Philip Park, Trevor Trindade, A. Alexandre Hui, Qing	Texas Tech. Univ Texas Tech. Univ Univ. Illinois, Urbana-Champaign Texas Tech. Univ Texas Tech. Univ	
14:50-15:10	WeB08.5	
<i>(Non-)Bayesian Learning without Recall, pp. 5730-5735.</i>		
Rahimian, Mohammad Amin Molavi, Pooya Jadbabaie, Ali	Univ. of Pennsylvania Mit Univ. of Pennsylvania	
15:10-15:30	WeB08.6	
<i>Inverse Covariance Estimation from Data with Missing Values Using the Concave-Convex Procedure, pp. 5736-5742.</i>		
Thai, Jerome Bayen, Alexandre Akametalu, Anayo K. Tomlin, Claire J. Hunter, Timothy	Univ. of California, Berkeley Univ. of California, Berkeley Univ. of California, Berkeley Univ. of California, Berkeley Univ. of California, Berkeley	
WeB09	Salon 9	
Fault Detection I (Regular Session)		
Chair: Previdi, Fabio Co-Chair: Zhang, Xiaodong	Univ. degli Studi di Bergamo Wright State Univ.	
13:30-13:50	WeB09.1	
<i>Integrated Fault Detection, Isolation and Control Design for Continuous-Time Markovian Jump Systems with Uncertain Transition Probabilities, pp. 5743-5749.</i>		
Davoodi, Mohammadreza	Qatar Univ	

Meskin, Nader Khorasani, Khashayar	Qatar Univ Concordia Univ	WeB10.4
13:50-14:10	WeB09.2	
<i>A Discrete-Time Game Theoretic Multiple-Fault Detection Filter</i> , pp. 5750-5757.		
Murray, Emmanuel A. Speyer, Jason L.	SySense, Inc Univ. of California at Los Angeles	
14:10-14:30	WeB09.3	WeB10.5
<i>Model-Based Fault Diagnosis and Prediction for a Class of Distributed Parameter Systems</i> , pp. 5758-5763.		
Cai, Jia Ferdowsi, Hasan Jagannathan, Sarangapani	Missouri Univ. of Science & Tech Missouri Univ. of Science & Tech Missouri Univ. of Science & Tech	
14:30-14:50	WeB09.4	WeB10.6
<i>Robust Residual Selection for Fault Detection</i> , pp. 5764-5769.		
Khorasgani, Hamed Eriksson, Daniel Biswas, Gautam Frisk, Erik Krysander, Mattias	Vanderbilt Univ Linköping Univ Vanderbilt Univ Linköping Univ Linköping Univ	
14:50-15:10	WeB09.5	WeB11.1
<i>Fault Detection Via Modified Principal Direction Divisive Partitioning and Application to Aerospace Electro-Mechanical Actuators</i> , pp. 5770-5775.		
Mazzoleni, Mirko Formentin, Simone Previdi, Fabio Savaresi, Sergio M.	Univ. di Bergamo Pol. di Milano Univ. di Bergamo Pol. di Milano	
15:10-15:30	WeB09.6	WeB11.2
<i>Coding Sensor Outputs for Injection Attacks Detection</i> , pp. 5776-5781.		
Miao, Fei Zhu, Quanyan Pajic, Miroslav Pappas, George J.	Univ. of Pennsylvania New York Univ Univ. of Pennsylvania Univ. of Pennsylvania	
WeB10	Salon 10	
Quantum Information and Control (Regular Session)		
Chair: Nurdin, Hendra Ishwara Co-Chair: Marriott, John	UNSW Australia Univ. of Hawaii	
13:30-13:50	WeB10.1	
<i>Coherent-Classical Estimation versus Purely-Classical Estimation for Linear Quantum Systems</i> , pp. 5782-5787.		
Roy, Shibdas Petersen, Ian R. Huntington, Elanor	Univ. of New South Wales Univ. of New South Wales at the Australian Defence Force Acad Univ. of New South Wales	
13:50-14:10	WeB10.2	
<i>The Round-Trip Contrast Problem (I)</i> , pp. 5788-5793.		
Marriott, John	Univ. of Hawaii	
14:10-14:30	WeB10.3	
<i>Indirect Control Invariance of Decoherence-Splitting Manifold (DSM)</i> , pp. 5794-5801.		
Jonckheere, Edmond A. Shabani, Alireza Rezakhani, Ali	Univ. of Southern California Univ. of Southern California Sharif Univ. of Tech	
14:30-14:50	WeB10.4	
<i>Robust Entanglement Control between Two Atoms in a Cavity Using Sampling-Based Learning Control</i> , pp. 5802-5807.		
Mabrok, Mohamed Abdalla Dong, Daoyi Chen, Chunlin Petersen, Ian R.	Univ. of New South Wales at the Australian Defence Force Acad Univ. of New South Wales Nanjing Univ Univ. of New South Wales at the Australian Defence Force Acad	
14:50-15:10	WeB10.5	
<i>New Complete Parameterizations for Two Related Classes of Linear Quantum Stochastic Systems</i> , pp. 5808-5812.		
Techakesari, Onvaree Nurdin, Hendra Ishwara	UNSW Australia UNSW Australia	
15:10-15:30	WeB10.6	
<i>Effect of Phase Shifts on EPR Entanglement Generated on Two Propagating Gaussian Fields Via Coherent Feedback</i> , pp. 5813-5818.		
Shi, Zhan Nurdin, Hendra Ishwara	Univ. of New South Wales Univ. of New South Wales	
WeB11	Georgia 1	
Optimization Algorithms III (Regular Session)		
Chair: Sato, Hiroyuki Co-Chair: Yousefian, Farzad	Kyoto Univ. Univ. of Illinois at Urbana-Champaign	
13:30-13:50	WeB11.1	
<i>Infeasibility Detection in Alternating Direction Method of Multipliers for Convex Quadratic Programs</i> , pp. 5819-5824.		
Raghunathan, Arvind Di Cairano, Stefano	Mitsubishi Electric Res. Lab Mitsubishi Electric Res. Lab	
13:50-14:10	WeB11.2	
<i>Optimization on the Space of Rigid and Flexible Motions: An Alternative Manifold Optimization Approach</i> , pp. 5825-5830.		
Vakili, Pirooz Mirzaei, Hanieh Zarafian, Shahrooz Paschalidis, Ioannis Ch. Kozakov, Dima Vajda, Sandor	Boston Univ Boston Univ Boston Univ Boston Univ Boston Univ Boston Univ	
14:10-14:30	WeB11.3	
<i>Optimal Robust Smoothing Extragradient Algorithms for Stochastic Variational Inequality Problems</i> , pp. 5831-5836.		
Yousefian, Farzad Nedich, Angelia Shanbhag, Uday V.	Univ. of Illinois at Urbana-Champaign Univ. of Illinois, Urbana-Champaign Pennsylvania State Univ	
14:30-14:50	WeB11.4	
<i>A Fixed Time Convergent Dynamical System to Solve Linear Programming</i> , pp. 5837-5842.		
Sánchez-Torres, Juan Diego Loza-Lopez, Martín J. Ruiz-Cruz, Riemann Sanchez, Edgar N. Loukianov, Alexander G.	Centro De Investigación Y De Estudios Avanzados Del Inst. Po CINVESTAV Inst. Tecnológico Y De Estudios Superiores De Occidente CINVESTAV CINVESTAV IPN Unidad GDL	

14:50-15:10	WeB11.5	Zeilinger, Melanie N. Tomlin, Claire J.	Univ. of California, Berkeley Univ. of California, Berkeley
<i>A Primal-Dual Newton Method for Distributed Quadratic Programming</i> , pp. 5843-5848.			
Klintberg, Emil Gros, Sébastien	Chalmers Univ. of Tech Chalmers Univ. of Tech		
15:10-15:30	WeB11.6		
<i>Riemannian Conjugate Gradient Method for Complex Singular Value Decomposition Problem</i> , pp. 5849-5854.			
Sato, Hiroyuki	Tokyo Univ. of Science		
WeB12	Georgia 2		
Optimal Control III (Regular Session)			
Chair: Rao, Anil V. Co-Chair: Horowitz, Matanya	Univ. of Florida California Inst. of Tech.		
13:30-13:50	WeB12.1		
<i>Geometric Optimal Control for Symmetry Breaking Cost Functions</i> , pp. 5855-5861.			
Borum, Andy	Univ. of Illinois at Urbana-Champaign	Sokoler, Leo Emil Dammann, Bernd	Tech. Univ. of Denmark Tech. Univ. of Denmark
Bretl, Timothy	Univ. of Illinois, Urbana-Champaign	Madsen, Henrik Jorgensen, John Bagterp	Tech. Univ. of Denmark Tech. Univ. of Denmark
13:50-14:10	WeB12.2		
<i>Optimal Turning Gait for Mechanical Rectifier Systems with Three Dimensional Motion</i> , pp. 5862-5867.		Pu, Ye Zeilinger, Melanie N. Jones, Colin N.	École Pol. Fédérale De Lausanne UC Berkeley École Pol. Fédérale De Lausanne
14:10-14:30	WeB12.3		
<i>An Hp Mesh Refinement Method for Optimal Control Using Discontinuity Detection and Mesh Size Reduction</i> , pp. 5868-5873.		Koegel, Markus Findeisen, Rolf	OVG Univ. Magdeburg OVG Univ. Magdeburg
Liu, Fengjin Hager, William W. Rao, Anil V.	Univ. of Florida Univ. of Florida Univ. of Florida		
14:30-14:50	WeB12.4		
<i>Optimal Control for Control Moment Gyros Center-Stable Manifold Approach</i> , pp. 5874-5879.		van der Sande, Thomas Petrus Johannes Besselink, Igo Nijmeijer, Hendrik	Eindhoven Univ. of Tech Eindhoven Univ. of Tech Eindhoven Univ. of Tech
14:50-15:10	WeB12.5		
<i>Linear Hamilton Jacobi Bellman Equations in High Dimensions</i> , pp. 5880-5887.		WeB14	Olympic 1
Horowitz, Matanya Damle, Anil Burdick, Joel W.	California Inst. of Tech Stanford Univ California Inst. of Tech	Discrete-Event Based Modeling, Diagnosis, Control and Resource Management of Complex Systems for Safe and Optimal Operations (Invited Session)	
15:10-15:30	WeB12.6		
<i>Converging to and Escaping from the Global Equilibrium: Isostables and Optimal Control</i> , pp. 5888-5893.		Chair: Su, Rong Co-Chair: Lennartson, Bengt Organizer: Su, Rong Organizer: Lennartson, Bengt Organizer: Brandin, Bertil A.	Nanyang Tech. Univ. Chalmers Univ. of Tech. Nanyang Tech. Univ. Chalmers Univ. of Tech. Asea Brown Boveri
Mauroy, Alexandre	Univ. of Liege		
WeB13	Atrium 1		
Predictive Control for Linear Systems I (Regular Session)			
Chair: Findeisen, Rolf Co-Chair: Jorgensen, John Bagterp	OVG Univ. Magdeburg Tech. Univ. of Denmark		
13:30-13:50	WeB13.1		
<i>Plug-And-Play Model Predictive Control for Electric Vehicle Charging and Voltage Control in Smart Grids</i> , pp. 5894-5900.		Fei, Zhennan Akesson, Knut Reveliotis, Spyros	Chalmers Univ. of Tech Chalmers Univ. of Tech Georgia Inst. of Tech
Bansal, Somil	Univ. of California, Berkeley		
13:50-14:10	WeB13.2		
<i>An Application of Chance-Constrained Model Predictive Control to Inventory Management in Hospitalary Pharmacy</i> , pp. 5901-5906.			
Maestre, J.M. Velarde, Pablo Jurado, Isabel Ocampo-Martinez, Carlos Fernández García, Isabel Isla Tejera, Beatriz Del Prado Llergo, José Ramón	Univ. of Seville Univ. of Seville Univ. of Seville Tech. Univ. of Catalonia (UPC) Hospital San Juan De Diós Hospital Reina Sofía Hospital Reina Sofía		
14:10-14:30	WeB13.3		
<i>A Mean-Variance Criterion for Economic Model Predictive Control of Stochastic Linear Systems</i> , pp. 5907-5914.			
Pu, Ye Zeilinger, Melanie N. Jones, Colin N.			
14:30-14:50	WeB13.4		
<i>Inexact Fast Alternating Minimization Algorithm for Distributed Model Predictive Control</i> , pp. 5915-5921.			
14:50-15:10	WeB13.5		
<i>Stabilization of Inexact MPC Schemes</i> , pp. 5922-5928.			
Koegel, Markus Findeisen, Rolf			
15:10-15:30	WeB13.6		
<i>Control of a Semi-Active Suspension System for Comfort by Means of a Rule-Based Controller</i> , pp. 5929-5934.			
van der Sande, Thomas Petrus Johannes Besselink, Igo Nijmeijer, Hendrik			
13:30-13:50	WeB14.1		
<i>Symbolic Computation and Representation of Deadlock Avoidance Policies for Complex Resource Allocation Systems with Application to Multithreaded Software (I)</i> , pp. 5935-5942.			
Fei, Zhennan Akesson, Knut Reveliotis, Spyros			
13:50-14:10	WeB14.2		
<i>Automaton-Based Timed Supervisory Control for Operational Planning and Scheduling under Multiple Job Deadlines (I)</i> , pp. 5943-5948.			

Lin, Liyong Shehabinia, Ahmad Reza Su, Rong Brandin, Bertil A.	Nanyang Tech. Univ Nanyang Tech. Univ Nanyang Tech. Univ Asea Brown Boveri	WeB15.4
14:10-14:30	WeB14.3	
<i>Power Distribution Network Management Using Networked Control of Timed Discrete Event Systems (I)</i> , pp. 5949-5954.		
Zhao, Bo Lin, Feng Wang, Caisheng Zhang, Xuesong Polis, Michael P. Wang, Le Yi	State Grid Zhejiang Electric Power Res. Inst Wayne State Univ Wayne State Univ State Grid Zhejiang Electric Power Res. Inst Oakland Univ Wayne State Univ	National Inst. of Aerospace Nasa Nasa
14:30-14:50	WeB14.4	WeB15.5
<i>Distributed Diagnosis Using Predetermined Synchronization Strategies (I)</i> , pp. 5955-5960.		
Keroglou, Christoforos Hadjicostis, Christoforos	Univ. of Cyprus Univ. of Cyprus	Univ. of California, Berkeley Pol. di Milano ETH Zurich
14:50-15:10	WeB14.5	WeB15.6
<i>Computation of the Delay Bound in Decentralized Diagnosis of Discrete Event Systems with Conditional Decisions</i> , pp. 5961-5966.		
Yokota, Shoichi Takai, Shigemasa	Osaka Univ Osaka Univ	Univ. of Florence Univ. of Florence Univ. of Florence Univ. of Groningen
15:10-15:30	WeB14.6	Olympic 2
<i>An Observer for Tropical Linear Event-Invariant Dynamical Systems</i> , pp. 5967-5972.		
Goncalves, Vinicius Maia, Carlos Andrey Hardouin, Laurent Shang, Ying	Univ. Federal De Minas Gerais Univ. Federal De Minas Gerais Univ. of Angers Southern Illinois Univ. Edwardsville	Data Tactics Corp. Georgia Inst. of Tech.
WeB15	Atrium 2	
Uncertain Systems (Regular Session)		
Chair: Battistelli, Giorgio Co-Chair: Crespo, Luis G	Univ. of Florence National Inst. of Aerospace	
13:30-13:50	WeB15.1	
<i>Saddle-Node Bifurcation and Its Robustness Analysis: A Mechanism for Inducing Pluripotency in Stem Cell</i> , pp. 5973-5978.		
Inoue, Masaki Imura, Jun-ichi Arai, Takayuki Kashima, Kenji Aihara, Kazuyuki	Keio Univ Tokyo Inst. of Tech Tokyo Inst. of Tech Kyoto Univ Univ. of Tokyo	
13:50-14:10	WeB15.2	
<i>Convex Hierarchical Analysis for the Performances of Uncertain Large-Scale Systems</i> , pp. 5979-5984.		
Dinh, Marc Kornienko, Anton Scorletti, Gerard	Astrium Ec. Centrale De Lyon Ec. Centrale De Lyon	
14:10-14:30	WeB15.3	
<i>On the Robust H-Infinity Norm of 2D Mixed Continuous-Discrete-Time Systems with Uncertainty</i> , pp. 5985-5990.		
Chesi, Graziano	Univ. of Hong Kong	Texas A&M Univ
14:30-14:50	WeB15.4	
<i>Interval Predictor Models with a Formal Characterization of Uncertainty and Reliability</i> , pp. 5991-5996.		
Crespo, Luis G Kenny, Sean Giesy, Daniel	National Inst. of Aerospace Nasa Nasa	
14:50-15:10	WeB15.5	
<i>A Compression Learning Perspective to Scenario Based Optimization</i> , pp. 5997-6002.		
Margellos, Kostas Prandini, Maria Lygeros, John	Univ. of California, Berkeley Pol. di Milano ETH Zurich	
15:10-15:30	WeB15.6	
<i>Unfalsified Approach to Data-Driven Control Design</i> , pp. 6003-6008.		
Battistelli, Giorgio Mari, Daniele Selvi, Daniela Tesi, Pietro	Univ. of Florence Univ. of Florence Univ. of Florence Univ. of Groningen	
WeB16		
Modeling I (Regular Session)		
Chair: Pekarek, David Co-Chair: Mukhopadhyay, Shayok	Data Tactics Corp. Georgia Inst. of Tech.	
13:30-13:50	WeB16.1	
<i>Energy-Based Modeling of Electric Motors</i> , pp. 6009-6016.		
Jebai, Al Kassem Combes, Pascal Malrait, Francois Martin, Philippe Rouchon, Pierre	MINES ParisTech MINES ParisTech Sti MINES ParisTech MINES ParisTech	
13:50-14:10	WeB16.2	
<i>A Model for Controlling the Resting Membrane Potential of Cells Using Nanoparticles</i> , pp. 6017-6022.		
Mukhopadhyay, Shayok Zhang, Fumin Warren, Emilie Payne, Christine	Georgia Inst. of Tech Georgia Inst. of Tech Georgia Inst. of Tech Georgia Inst. of Tech	
14:10-14:30	WeB16.3	
<i>Optimizing Your Online-Advertisement Asynchronously</i> , pp. 6023-6030.		
Huang, Longbo	Tsinghua Univ	
14:30-14:50	WeB16.4	
<i>A POMDP Framework for Human-In-The-Loop System</i> , pp. 6031-6036.		
Lam, Chi Pang Sastry, S. Shankar	Univ. of California, Berkeley Univ. of California, Berkeley	
14:50-15:10	WeB16.5	
<i>Projection-Based Modeling and Simulation of Nonsmooth Hamiltonian Mechanics</i> , pp. 6037-6043.		
Pekarek, David	Data Tactics Corp	
15:10-15:30	WeB16.6	
<i>A Dynamical System Pair with Identical First Two Moments but Different Probability Densities (I)</i> , pp. 6044-6049.		
Halder, Abhishek	Texas A&M Univ	

Lee, Kooktae	Texas A&M Univ	Sontag, Eduardo D.	Rutgers Univ
Bhattacharya, Raktim	Texas A&M Univ		
WeB17	Atrium 3		
Networked Control Systems II (Regular Session)			
Chair: Finke, Jorge	Pontifícia Univ. Javeriana	Costello, Zak	Georgia Inst. of Tech
Co-Chair: Vargas, Francisco J.	Univ. Técnica Federico Santa María	Egerstedt, Magnus	Georgia Inst. of Tech
13:30-13:50	WeB17.1	14:10-14:30	WeB18.3
<i>Control with Minimum Communication Cost Per Symbol</i> , pp. 6050-6055.		<i>Coordinated Rendezvous of Underwater Drifters in Ocean Internal Waves</i> (I), pp. 6099-6104.	
Pearson, Justin	Univ. of California, Santa Barbara	Ouimet, Michael	Univ. of California, San Diego
Hespanha, Joao P.	Univ. of California, Santa Barbara	Cortes, Jorge	Univ. of California, San Diego
Liberzon, Daniel	Univ. of Illinois, Urbana-Champaign		
13:50-14:10	WeB17.2	14:30-14:50	WeB18.4
<i>Constrained Proportional Integral Control of Dynamical Distribution Networks with State Constraints</i> , pp. 6056-6061.		<i>Finite-Time Road Grade Computation for a Vehicle Platoon</i> (I), pp. 6105-6110.	
Wei, Jieqiang	Univ. of Groningen	Yang, Tao	Royal Inst. of Tech
van der Schaft, Arjan J.	Univ. of Groningen	Yuan, Ye	Univ. of Cambridge
14:10-14:30	WeB17.3	Li, Kezhi	Royal Inst. of Tech
<i>Networked Control under Round-Robin Protocol: Multiple Sensors and Non-Small Communication Delays</i> , pp. 6062-6067.		Goncalves, Jorge M.	Univ. of Cambridge
Fridman, Emilia	Tel-Aviv Univ	Johansson, Karl Henrik	Royal Inst. of Tech
Liu, Kun	KTH Royal Inst. of Tech		
14:30-14:50	WeB17.4	14:50-15:10	WeB18.5
<i>Model-Based Fraud Detection in Growing Networks</i> , pp. 6068-6073.		<i>Distributed Estimation of the Inertial Parameters of an Unknown Load Via Multi-Robot Manipulation</i> (I), pp. 6111-6116.	
Mariano, Pablo	Indiana Univ	Franchi, Antonio	Laas-Cnrs
Finke, Jorge	Pontifícia Univ. Javeriana	Petitti, Antonio	National Council of Res
14:50-15:10	WeB17.5	Rizzo, Alessandro	Pol. di Bari
<i>On Stabilizability of MIMO Systems Over Parallel Noisy Channels</i> , pp. 6074-6079.			
Vargas, Francisco J.	Univ. Técnica Federico Santa María	15:10-15:30	WeB18.6
Chen, Jie	City Univ. of Hong Kong	López-Limón, Carlos Aurelio	Cinvestav
Silva, Eduardo I.	Univ. Técnica Federico Santa María	Franceschelli, Mauro	Univ. of Cagliari
15:10-15:30	WeB17.6	Seatzu, Carla	Univ. of Cagliari
<i>Node Selection for Probing Connections in Evoked Dynamic Networks</i> , pp. 6080-6085.		Ramirez, Antonio	Cinvestav-Ipn
Kafashan, Mohammad Mehdi	Washington Univ. in St. Louis		
Lepage, Kyle	Boston Univ		
Ching, ShiNung	Washington Univ. in St. Louis		
WeB18	Olympic 3		
Coordination and Consensus Algorithms in Distributed Control Systems (Invited Session)			
Chair: Fanti, Maria Pia	Pol. of Bari	WeB19	Plaza 1
Co-Chair: Hadjicostis, Christoforos	Univ. of Cyprus	Quadrotor Control (Regular Session)	
Organizer: Fanti, Maria Pia	Pol. of Bari	Chair: Franzé', Giuseppe	Univ. della Calabria
Organizer: Hadjicostis, Christoforos N.	Univ. of Cyprus	Co-Chair: Lee, Taeyoung	George Washington Univ.
13:30-13:50	WeB18.1	13:30-13:50	WeB19.1
<i>Remarks on Diffusive-Link Synchronization Using Non-Hilbert Logarithmic Norms</i> (I), pp. 6086-6091.		<i>6-DOF Hovering Controller Design of the Quad Tiltrotor Aircraft: Simulations and Experiments</i> , pp. 6123-6128.	
Aminzare, Zahra	Rutgers Univ	Flores, Gerardo	Univ. De Tech. De Compiègne
		Lugo Cárdenas, Israel	Univ. De Tech. De Compiègne
		Lozano, Rogelio	Univ. De Tech. De Compiègne
14:10-14:30	WeB18.3	13:50-14:10	WeB19.2
<i>An Obstacle Avoidance and Motion Planning Command Governor Based Scheme: The Qball-X4 Quadrotor Case of Study</i> , pp. 6135-6140.		<i>Fault-Tolerant Attitude Tracking Control for a Quadrotor Aircraft</i> , pp. 6129-6134.	
		Shen, Qiang	Nanyang Tech. Univ
		Wang, Danwei	Nanyang Tech. Univ
		Zhu, Sen Qiang	Nanyang Tech. Univ
		Poh, Eng Kee	Nanyang Tech. Univ
		Lucia, Walter	Univ. Della Calabria
		Sznaier, Mario	Northeastern Univ
		Franze', Giuseppe	Univ. Della Calabria

14:30-14:50	WeB19.4	
<i>Geometric Control of Multiple Quadrotors Transporting a Rigid-Body Load</i> , pp. 6141-6148.		Plaza 3
Wu, Guofan Sreenath, Koushil	Carnegie Mellon Univ Carnegie Mellon Univ	
14:50-15:10	WeB19.5	
<i>Adaptive Control of a Quadrotor UAV Transporting a Cable-Suspended Load with Unknown Mass</i> , pp. 6149-6154.		
Dai, Shicong Lee, Taeyoung Bernstein, Dennis S.	Beihang Univ George Washington Univ Univ. of Michigan	
15:10-15:30	WeB19.6	
<i>Geometric Control of Multiple Quadrotor UAVs Transporting a Cable-Suspended Rigid Body</i> , pp. 6155-6160.		
Lee, Taeyoung	George Washington Univ	
WeB20	Plaza 2	
Agents and Autonomous Systems II (Regular Session)		
Chair: Lin, Zhiyun Co-Chair: Lin, Hai	Zhejiang Univ Univ. of Notre Dame	
13:30-13:50	WeB20.1	
<i>Formation Movements in Minimally Rigid Formation Control with Mismatched Mutual Distances</i> , pp. 6161-6166.		
Sun, Zhiyong Mou, Shaoshuai Anderson, Brian D.O. Morse, A. Stephen	Australian National Univ Yale Univ Australian National Univ Yale Univ	
13:50-14:10	WeB20.2	
<i>Efficient Multi-Robot Formations Using Distributed Optimization</i> , pp. 6167-6172.		
Montjano, Eduardo Mosteo, Alejandro R.	Centro Univ. De La Defensa Centro Univ. De La Defensa	
14:10-14:30	WeB20.3	
<i>Automatic Synthesis of Cooperative Multi-Agent Systems</i> , pp. 6173-6178.		
Dai, Jin Lin, Hai	Univ. of Notre Dame Univ. of Notre Dame	
14:30-14:50	WeB20.4	
<i>Containment for Double-Integrator Multi-Agent Systems in Heterogeneous Networks</i> , pp. 6179-6184.		
Qin, Jiahu Zheng, Weixing Gao, Huijun Ma, Qichao	Australian National Univ. Univ. of Western Sydney Harbin Inst. of Tech Univ. of Sci. and Tech. of China	
14:50-15:10	WeB20.5	
<i>A Fully Distributed Approach to Formation Maneuvering Control of Multi-Agent Systems</i> , pp. 6185-6190.		
Han, Zhimin Lin, Zhiyun Fu, Minyue	Zhejiang Univ Zhejiang Univ Univ. of Newcastle	
15:10-15:30	WeB20.6	
<i>Cyclic Pursuit without Coordinates: Convergence to Regular Polygon Formations</i> , pp. 6191-6196.		
Arnold, Maxim Baryshnikov, Yuliy Liberzon, Daniel	Univ. of Illinois Univ. Illinois, Urbana-Champaign Univ. Illinois, Urbana-Champaign	
WeB21		Plaza 3
Epidemics in Networks: Analysis and Control (Invited Session)		
Chair: Preciado, Victor M. Co-Chair: Pappas, George J. Organizer: Preciado, Victor M. Organizer: Pappas, George J.	Univ. of Pennsylvania Univ. of Pennsylvania Univ. of Pennsylvania Univ. of Pennsylvania	
13:30-13:50	WeB21.1	
<i>Stability Analysis of Generalized Epidemic Models Over Directed Networks (I)</i> , pp. 6197-6202.		
Nowzari, Cameron Preciado, Victor M. Pappas, George J.	Univ. of Pennsylvnia Univ. of Pennsylvania Univ. of Pennsylvania	
13:50-14:10	WeB21.2	
<i>Modeling and Analysis of Competitive Propagation with Social Conversion (I)</i> , pp. 6203-6208.		
Mei, Wenjun Bullo, Francesco	Univ. of California, Santa Barbara Univ. of California, Santa Barbara	
14:10-14:30	WeB21.3	
<i>Optimal Coinfection Control of Competitive Epidemics in Multi-Layer Networks</i> , pp. 6209-6214.		
Chen, Ximing Preciado, Victor M.	Univ. of Pennsylvania Univ. of Pennsylvania	
14:30-14:50	WeB21.4	
<i>Stability Properties of Infection Diffusion Dynamics Over Directed Networks (I)</i> , pp. 6215-6220.		
Khanafer, Ali Basar, Tamer Gharesifard, Bahman	Univ. Illinois, Urbana-Champaign Univ. Illinois, Urbana-Champaign Queens Univ. Canada	
14:50-15:10	WeB21.5	
<i>On the Mixing Time of the SIS Markov Chain Model for Epidemic Spread (I)</i> , pp. 6221-6227.		
Ahn, Hyoung Jun Hassibi, Babak	California Inst. of Tech Caltech	
15:10-15:30	WeB21.6	
<i>An Upper Bound for the Epidemic Threshold in Exact Markovian SIR and SIS Epidemics on Networks (I)</i> , pp. 6228-6233.		
Van Mieghem, Piet Darabi Sahneh, Faryad Scoglio, Caterina	Delft Univ. of Tech Kansas State Univ Kansas State Univ	
WeC01		Salon F
Switched Systems III (Regular Session)		
Chair: Liberzon, Daniel Co-Chair: Ozay, Necmiye	Univ. of Illinois, Urbana-Champaign Univ. of Michigan	
16:00-16:20	WeC01.1	
<i>On Observer Design for a Class of Continuous-Time Affine Switched or Switching Systems</i> , pp. 6234-6239.		
Menini, Laura Possieri, Corrado Tornambe, Antonio	Univ. Di Roma Tor Vergata Univ. Di Roma Tor Vergata Univ. Di Roma Tor Vergata	
16:20-16:40	WeC01.2	
<i>Input-To-State Stability for Switched Systems with Unstable Subsystems: A Hybrid Lyapunov Construction</i> , pp. 6240-6245.		
Yang, Guosong Liberzon, Daniel	Univ. Illinois, Urbana-Champaign Univ. Illinois, Urbana-Champaign	

16:40-17:00	WeC01.3	
<i>Incremental Synthesis of Switching Protocols Via Abstraction Refinement</i> , pp. 6246-6253.		
Nilsson, Petter	Univ. of Michigan	
Ozay, Necmiye	Univ. of Michigan	
17:00-17:20	WeC01.4	
<i>A Hierarchical Approach to Adaptive Disturbance Attenuation Combining Switching and Tuning</i> , pp. 6254-6259.		
Battistelli, Giorgio	Univ. of Florence	
Mari, Daniele	Univ. of Florence	
Selvi, Daniela	Univ. of Florence	
Tesi, Alberto	Univ. of Florence	
Tesi, Pietro	Univ. of Groningen	
17:20-17:40	WeC01.5	
<i>Cadence Control of Stationary Cycling Induced by Switched Functional Electrical Stimulation Control</i> , pp. 6260-6265.		
Bellman, Matthew	Univ. of Florida	
Cheng, Teng-Hu	Univ. of Florida	
Downey, Ryan J.	Univ. of Florida	
Dixon, Warren E.	Univ. of Florida	
17:40-18:00	WeC01.6	
<i>Explicit Sufficient Stability Conditions on Dwell Time of Linear Switched Systems</i> , pp. 6266-6270.		
Karabacak, Özkan	Istanbul Tech. Univ	
İlhan, Ferruh	Istanbul Tech. Univ	
Öner, Işıl	Gebze Inst. of Tech	
WeC02	Salon G	
Lyapunov Methods (Regular Session)		
Chair: Ames, Aaron D.	Texas A&M Univ.	
Co-Chair: Iervolino, Raffaele	Univ. Degli Studi Di Napoli Federico li	
16:00-16:20	WeC02.1	
<i>Control Barrier Function Based Quadratic Programs with Application to Adaptive Cruise Control</i> , pp. 6271-6278.		
Ames, Aaron D.	Texas A&M Univ	
Grizzle, Jessy W.	Univ. of Michigan	
Tabuada, Paulo	Univ. of California at Los Angeles	
16:20-16:40	WeC02.2	
<i>On Robustness of a Class of Homogeneous Continuous Finite Time Controllers</i> , pp. 6279-6284.		
Oza, Harshal B.	Univ. of Kent	
Orlov, Yury	Cicese	
Spurgeon, Sarah K.	Univ. of Kent	
16:40-17:00	WeC02.3	
<i>Input-To-State Stabilizing Controller for Nonlinear Systems on Manifolds</i> , pp. 6285-6290.		
Satoh, Yasuyuki	Tokyo Univ. of Science	
Nakamura, Nami	None	
Nakamura, Hisakazu	Tokyo Univ. of Science	
17:00-17:20	WeC02.4	
<i>Quadratic Program Based Nonlinear Embedded Control of Series Elastic Actuators</i> , pp. 6291-6298.		
Ames, Aaron D.	Texas A&M Univ	
Holley, James	NASA	
17:20-17:40	WeC02.5	
<i>An Innovative Approach for Identifying Boundaries of a Basin of Attraction for a Dynamical System Using Monte Carlo Techniques and Lyapunov Exponents</i> , pp. 6299-6304.		
Armiyoon, Ali Reza	Univ. of Manitoba	
Wu, Qiong	Univ. of Manitoba	
17:40-18:00	WeC02.6	
<i>Cone-Copositivity for Absolute Stability of Lur'e Systems</i> , pp. 6305-6310.		
Iervolino, Raffaele	Univ. di Napoli Federico li	
Vasca, Francesco	Univ. of Sannio	
WeC03	Salon H	
Constrained Control (Regular Session)		
Chair: Marchand, Nicolas	GIPSA-lab	
Co-Chair: Monnigmann, Martin	Ruhr-Univ. Bochum	
16:00-16:20	WeC03.1	
<i>Further Results on the Maximal Contractively Invariant Set of Discrete-Time Linear Systems with Multiple Inputs Subject to Actuator Saturation</i> , pp. 6311-6316.		
Li, Yuanlong	Shanghai Jiao Tong Univ	
Lin, Zongli	Univ. of Virginia	
16:20-16:40	WeC03.2	
<i>A Polynomial Approach to Nonlinear State Feedback Stabilization of Saturated Linear Systems</i> , pp. 6317-6322.		
Valmorbida, Giorgio	Univ. of Oxford	
Zaccarian, Luca	LAAS-CNRS and Univ. of Trento	
Tarbouriech, Sophie	LAAS-CNRS	
Queinnec, Isabelle	LAAS-CNRS	
Papachristodoulou, Antonis	Univ. of Oxford	
16:40-17:00	WeC03.3	
<i>On General Relations between Null-Controllable and Controlled Invariant Sets for Linear Constrained Systems</i> , pp. 6323-6328.		
Schulze Darup, Moritz	Ruhr-Univ. Bochum	
Monnigmann, Martin	Ruhr-Univ. Bochum	
17:00-17:20	WeC03.4	
<i>Linear Systems with Conical Constraints and Convex Lyapunov Functions in the Framework of Convex Processes (I)</i> , pp. 6329-6334.		
Goebel, Rafal	Loyola Univ. Chicago	
17:20-17:40	WeC03.5	
<i>A PID-Type Global Regulator with Simple Tuning for Robot Manipulators with Bounded Inputs</i> , pp. 6335-6341.		
Mendoza, Marco	Univ. Autonoma De San Luis Potosi	
Zavala-Rio, Arturo	Inst. Potosino De Investigacion Cientifica Ytecnologica	
Santibanez, Victor	Inst. Tecnologico De La Laguna	
Reyes, Fernando	Benemerita Univ. Autonoma De Puebla	
17:40-18:00	WeC03.6	
<i>Bounded Control of a General Extended Chained Form Systems</i> , pp. 6342-6347.		
Hably, Ahmad	GIPSA-Lab	
Marchand, Nicolas	GIPSA-Lab	

WeC04	Salon I	WeC05.4
Computational Methods II (Regular Session)		
Chair: Arcak, Murat	Univ. of California, Berkeley	
Co-Chair: Sankaranarayanan, Sriram	Univ. of Colorado, Boulder	
16:00-16:20	WeC04.1	17:00-17:20
<i>Iterative Computation of Polyhedral Invariants Sets for Polynomial Dynamical Systems</i> , pp. 6348-6353.		
Mohamed Amin, Ben Sassi	Univ. of Colorado, Boulder	Gaussian Approximation of Non-Linear Measurement Models on Lie Groups, pp. 6401-6406.
Girard, Antoine	Univ. Joseph Fourier	Chirikjian, Gregory
Sankaranarayanan, Sriram	Univ. of Colorado, Boulder	Kobilarov, Marin
Johns Hopkins Univ		Johns Hopkins Univ
Johns Hopkins Univ		Johns Hopkins Univ
16:20-16:40	WeC04.2	17:20-17:40
<i>Near-Ideal Behavior of Compressed Sensing Algorithms</i> , pp. 6354-6357.		
Ahsen, Mehmet Eren	Univ. of Texas at Dallas	WeC05.5
Vidyasagar, Mathukumalli	Univ. of Texas at Dallas	<i>Nearest Singular Descriptor System Having Impulsive Initial-Conditions</i> , pp. 6407-6412.
		Kothiyari, Ashish
		Kalaimani, Rachel Kalpana
		Belur, Madhu N.
		Indian Inst. of Tech. Bombay
		Indian Inst. of Tech. Bombay
		Indian Inst. of Tech. Bombay
16:40-17:00	WeC04.3	17:40-18:00
<i>Trajectory-Based Reachability Analysis of Switched Nonlinear Systems Using Matrix Measures</i> , pp. 6358-6364.		
Maidens, John	Univ. of California, Berkeley	WeC05.6
Arcak, Murat	Univ. of California, Berkeley	<i>Auxiliary Signal Design for Failure Detection in High Index Differential-Algebraic Equations</i> , pp. 6413-6418.
		Scott, Jason
		Campbell, Stephen L
17:00-17:20	WeC04.4	North Carolina State Univ
<i>The Disturbance Decoupling Problem for Continuous Piecewise Affine Systems</i> , pp. 6365-6370.		North Carolina State Univ
Everts, Anneros	Univ. of Groningen	
Camlibel, M. Kanat	Univ. of Groningen	
17:20-17:40	WeC04.5	
<i>A Numerical Method for State Estimation of Continuous Time Markov Jump Linear Systems</i> , pp. 6371-6376.		
Costa, Eduardo F.	Univ. Sao Paulo, Inst. De Ciencias Matematicas E Decomputaçā	WeC06.1
de Saporta, Benoite	Univ. Bordeaux	<i>Selling Robustness Margins: A Framework for Optimizing Reserve Capacities for Linear Systems</i> , pp. 6419-6424.
		Zhang, Xiaojing
		Kamgarpour, Maryam
		Goulart, Paul J.
		Lygeros, John
		ETH Zurich
		Swiss Federal Inst. of Tech
		ETH Zurich
		ETH Zurich
17:40-18:00	WeC04.6	
<i>Symplectic Mobius Integrators for LQ Optimal Control Problems</i> , pp. 6377-6382.		
Zhuk, Sergiy	IBM	WeC06.2
Frank, Jason	Utrecht Univ	<i>Individual Risk in Mean Field Control with Application to Automated Demand Response (I)</i> , pp. 6425-6432.
		Chen, Yue
		Busic, Ana
		Meyn, Sean P.
		Univ. of Florida
		Inria and École Normale Supérieure
		Univ. of Florida
WeC05	Salon J	16:40-17:00
Differential-Algebraic Systems (Regular Session)		
Chair: Macchelli, Alessandro	Univ. of Bologna - Italy	WeC06.3
Co-Chair: Chirikjian, Gregory	Johns Hopkins Univ.	<i>Distributional Analysis for Model Predictive Deferrable Load Control (I)</i> , pp. 6433-6438.
		Chen, Niangjun
		Gan, Lingwen
		Low, Steven H.
		Wierman, Adam
		California Inst. of Tech
		California Inst. of Tech
		California Inst. of Tech
16:00-16:20	WeC05.1	California Inst. of Tech
<i>Observer Design for a Ternary Distillation Column with Side Stream</i> , pp. 6383-6388.		
Afri, Chouaib	Univ. Claude Bernard Lyon 1	WeC06.4
Nadri, Madiha	Univ. Claude Bernard Lyon 1	<i>Capturing Aggregate Flexibility in Demand Response (I)</i> , pp. 6439-6445.
Dufour, Pascal	Univ. Claude Bernard Lyon 1	Alizadeh, Mahnoosh
		Scaglione, Anna
		Goldsmith, Andrea
		Kesidis, George
		Stanford Univ
		UC Davis
		Stanford Univ
16:20-16:40	WeC05.2	Pennsylvania State Univ
<i>Computation of State Reachable Points of Descriptor Systems</i> , pp. 6389-6394.		
Datta, Subashish	Tech. Univ. Berlin	17:20-17:40
Mehrmann, Volker	Tech. Univ. Berlin	WeC06.5
		<i>Stochastic Dynamic Pricing: Utilizing Demand Response in an Adaptive Manner</i> , pp. 6446-6451.
		Tang, Wenyuan
		Jain, Rahul
		Rajagopal, Ram
		Univ. of Southern California
		Univ. of Southern California
		Stanford Univ
16:40-17:00	WeC05.3	
<i>Interconnection of Port-Hamiltonian Systems Via Contact Structures. an Application to Macro-Economic Systems</i> , pp. 6395-6400.		
Macchelli, Alessandro	Univ. of Bologna - Italy	

17:40-18:00	WeC06.6	Salon 8
<i>Competitive Equilibrium in Electricity Markets with Heterogeneous Users and Price Fluctuation Penalty (I)</i> , pp. 6452-6458.		
Wei, Ermin	Northwestern Univ	Univ. de Lorraine
Malekian, Azarakhsh	Univ. of Toronto	Univ. Federal Do Rio Grande Do Sul
Ozdaglar, Asu	MIT	
WeC07	Salon 7	
Transportation Networks (Regular Session)		
Chair: Alessandri, Angelo	Univ. of Genoa	Uppsala Univ
Co-Chair: Work, Daniel B.	Univ. of Illinois at Urbana champaign	Uppsala Univ
16:00-16:20	WeC07.1	WeC08.1
<i>Robust Predictive Control for the Management of Multi-Echelon Distribution Chains</i> , pp. 6459-6464.		
Alessandri, Angelo	Univ. of Genoa	Linköping Univ
Gaggero, Mauro	National Res. Council of Italy	
Tonelli, Flavio	Univ. of Genoa	
16:20-16:40	WeC07.2	WeC08.2
<i>Scheduling and Cooperative Control of Electric Vehicles' Charging at Highway Service Stations</i> , pp. 6465-6471.		
Gusrialdi, Azwirman	Univ. of Central Florida	
Qu, Zhihua	Univ. of Central Florida	
Simaan, Marwan A.	Univ. of Central Florida	
16:40-17:00	WeC07.3	WeC08.3
<i>Optimization Strategies for Resilient Freight Transport and Sustainability</i> , pp. 6472-6477.		
Abadi, Afshin	Univ. of Southern California	Univ. of New South Wales
Ioannou, Petros A.	Univ. of Southern California	
17:00-17:20	WeC07.4	WeC08.4
<i>Analysis of Price of Anarchy in Heterogeneous Price-Sensitive Populations</i> , pp. 6478-6483.		
Wang, Xuehe	Nanyang Tech. Univ	Pol. Di Milano
Xiao, Nan	Singapore MIT Alliance for Res. and Tech. Centre	Pol. Di Milano
Xie, Lihua	Nanyang Tech. Univ	Pol. Di Milano
Fazzoli, Emilio	Massachusetts Inst. of Tech	
Rus, Daniela	Massachusetts Inst. of Tech	
17:20-17:40	WeC07.5	WeC08.5
<i>A Distributed Local Kalman Consensus Filter for Traffic Estimation</i> , pp. 6484-6491.		
Sun, Ye	Univ. of Illinois at Urbana-Champaign	
Work, Daniel B.	Univ. of Illinois at Urbana-Champaign	
17:40-18:00	WeC07.6	WeC08.6
<i>Pressure Releasing Policy in Traffic Signal Control with Finite Queue Capacities</i> , pp. 6492-6497.		
Xiao, Nan	Singapore MIT Alliance for Res. and Tech. Centre	Kyoto Univ
Fazzoli, Emilio	Massachusetts Inst. of Tech	Kyoto Univ
Li, Yitong	Singapore MIT Alliance for Res. and Tech. Centre	Kyoto Univ
Wang, Yu	Nanyang Tech. Univ	
Wang, Danwei	Nanyang Tech. Univ	
WeC08	Salon 8	
Nonlinear System Identification (Regular Session)		
Chair: Bloch, Gerard		Univ. de Lorraine
Co-Chair: Bazanella, Alexandre S.		Univ. Federal Do Rio Grande Do Sul
16:00-16:20	WeC08.1	
<i>Piecewise Smooth System Identification in Reproducing Kernel Hilbert Space</i> , pp. 6498-6503.		
Lauer, Fabien	Univ. De Lorraine, LORIA, CNRS, Inria	
Bloch, Gerard	Univ. De Lorraine	
16:20-16:40	WeC08.2	
<i>Identification of Jump Markov Linear Models Using Particle Filters</i> , pp. 6504-6509.		
Svensson, Andreas	Uppsala Univ	
Schön, Thomas (Bo)	Uppsala Univ	
Lindsten, Fredrik	Linköping Univ	
16:40-17:00	WeC08.3	
<i>An Approach to Stochastic System Identification in Riemannian Manifolds</i> , pp. 6510-6515.		
Solo, Victor	Univ. of New South Wales	
17:00-17:20	WeC08.4	
<i>A Novel Randomized Approach to Nonlinear System Identification</i> , pp. 6516-6521.		
Falsone, Alessandro	Pol. Di Milano	
Piroddi, Luigi	Pol. Di Milano	
Prandini, Maria	Pol. Di Milano	
17:20-17:40	WeC08.5	
<i>Identifiability and Excitation of a Class of Rational Systems</i> , pp. 6522-6527.		
Bazanella, Alexandre S.	Univ. Federal Do Rio Grande Do Sul	
Gevers, Michel	Univ. Catholique De Louvain, and Vrije Univ. Brussel	
Coutinho, Daniel	Univ. Federal De Santa Catarina	
Rui, Rafael	Univ. Federal Do Rio Grande Do Sul	
17:40-18:00	WeC08.6	
<i>Error Bound Analysis and Optimal Construction of Non-Parametric PWA Models</i> , pp. 6528-6535.		
Fujimoto, Yusuke	Kyoto Univ	
Maruta, Ichiro	Kyoto Univ	
Sugie, Toshiharu	Kyoto Univ	
WeC09	Salon 9	
Fault Detection II (Regular Session)		
Chair: Keliris, Christodoulos	Univ. of Cyprus	
Co-Chair: Hadjiliadis, Olympia	City Univ. of New York	
16:00-16:20	WeC09.1	
<i>A Distributed Fault Diagnosis Approach Utilizing Adaptive Approximation for a Class of Interconnected Continuous-Time Nonlinear Systems</i> , pp. 6536-6541.		
Keliris, Christodoulos	Univ. of Cyprus	
Polycarpou, Marios M.	Univ. of Cyprus	
Parisini, Thomas	Imperial Coll. & Univ. of Trieste	
16:20-16:40	WeC09.2	
<i>Fault Detection of Boolean Control Networks</i> , pp. 6542-6547.		

Fornasini, Ettore	Univ. Di Padova	Univ. of Illinois
Valcher, Maria Elena	Univ. Di Padova	
16:40-17:00	WeC09.3	
<i>Distributed Fault Detection in Interconnected Nonlinear Uncertain Systems</i> , pp. 6548-6553.		
Khalili, Mohsen	Wright State Univ	ETH Zurich
Zhang, Xiaodong	Wright State Univ	ETH Zurich
17:00-17:20	WeC09.4	
<i>H- /H∞ Fault Detection Observer for Switched Systems</i> , pp. 6554-6559.		
Farhat, Ahmad	Univ. Grenoble Alpes, GIPSA-Lab	Univ. of California, Santa Barbara
Koenig, Damien	Grenoble-INP	ETH Zurich
17:20-17:40	WeC09.5	
<i>Fault Detection and Isolation of Vehicle Dynamics Sensors and Actuators for an Overactuated X-By-Wire Vehicle</i> , pp. 6560-6566.		
Ho, Lok Man	German Aerospace Center (DLR)	Univ. of California, Santa Barbara
Ossmann, Daniel	German Aerospace Center (DLR)	Univ. of California, Santa Barbara
17:40-18:00	WeC09.6	
<i>Detection Problem with Post-Change Drift Uncertainty</i> , pp. 6567-6572.		
Yang, Heng	City Univ. of New York	Univ. of California, Riverside
Hadjiliadis, Olympia	City Univ. of New York	MIT
WeC10	Salon 10	Georgia 1
Markov Processes (Regular Session)		
Chair: Beck, Carolyn L.	Univ. of Illinois, Urbana-Champaign	
Co-Chair: Jain, Rahul	Univ. of Southern California	
16:00-16:20	WeC10.1	
<i>Empirical Policy Iteration for Approximate Dynamic Programming</i> , pp. 6573-6578.		
Haskell, William	Univ. of Southern California	
Jain, Rahul	Univ. of Southern California	
Kalathil, Dileep	Univ. of Southern California	
16:20-16:40	WeC10.2	
<i>Scheduling in Time-Correlated Wireless Networks with Imperfect CSI and Stringent Constraint</i> , pp. 6579-6584.		
Ouyang, Wenzhuo	The Ohio State Univ	
Eryilmaz, Atilla	The Ohio State Univ	
Shroff, Ness B.	The Ohio State Univ	
16:40-17:00	WeC10.3	
<i>H-2 Filter Design through Multi-Simplex Modeling for Discrete-Time Markov Jump Linear Systems with Partly Unknown Transition Probability Matrix</i> , pp. 6585-6590.		
Moraes, Cecilia	Univ. of Campinas - UNICAMP	
Braga, Marcio F.	Univ. of Campinas - UNICAMP	
Lacerda, Marcio J.	Univ. of Campinas - UNICAMP	
Oliveira, Ricardo C. L. F.	Univ. of Campinas - UNICAMP	
Peres, Pedro L. D.	Univ. of Campinas - UNICAMP	
17:00-17:20	WeC10.4	
<i>Aggregation of Markov Chains: An Analysis of Deterministic Annealing Based Methods</i> , pp. 6591-6596.		
Xu, Yunwen	Univ. of Illinois at Urbana-Champaign	
Beck, Carolyn L.	Univ. of Illinois, Urbana-Champaign	
17:20-17:40	WeC10.5	
<i>Approximation of Constrained Average Cost Markov Control Processes</i> , pp. 6597-6602.		
Sutter, Tobias	ETH Zurich	
Mohajerin Esfahani, Peyman	ETH Zurich	
Lygeros, John	ETH Zurich	
17:40-18:00	WeC10.6	
<i>Robotic Surveillance and Markov Chains with Minimal First Passage Time</i> , pp. 6603-6608.		
Agharkar, Pushkarini	Univ. of California, Santa Barbara	
Patel, Rushabh	Univ. of California, Santa Barbara	
Bullo, Francesco	Univ. of California, Santa Barbara	
WeC11		Georgia 1
Optimization Algorithms IV (Regular Session)		
Chair: Chen, Yiming	Univ. of California, Riverside	
Co-Chair: Permenter, Frank	MIT	
16:00-16:20	WeC11.1	
<i>High Reliability Integer Ambiguity Resolution of 6DOF RTK GPS/INS</i> , pp. 6609-6614.		
Chen, Yiming	Univ. of California, Riverside	
Zhao, Sheng	Univ. of California, Riverside	
Zheng, Dongfang	Univ. of California, Riverside	
Farrell, Jay A.	Univ. of California, Riverside	
16:20-16:40	WeC11.2	
<i>Basis Selection for SOS Programs Via Facial Reduction and Polyhedral Approximations</i> , pp. 6615-6620.		
Permenter, Frank	Massachusetts Inst. of Tech	
Parrilo, Pablo A.	Massachusetts Inst. of Tech	
16:40-17:00	WeC11.3	
<i>A Split-Bernstein Approach to Chance Constrained Programs</i> , pp. 6621-6626.		
Zhao, Zinan	Univ. of Florida	
Kumar, Mrinal	Univ. of Florida	
17:00-17:20	WeC11.4	
<i>Time-Average Optimization with Nonconvex Decision Set and Its Convergence</i> , pp. 6627-6634.		
Supittayapornpong, Sucha	Univ. of Southern California	
Huang, Longbo	Tsinghua Univ	
Neely, Michael J.	Univ. of Southern California	
17:20-17:40	WeC11.5	
<i>Cloud-Based Optimization: A Quasi-Decentralized Approach to Multi-Agent Coordination</i> , pp. 6635-6640.		
Hale, Matthew	Georgia Inst. of Tech	
Egerstedt, Magnus	Georgia Inst. of Tech	
17:40-18:00	WeC11.6	
<i>Verifiable Frequency-Limited Adaptive Control Performance Based on Linear Matrix Inequalities</i> , pp. 6641-6646.		
Fravolini, Mario Luca	Univ. Di Perugia	
Yucelen, Tansel	Missouri Univ. of Science & Tech	
Albattat, Ali	Missouri Univ. of Science & Tech	
Wagner, Daniel	Missouri Univ. of Science & Tech	
Valigi, Paolo	Univ. Di Perugia	

WeC12	Georgia 2	WeC13.3
Optimal Control IV (Regular Session)		
Chair: Kang, Wei	Naval Postgraduate School	Ghent Univ. Wolfson Coll. Cambridge
Co-Chair: Dey, Biswadip	Univ. of Maryland	Univ. of Cambridge
16:00-16:20	WeC12.1	16:40-17:00
<i>Partial-State Stabilization and Optimal Feedback Control</i> , pp. 6647-6652.		
L'Afflitto, Andrea	Georgia Inst. of Tech	Hartley, Edward N.
Haddad, Wassim M.	Georgia Inst. of Tech	Maciejowski, Jan M.
Bakolas, Efstathios	The Univ. of Texas at Austin	De Keyser, Robin M.C.
16:20-16:40	WeC12.2	17:00-17:20
<i>Bounds for Approximate Dynamic Programming Based on String Optimization and Curvature</i> , pp. 6653-6658.		
Liu, Yajing	Colorado State Univ	Kalabic, Uros V.
Chong, Edwin K. P.	Colorado State Univ	Kolmanovsky, Ilya V.
Pezeshki, Ali	Colorado State Univ	
Moran, Bill	The Univ. of Melbourne	
16:40-17:00	WeC12.3	17:20-17:40
<i>Generating Function Approach to Linear Quadratic Optimal Control Problem with Constraints on the State</i> , pp. 6659-6664.		
Chen, Dijian	Nagoya Univ	Bayer, Florian Anton
Fujimoto, Kenji	Kyoto Univ	Allgöwer, Frank
Suzuki, Tatsuya	Nagoya Univ	
17:00-17:20	WeC12.4	17:40-18:00
<i>Sum of Imaginary Parts and Performance Limitation of the LQG Problem for SIMO Systems</i> , pp. 6665-6670.		
Fukamachi, Soichiro	The Univ. of Tokyo	Weiss, Avishai
Kanno, Masaaki	Niigata Univ	Di Cairano, Stefano
Hara, Shinji	The Univ. of Tokyo	
17:20-17:40	WeC12.5	
<i>Feasibility of the Galerkin Optimal Control Method</i> , pp. 6671-6676.		
Boucher, Randy	Naval Postgraduate School	Zhang, Renyuan
Kang, Wei	Naval Postgraduate School	
Gong, Qi	Univ. of California, Santa Cruz	Cai, Kai
17:40-18:00	WeC12.6	Wonham, W. Murray
<i>Reconstructing Trajectories from the Moments of Occupation Measures</i> , pp. 6677-6682.		
Claeys, Mathieu	Univ. of Cambridge	
Sepulchre, Rodolphe J.	Univ. of Cambridge	
WeC13	Atrium 1	WeC14
Predictive Control for Linear Systems II (Regular Session)		
Chair: Tran-Cao, Tri	Nanyang Tech. Univ.	Olympic 1
Co-Chair: De Keyser, Robin M.C.	Univ. of Gent	
16:00-16:20	WeC13.1	
<i>Barrier Function Based Linear Model Predictive Control with Polytopic Terminal Sets</i> , pp. 6683-6688.		
Feller, Christian	Univ. of Stuttgart	
Ebenbauer, Christian	Univ. of Stuttgart	
16:20-16:40	WeC13.2	
<i>Model Predictive Control Via Quadratic Dissipativity Constraint</i> , pp. 6689-6694.		
Tran-Cao, Tri	Nanyang Tech. Univ	
Ling, Keck-Voon	Nanyang Tech. Univ	
Maciejowski, Jan M.	Univ. of Cambridge	
16:40-17:00	WeC13.3	
<i>Certification of a Class of Industrial Predictive Controllers without Terminal Conditions</i> , pp. 6695-6700.		
Dutta, Abhishek		
Hartley, Edward N.		
Maciejowski, Jan M.		
De Keyser, Robin M.C.		
17:00-17:20	WeC13.4	
<i>Reference and Command Governors for Systems with Slowly Time-Varying References and Time-Dependent Constraints</i> , pp. 6701-6706.		
Kalabic, Uros V.	Univ. of Michigan	
Kolmanovsky, Ilya V.	Univ. of Michigan	
17:20-17:40	WeC13.5	
<i>Robust Economic Model Predictive Control with Linear Average Constraints</i> , pp. 6707-6712.		
Bayer, Florian Anton	Univ. of Stuttgart	
Allgöwer, Frank	Univ. of Stuttgart	
17:40-18:00	WeC13.6	
<i>Robust Dual Control MPC with Guaranteed Constraint Satisfaction</i> , pp. 6713-6718.		
Weiss, Avishai	Mitsubishi Electric Res. Lab	
Di Cairano, Stefano	Mitsubishi Electric Res. Lab	
WeC14		
Discrete-Event Systems (Regular Session)		
Chair: Wardi, Yorai	Georgia Inst. of Tech.	
Co-Chair: Cai, Kai	Osaka City Univ.	
16:00-16:20	WeC14.1	
<i>Delay-Robustness in Distributed Control of Timed Discrete-Event Systems Based on Supervisor Localization</i> , pp. 6719-6724.		
Zhang, Renyuan	School of Automation, Northwestern Pol. Univ	
Cai, Kai	Osaka City Univ	
Wonham, W. Murray	Univ. of Toronto	
16:20-16:40	WeC14.2	
<i>Initial Marking Estimation in Labeled Petri Nets in a Probabilistic Setting</i> , pp. 6725-6730.		
Cabasino, Maria Paola	Univ. of Cagliari	
Hadjicostis, Christoforos	Univ. of Cyprus	
Seatzu, Carla	Univ. of Cagliari	
16:40-17:00	WeC14.3	
<i>On Computing Indistinguishable States of Nondeterministic Finite Automata with Partially Observable Transitions</i> , pp. 6731-6736.		
Sears, David	Queen's Univ	
Rudie, Karen	Queen's Univ	
17:00-17:20	WeC14.4	
<i>Feedback Control of Nondeterministic Input/Output Automata</i> , pp. 6737-6743.		
Schuh, Melanie	Ruhr Univ. Bochum	
Lunze, Jan	Ruhr-Univ. Bochum	
17:20-17:40	WeC14.5	
<i>Constructing (Bi)Similar Finite State Abstractions Using Asynchronous L-Complete Approximations</i> , pp. 6744-6751.		
Schmuck, Anne-Kathrin	Tech. Univ. Berlin	
Raisch, Joerg	Tech. Univ. Berlin	

17:40-18:00	WeC14.6	Poulsen, Niels Kjølstad Niemann, Henrik Utzen, Christer Jorgensen, John Bagterp	Tech. Univ. of Denmark Tech. Univ. of Denmark GEA Process Engineering A/S Tech. Univ. of Denmark
<i>Infinitesimal Perturbation Analysis of Stochastic Hybrid Systems: Application to Congestion Management in Traffic-Light Intersections, pp. 6752-6757.</i>			
Wardi, Yorai Seatzu, Carla	Georgia Inst. of Tech Univ. of Cagliari		
WeC15 Atrium 2			
Neural Networks and Fuzzy Systems (Regular Session)			
Chair: Thumati, Balaje Co-Chair: Zheng, Wei Xing	The Boeing Company Univ. of Western Sydney		
16:00-16:20	WeC15.1	Lin, Yi-Ting Wu, Jim-Wei Lo, Yu-Ting Fu, Li-Chen Liu, Wei-Chih	National Taiwan Univ National Taiwan Univ National Taiwan Univ National Taiwan Univ National Taiwan Univ
<i>A Fault Prediction Scheme for Takagi-Sugeno Fuzzy Systems with Immeasurable Premise Variables and Disturbance, pp. 6758-6763.</i>			
Thumati, Balaje Jagannathan, Sarangapani	The Boeing Company Missouri Univ. of Science & Tech		
16:20-16:40	WeC15.2	Gao, Jiayao You, Fengqi	Northwestern Univ Northwestern Univ
<i>Non-Fragile Output Feedback Control Design of Uncertain Takagi-Sugeno Fuzzy Systems, pp. 6764-6769.</i>			
Yoneyama, Jun	Aoyama Gakuin Univ		
16:40-17:00	WeC15.3		
<i>Attitude Tracking of Mars Entry Vehicles Via Fuzzy Sampled-Data Control Approach, pp. 6770-6775.</i>			
Wang, Zi-Peng Wu, Huai-Ning Jiang, Bo Guo, Lei	Beihang Univ Beihang Univ Beihang Univ Beihang Univ		
17:00-17:20	WeC15.4		
<i>Near Optimal Boundary Control of Distributed Parameter Systems Modeled As Parabolic PDEs by Using Finite Difference Neural Network Approximation, pp. 6776-6781.</i>			
Talaei, Behzad Xu, Hao Jagannathan, Sarangapani	Missouri Univ. of Science & Tech Texas A&M Univ. - Corp. Christi Missouri Univ. of Science & Tech		
17:20-17:40	WeC15.5		
<i>Global Exponential Stabilization of Neural Networks with Time Delay Via Impulsive Control, pp. 6782-6787.</i>			
Chen, W.-H. Lu, X. Zheng, Weixing	Guangxi Univ Guangxi Univ Univ. of Western Sydney		
17:40-18:00	WeC15.6		
<i>Polynomial Observer Design for Unknown Inputs Polynomial Fuzzy Systems: A Sum of Squares Approach, pp. 6788-6793.</i>			
Chibani, Ali Chadli, Mohammed Belhaouane, Mohamed Moez Benhadj Braiek, Naceur	Ec. Pol. De Tunisie Univ. De Picardie-Jules Verne Ec. Pol. De Tunisie Ec. Pol. De Tunisie		
WeC16 Olympic 2			
Modeling II (Regular Session)			
Chair: Fu, Li-Chen Co-Chair: Halder, Abhishek	National Taiwan Univ. Texas A&M Univ.		
16:00-16:20	WeC16.1		
<i>Economic Optimization of Spray Dryer Operation Using Nonlinear Model Predictive Control, pp. 6794-6800.</i>			
Petersen, Lars Norbert	Tech. Univ. of Denmark and GEA Process Engineering		
WeC17 Atrium 3			
Networked Control Systems III (Regular Session)			
Chair: Litz, Lothar Co-Chair: Dimarogonas, Dimos V.	Univ. of Kaiserslautern Royal Inst. of Tech.		
16:00-16:20	WeC17.1		
<i>Modelling and Control for Web Real-Time Communication, pp. 6824-6829.</i>			
Carlucci, Gaetano De Cicco, Luca Mascolo, Saverio	Pol. Di Bari Pol. Di Bari Pol. Di Bari		
16:20-16:40	WeC17.2		
<i>Set Target Aggregation of Multiple Mechanical Systems, pp. 6830-6835.</i>			
Meng, Ziyang Yang, Tao Shi, Guodong Dimarogonas, Dimos V. Hong, Yiguang Johansson, Karl Henrik	Royal Inst. of Tech Royal Inst. of Tech The Australian National Univ Royal Inst. of Tech Chinese Acad. of Sciences Royal Inst. of Tech		
16:40-17:00	WeC17.3		
<i>Learning Efficient Correlated Equilibria, pp. 6836-6841.</i>			
Borowski, Holly Marden, Jason Shamma, Jeff S.	Univ. of Colorado Boulder Univ. of Colorado at Boulder Georgia Inst. of Tech		

17:00-17:20	WeC17.4	
<i>Control Design in a Distributed WNCS Using Energy Optimal Scheduled Medium Access</i> , pp. 6842-6848.		
Haupt, Andreas	Univ. of Kaiserslautern	
Tognetti, Eduardo Stockler	Univ. of Brasilia	
Bauchspies, Adolfo	Univ. of Brasilia	
Litz, Lothar	Univ. of Kaiserslautern	
17:20-17:40	WeC17.5	
<i>A Down-Sampled Controller to Reduce Network Usage with Guaranteed Closed-Loop Performance</i> , pp. 6849-6856.		
Araujo, Jose	Royal Inst. of Tech	
Teixeira, André	Royal Inst. of Tech	
Henriksson, Erik	Royal Inst. of Tech	
Johansson, Karl Henrik	Royal Inst. of Tech	
17:40-18:00	WeC17.6	
<i>Convex Synthesis and Limitations of Mean-Square Stabilizing Controllers for MIMO Systems Over Packet Drop Networks</i> , pp. 6857-6862.		
Rich, Matt	Iowa State Univ	
Elia, Nicola	Iowa State Univ	
WeC18	Olympic 3	
Sensor Networks (Regular Session)		
Chair: Zavlanos, Michael M.	Duke Univ.	
Co-Chair: Mostofi, Yasamin	Univ. of California Santa Barbara	
16:00-16:20	WeC18.1	
<i>Communication-Aware Coverage Control for Robotic Sensor Networks</i> , pp. 6863-6868.		
Kantaros, Yiannis	Duke Univ	
Zavlanos, Michael M.	Duke Univ	
16:20-16:40	WeC18.2	
<i>An On-Line Sensor Selection Algorithm for SPRT with Multiple Sensors</i> , pp. 6869-6874.		
Bai, Cheng-Zong	Univ. of Notre Dame	
Gupta, Vijay	Univ. of Notre Dame	
16:40-17:00	WeC18.3	
<i>Joint Estimation and Localization in Sensor Networks</i> , pp. 6875-6882.		
Atanasov, Nikolay	Univ. of Pennsylvania	
Tron, Roberto	Univ. of Pennsylvania	
Preciado, Victor M.	Univ. of Pennsylvania	
Pappas, George J.	Univ. of Pennsylvania	
17:00-17:20	WeC18.4	
<i>Distributed Time Synchronization under Bounded Noise in Wireless Sensor Networks</i> , pp. 6883-6888.		
He, Jianping	Zhejiang Univ	
Duan, Xiaoming	Zhejiang Univ	
Cheng, Peng	Zhengjiang Univ	
Shi, Ling	Hong Kong Univ. of Sci. & Tech	
Cai, Lin	Univ. of Victoria	
17:20-17:40	WeC18.5	
<i>Dynamic Context-Aware Sensor Selection for Sequential Hypothesis Testing</i> , pp. 6889-6894.		
Virani, Nurali	Pennsylvania State Univ	
Lee, Ji-Woong	Pennsylvania State Univ	
Phoha, Shashi	Pennsylvania State Univ	
Ray, Asok	Pennsylvania State Univ	
17:40-18:00	WeC18.6	
<i>An Efficient Clustering and Path Planning Strategy in Sensor Networks for Data Collection Based on Space-Filling Curves</i> , pp. 6895-6901.		
Yan, Yuan	Univ. of California, Santa Barbara	
Mostofi, Yasamin	Univ. of California, Santa Barbara	
WeC19	Plaza 1	
Fractional-Order Systems (Regular Session)		
Chair: Wang, Yong	Univ. of Sci. and Tech. of China	
Co-Chair: N'Doye, Ibrahima	King Abdullah Univ. of Science and Tech. (KAUST)	
16:00-16:20	WeC19.1	
<i>Tracking Differentiator Based Fractional Order Model Reference Adaptive Control: The $1 < \text{Alpha} < 2$ Case</i> , pp. 6902-6907.		
Wei, Yiheng	Univ. of Sci. and Tech. of China	
Hu, Yangsheng	Univ. of Sci. and Tech. of China	
Song, Lan	Univ. of Sci. and Tech. of China	
Wang, Yong	Univ. of Sci. and Tech. of China	
16:20-16:40	WeC19.2	
<i>Representation and LQR of Exact Fractional Order Systems</i> , pp. 6908-6913.		
Liang, Shu	Univ. of Sci. and Tech. of China	
Wang, Sheng-Guo	Univ. of North Carolina, Charlotte	
Wang, Yong	Univ. of Sci. and Tech. of China	
16:40-17:00	WeC19.3	
<i>Positive Real Lemmas for Fractional Order Systems</i> , pp. 6914-6919.		
Zhou, Xi	Univ. of Sci. and Tech. of China	
Wei, Yiheng	Univ. of Sci. and Tech. of China	
Liang, Shu	Univ. of Sci. and Tech. of China	
Wang, Yong	Univ. of Sci. and Tech. of China	
17:00-17:20	WeC19.4	
<i>Adaptive Mittag-Leffler Stabilization of Commensurate Fractional-Order Nonlinear Systems</i> , pp. 6920-6926.		
Ding, Dongsheng	Zhejiang Univ	
Qi, Donglian	Zhejiang Univ	
Meng, Yao	Zhejiang Univ	
Xu, Li	Zhejiang Univ	
17:20-17:40	WeC19.5	
<i>H-Infinity Adaptive Observer Design and Parameter Identification for a Class of Nonlinear Fractional-Order Systems</i> , pp. 6927-6932.		
N'Doye, Ibrahima	King Abdullah Univ. of Science and Tech. (KAUST)	
Voos, Holger	Univ. of Luxembourg	
Laleg Kirati, Taous Meriem	King Abdullah Univ. of Science and Tech. (KAUST)	
Darouach, Mohamed	Univ. De Lorraine	
17:40-18:00	WeC19.6	
<i>Free-Model Fractional-Order Absolutely Continuous Sliding Mode Control for Euler-Lagrange Systems</i> , pp. 6933-6938.		
Muñoz Vázquez, Aldo Jonathan	CINVESTAV	
Parra-Vega, Vicente	CINVESTAV	
Sanchez, Anand	CINVESTAV	

WeC20	Plaza 2		
Agents and Autonomous Systems III (Regular Session)			
Chair: Stipanovic, Dusan M.	Univ. of Illinois, Urbana-Champaign	Efendic, Hajrudin	Johannes Kepler Univ. Linz
Co-Chair: Matei, Ion	Palo Alto Res. Center	Freckmann, Guido	Univ. of Ulm
16:00-16:20	WeC20.1	Del Re, Luigi	Johannes Kepler Univ. Linz
<i>Active-Passive Networked Multiagent Systems</i> , pp. 6939-6944.			
Yucelen, Tansel	Missouri Univ. of Science & Tech	16:40-17:00	WeC21.3
Peterson, John Daniel	Missouri Univ. of Science & Tech	<i>Domain of Attraction Computation for Tumor Dynamics</i> , pp. 6987-6992.	
16:20-16:40	WeC20.2	Doban, Alina Ionela	Eindhoven Univ. of Tech
<i>Towards Background Flow Based AUV Localization</i> , pp. 6945-6950.		Lazar, Mircea	Eindhoven Univ. of Tech
Song, Zhuoyuan	Univ. of Florida		
Mohseni, Kamran	Univ. of Florida	17:00-17:20	WeC21.4
16:40-17:00	WeC20.3	<i>Observer-Based Controller for Microrobot in Pulsatile Blood Flow</i> , pp. 6993-6998.	
<i>An Extension of the Method of Multipliers for Distributed Nonlinear Programming</i> , pp. 6951-6956.		Sadelli, Lounis	Univ. of Orleans
Matei, Ion	Palo Alto Res. Center	Fruchard, Matthieu	Univ. of Orleans
Baras, John S.	Univ. of Maryland	Ferreira, Antoine	INSA Centre Val De Loire
Nabi-Abdolyousefi, Marzieh	Palo Alto Res. Center		
Kurtoglu, Tolga	Palo Alto Res. Center	17:20-17:40	WeC21.5
17:00-17:20	WeC20.4	<i>Design of a Neural Decoder by Sensory Prediction and Error Correction</i> , pp. 6999-7004.	
<i>Mean-Field Optimal Control by Leaders (I)</i> , pp. 6957-6962.		Lu, Junkai	Univ. of California, Berkeley
Fornasier, Massimo	TU Munich	Chang, Young Hwan	Univ. of California, Berkeley
Piccoli, Benedetto	Rutgers Univ. Camden	Chen, Mo	Univ. of California, Berkeley
Pouradier Duteil, Nastassia	Rutgers Univ. Camden	Tomizuka, Masayoshi	Univ. of California, Berkeley
Rossi, Francesco	Aix-Marseille Univ	Carmena, Jose M.	Univ. of California, Berkeley
17:20-17:40	WeC20.5	Tomlin, Claire J.	Univ. of California, Berkeley
<i>Swarm-Based Dynamic Coverage Control</i> , pp. 6963-6968.			
Atinc, Gokhan M.	Univ. of Illinois, Urbana-Champaign	17:40-18:00	WeC21.6
Stipanovic, Dusan M.	Univ. of Illinois, Urbana-Champaign	<i>Adaptive Tracking Control of a Virtual Player in the Mirror Game</i> , pp. 7005-7010.	
Voulgaris, Petros G.	Univ. of Illinois, Urbana-Champaign	Zhai, Chao	Univ. of Bristol
Karkoub, Mansour	Texas A&M Univ	Alderisio, Francesco	Univ. of Bristol
17:40-18:00	WeC20.6	Tsaneva-Atanasova, Krasimira	Univ. of Exeter
<i>Differentiated Consensuses in Decentralized Load Balancing Problem with Randomized Topology, Noise, and Delays</i> , pp. 6969-6974.		di Bernardo, Mario	Univ. of Naples Federico II
Amelina, Natalia	Saint Petersburg State Univ		
Granichin, Oleg	Saint Petersburg State Univ		
Jiang, Yuming	NTNU		
WeC21	Plaza 3		
Biomedical Systems (Regular Session)			
Chair: Lazar, Mircea	Eindhoven Univ. of Tech.		
Co-Chair: Kirchsteiger, Harald	Johannes Kepler Univ. Linz		
16:00-16:20	WeC21.1		
<i>Design of an Artificial Pancreas Using Zone Model Predictive Control with a Moving Horizon State Estimator</i> , pp. 6975-6980.			
Lee, Justin	Univ. of California, Santa Barbara		
Gondhalekar, Ravi	Univ. of California, Santa Barbara		
Doyle III, Francis J.	Univ. of California, Santa Barbara		
16:20-16:40	WeC21.2		
<i>LMI-Based Online Estimation of a Time-Varying Time-Delay in Continuous Glucose Measurement Devices</i> , pp. 6981-6986.			
Kirchsteiger, Harald	Johannes Kepler Univ. Linz		