

# **2016 IEEE 55th Conference on Decision and Control (CDC 2016)**

**Las Vegas, Nevada, USA  
12-14 December 2016**

**Pages 1-639**



**IEEE Catalog Number: CFP16CDC-POD  
ISBN: 978-1-5090-1838-3**

**Copyright © 2016 by the Institute of Electrical and Electronics Engineers, Inc  
All Rights Reserved**

*Copyright and Reprint Permissions:* Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

***\*\*\* This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP16CDC-POD
ISBN (Print-On-Demand):	978-1-5090-1838-3
ISBN (Online):	978-1-5090-1837-6
ISSN:	0743-1546

**Additional Copies of This Publication Are Available From:**

Curran Associates, Inc  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: (845) 758-0400  
Fax: (845) 758-2633  
E-mail: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

## Content List of 55th IEEE Conference on Decision and Control

### Technical Program for Monday December 12, 2016

<b>MoSP1</b>	Juniper 4	Hadjicostis, Christoforos N.	Univ. of Cyprus
<b>Modeling and Control of Power Flow for Transient Thermal Systems</b> (Semiplenary Session)		Rabbat, Michael	McGill Univ
Chair: Bullo, Francesco	Univ. California at Santa Barbara	Johansson, Mikael	KTH - Royal Inst. of Tech
Co-Chair: Jovanovic, Mihailo	Univ. of Minnesota		
08:30-09:30	MoSP1.1		
<i>Modeling and Control of Power Flow for Transient Thermal Systems*</i> .			MoA01.6
Alleyne, Andrew G.	Univ. of Illinois, Urbana-Champaign	Battistelli, Giorgio	Univ. of Florence
		Tesi, Pietro	Univ. of Groningen
<b>MoSP2</b>	Ironwood 5		
<b>On the First Experimental Realization of a Quantum State Feedback</b> (Semiplenary Session)			Starvine 2
Chair: Giua, Alessandro	Aix-Marseille Univ. France / Univ. of Cagliari, Italy	Chair: Gans, Nicholas	Univ. of Texas at Dallas
Co-Chair: Cortes, Jorge	Univ. of California, San Diego	Co-Chair: Liu, Ji	Univ. of Illinois at Urbana-Champaign
08:30-09:30	MoSP2.1		
<i>On the First Experimental Realization of a Quantum State Feedback*</i> .			MoA02.1
Rouchon, Pierre	Mines ParisTech	Gao, Zuguang	Univ. of Illinois at Urbana-Champaign
		Chen, Xudong	Univ. of Colorado, Boulder
		Liu, Ji	Univ. of Illinois at Urbana-Champaign
<b>MoA01</b>	Starvine 1	Basar, Tamer	Univ. of Illinois, Urbana-Champaign
<b>Network Analysis and Control I</b> (Regular Session)			
Chair: Charalambous, Themistoklis	Chalmers Univ. of Tech		
Co-Chair: Roy, Sandip	Washington State Univ		
10:00-10:20	MoA01.1		
<i>Opinion Dynamics Control by Leadership with Bounded Influence (I)</i> , pp. 1-6.			MoA02.2
Dietrich, Florian	CRAN - Univ. De Lorraine	Loizou, Savvas	Cyprus Univ. of Tech
Martin, Samuel	Univ. De Lorraine	Constantinou, Christos	Cyprus Univ. of Tech
Jungers, Marc	CNRS - Univ. De Lorraine		
10:20-10:40	MoA01.2		
<i>Time Scale Modeling for Consensus in Sparse Directed Networks with Time-Varying Topologies</i> , pp. 7-12.			MoA02.3
Martin, Samuel	Univ. De Lorraine	Fathian, Kaveh	Univ. of Texas at Dallas
Morarescu, Irinel-Constantin	Cran Cnrs Umr 7039 - UI	Rachinskii, Dmitrii	Univ. of Texas at Dallas
Nesic, Dragan	Univ. of Melbourne	Summers, Tyler H.	Univ. of Texas at Dallas
10:40-11:00	MoA01.3	Gans, Nicholas	Univ. of Texas at Dallas
<i>On the Network Reliability Problem of the Heterogeneous Key Predistribution Scheme</i> , pp. 13-18.			
Eletreby, Rashad	Carnegie Mellon Univ		
Yagan, Osman	Carnegie Mellon Univ		
11:00-11:20	MoA01.4		
<i>Consensus on Spheres: Convergence Analysis and Perturbation Theory</i> , pp. 19-24.			MoA02.4
Lageman, Christian	Univ. of Wuerzburg	Belabbas, Mohamed Ali	Univ. of Illinois at Urbana-Champaign
Sun, Zhiyong	Australian National Univ		
11:20-11:40	MoA01.5		
<i>Totally Asynchronous Distributed Estimation of Eigenvector Centrality in Digraphs with Application to the PageRank Problem</i> , pp. 25-30.			MoA02.5
Charalambous, Themistoklis	Chalmers Univ. of Tech	Wang, Bohui	Shanghai Jiao Tong Univ
		Wang, Jingcheng	Shanghai Jiaotong Univ
		Zhu, Huifeng	Department of Shanghai Municipal Monitoring Centre of Water Supp
		Zhang, Bin	Univ. of South Carolina
		Li, Xiaocheng	Shanghai Jiao Tong Univ
		Wang, Xiaofeng	Univ. of South Carolina
		Dai, Leijie	Department of Shanghai Municipal Monitoring Centre of Water Supp

Wang, Ruiqing	Department of Shanghai Municipal Monitoring Centre of Water Supp	Starvine 4	Lehigh Univ
11:40-12:00	MoA02.6		
<i>Coordination of Multi-Agent Leader-Follower System with Time-Varying Objective Function</i> , pp. 69-74.			
Fabian, Zalan	Univ. of New Hampshire		
Yoon, Se Young (Pablo)	Univ. of New Hampshire		
<b>MoA03</b>	Starvine 3		
<b>Cooperative Control I (Regular Session)</b>			
Chair: Scardovi, Luca	Univ. of Toronto		
Co-Chair: Bai, He	Oklahoma State Univ		
10:00-10:20	MoA03.1		
<i>A Two-Time-Scale Dynamic Average Consensus Estimator</i> , pp. 75-80.			
Bai, He	Oklahoma State Univ		
10:20-10:40	MoA03.2		
<i>Abstractions of Varying Decentralization Degree for Coupled Multi-Agent Systems</i> , pp. 81-86.			
Boskos, Dimitris	KTH		
Dimarogonas, Dimos V.	Royal Inst. of Tech		
10:40-11:00	MoA03.3		
<i>A Smooth Distributed Feedback for Global Rendezvous of Unicycles</i> , pp. 87-92.			
Roza, Ashton	Univ. of Toronto		
Maggiore, Manfredi	Univ. of Toronto		
Scardovi, Luca	Univ. of Toronto		
11:00-11:20	MoA03.4		
<i>A Cooperative Receding Horizon Controller for Multi-Target Interception with Obstacle Avoidance</i> , pp. 93-98.			
Khosravi, Mohammad	Concordia Univ		
Khodadadi, Hossein	Concordia Univ		
Aghdam, Amir G.	Concordia Univ		
Rivaz, Hassan	Concordia Univ		
11:20-11:40	MoA03.5		
<i>Decentralized Biconnectivity Conditions in Multi-Robot Systems</i> , pp. 99-104.			
Zareh Eshghdoust, Mehran	Univ. of Modena and Reggio Emilia		
Sabattini, Lorenzo	Univ. of Modena and Reggio Emilia		
Secchi, Cristian	Univ. of Modena & Reggio Emilia		
11:40-12:00	MoA03.6		
<i>Coordinated Distributed MHE for Linear Systems</i> (I), pp. 105-110.			
An, Tianrui	Univ. of Alberta		
Liu, Jinfeng	Univ. of Alberta		
Forbes, J. Fraser	Univ. of Alberta		
<b>MoA04</b>	Starvine 4		
<b>Analysis and Synthesis of Dynamical Networks (Invited Session)</b>			
Chair: Motee, Nader	Lehigh Univ		
Co-Chair: Somarakis, Christoforos	Lehigh Univ		
Organizer: Siami, Milad	Lehigh Univ		
Organizer: Somarakis, Christoforos	Lehigh Univ		
10:00-10:20	MoA04.1		
<i>Resilience of Locally Routed Network Flows: More Capacity Is Not Always Better</i> (I), pp. 111-116.			
Yazicioglu, A. Yasin	Massachusetts Inst. of Tech		
Roozbehani, Mardavij	Massachusetts Inst. of Tech		
Dahleh, Munther A.	Massachusetts Inst. of Tech		
10:20-10:40	MoA04.2		
<i>Koopman Performance Analysis of a Class of Nonlinear Dynamical Networks</i> (I), pp. 117-122.			
Mousavi, Hossein K.	Lehigh Univ		
Somarakis, Christoforos	Lehigh Univ		
Mottee, Nader	Lehigh Univ		
10:40-11:00	MoA04.3		
<i>Closed-Loop Feedback Sparsification under Parametric Uncertainties</i> (I), pp. 123-128.			
Arastoo, Reza	Lehigh Univ		
Bahavarnia, MirSaleh	Lehigh Univ		
Kothare, Mayuresh V.	Lehigh Univ		
Mottee, Nader	Lehigh Univ		
11:00-11:20	MoA04.4		
<i>State-Based Communication Design for Wireless Control Systems</i> (I), pp. 129-134.			
Gatsis, Konstantinos	Univ. of Pennsylvania		
Ribeiro, Alejandro	Univ. of Pennsylvania		
Pappas, George J.	Univ. of Pennsylvania		
11:20-11:40	MoA04.5		
<i>Online Algorithms for Network Formation</i> (I), pp. 135-140.			
Meng, De	Univ. of Washington		
Fazel, Maryam	Univ. of Washington		
Mesbahi, Mehran	Univ. of Washington		
11:40-12:00	MoA04.6		
<i>Optimal Control for Information Diffusion Over Heterogeneous Networks</i> , pp. 141-146.			
Liu, Fangzhou	Tech. Univ. München		
Buss, Martin	Tech. Univ. Muenchen		
<b>MoA05</b>	Starvine 5		
<b>Distributed and Large-Scale Optimization I (Invited Session)</b>			
Chair: Nedich, Angelia	Univ. of Illinois, Urbana-Champaign		
Co-Chair: Olshevsky, Alexander	Univ. of Illinois at Urbana-Champaign		
Organizer: Nedich, Angelia	Arizona State Univ		
Organizer: Notarstefano, Giuseppe	Univ. Del Salento		
Organizer: Olshevsky, Alexander	Boston Univ		
10:00-10:20	MoA05.1		
<i>Large Scale Data Clustering and Graph Partitioning Via Simulated Mixing</i> (I), pp. 147-152.			
Bhatti, Shahzad	Univ. of Illinois at Urbana-Champaign		
Beck, Carolyn L.	Univ. of Illinois, Urbana-Champaign		
Nedich, Angelia	Univ. of Illinois, Urbana-Champaign		

10:20-10:40	MoA05.2	Bertolazzi, Enrico Biral, Francesco Fontanelli, Daniele Palopoli, Luigi	Univ. of Trento Univ. of Trento Univ. of Trento Univ. of Trento
A Randomized Primal Distributed Algorithm for Partitioned and Big-Data Non-Convex Optimization (I), pp. 153-158.			
Notarnicola, Ivano Notarstefano, Giuseppe	Univ. Del Salento Univ. Del Salento		
10:40-11:00	MoA05.3		
Harnessing Smoothness to Accelerate Distributed Optimization (I), pp. 159-166.			
Qu, Guannan Li, Na	Harvard Univ Harvard Univ	de Pinho, Maria do Rosario Foroodandeh, Zahra	Univ. Do Porto, Fac. Engenharia Faculty of Mathematics and Computer Science, Amirkabir Univ
11:00-11:20	MoA05.4	Matos, Anibal Castilho	Faculdade De Engenharia Da Univ. Do Porto
Distributed Cooperative Decision-Making in Multiarmed Bandits: Frequentist and Bayesian Algorithms (I), pp. 167-172.			
Landgren, Peter Srivastava, Vaibhav Leonard, Naomi Ehrich	Princeton Univ Michigan State Univ Princeton Univ		
11:20-11:40	MoA05.5		
Global Convergence Rate of Incremental Aggregated Gradient Methods for Nonsmooth Problems (I), pp. 173-178.			
Vanli, Nuri Denizcan Gurbuzbalaban, Mert Ozdaglar, Asu	MIT New York Univ. Courant Inst MIT	Ferrante, Augusto Ntogramatzidis, Lorenzo	Univ. Di Padova Curtin Univ
11:40-12:00	MoA05.6		
On Performance of Consensus Protocols Subject to Noise: Role of Hitting Times and Network Structure (I), pp. 179-184.			
Jadbabaie, Ali Olshevsky, Alexander	MIT Boston Univ		
<b>MoA06</b>	Starvine 6		
<b>Optimal Control I (Regular Session)</b>			
Chair: Chen, Mo Co-Chair: Borum, Andy	Univ. of California, Berkeley Univ. of Illinois at Urbana-Champaign		
10:00-10:20	MoA06.1		
Helices, Relative Equilibria, and Optimality on the Special Euclidean Group, pp. 185-190.			
Borum, Andy	Univ. of Illinois at Urbana-Champaign	Magnusson, Sindri Enyioha, Chinwendu	KTH - Royal Inst. of Tech Harvard Univ
Bretl, Timothy	Univ. of Illinois, Urbana-Champaign	Li, Na Fischione, Carlo	Harvard Univ Royal Inst. of Tech
10:20-10:40	MoA06.2		
Fast Reachable Set Approximations Via State Decoupling Disturbances, pp. 191-196.			
Chen, Mo Herbert, Sylvia Tomlin, Claire J.	Univ. of California, Berkeley UC Berkeley UC Berkeley	Li, Nan He, Chaozhe Orosz, Gabor	Univ. of Michigan Univ. of Michigan Univ. of Michigan
10:40-11:00	MoA06.3		
Optimal Control of a Stochastic Oscillator in Non-Equilibrium Thermodynamics, pp. 197-202.			
Huang, Yunlong Krishnaprasad, P. S.	Univ. of Maryland Univ. of Maryland	Banjac, Goran Goulart, Paul	Univ. of Oxford Univ. of Oxford
11:00-11:20	MoA06.4		
Trajectory Planning for Car-Like Vehicles: A Modular Approach, pp. 203-209.			
Frego, Marco Bevilacqua, Paolo	Univ. of Trento Univ. of Trento	Spedicato, Sara Notarstefano, Giuseppe	Univ. Del Salento Univ. Del Salento
11:20-11:40	MoA07.5		
Distributed Dynamic Optimization Over Directed Graphs, pp. 245-250.			
Xi, Chenguang Khan, Usman A.			
11:40-12:00	MoA07.6		
Discrete Consensus for Asynchronous Distributed Task Assignment, pp. 251-255.			
Fanti, Maria Pia Mangini, Agostino Marcello Pedroncelli, Giovanni			
			Pol. of Bari Pol. Di Bari Univ. of Trieste

Ukovich, Walter	Univ. of Trieste	Co-Chair: Farokhi, Farhad	The Univ. of Melbourne
<b>MoA08</b>	Starvine 8	10:00-10:20	MoA09.1
<b>Advances in Control, Game Theory, and Identification for Stochastic Systems (Invited Session)</b>		<i>Exteroceptive Measurement Filtering Embedded within an SO(3)-Based Attitude Estimator</i> , pp. 296-301.	
Chair: Pasik-Duncan, Bozenna	Univ. of Kansas	Zlotnik, David Evan	Univ. of Michigan
Co-Chair: Prandini, Maria	Pol. Di Milano	Forbes, James Richard	McGill Univ
Organizer: Pasik-Duncan, Bozenna	Univ. of Kansas	10:20-10:40	MoA09.2
Organizer: Prandini, Maria	Pol. Di Milano	<i>Optimal State Estimation with Measurements Corrupted by Laplace Noise</i> , pp. 302-307.	
Deori, Luca	Pol. Di Milano	Farokhi, Farhad	The Univ. of Melbourne
Garatti, Simone	Pol. Di Milano	Milosevic, Jezdimir	KTH Royal Inst. of Tech
Prandini, Maria	Pol. Di Milano	Sandberg, Henrik	KTH Royal Inst. of Tech
10:00-10:20	MoA08.1	10:40-11:00	MoA09.3
<i>A Stochastic Strategy Integrating Wind Compensation for Trajectory Tracking in Aircraft Motion Control (I)</i> , pp. 256-261.		<i>A Globally Exponentially Stable Hybrid Attitude and Gyro-Bias Observer</i> , pp. 308-313.	
Carè, Algo	Hungarian Acad. of Sciences (MTA), Budapest	Berkane, Soulaimane	Western Univ
Csaji, Balazs	MTA SZTAKI: Inst. for Computer Science and Control, Hungaria	Abdessameud, Abdelkader	Univ. of Western Ontario
Campi, M. C.	Univ. Di Brescia	Tayebi, Abdelhamid	Lakehead Univ
10:20-10:40	MoA08.2	11:00-11:20	MoA09.4
<i>Sign-Perturbed Sums (SPS) with Asymmetric Noise: Robustness Analysis and Robustification Techniques (I)</i> , pp. 262-267.		<i>Constrained Stochastic Hybrid System Modeling to Road Map - GPS Integration for Vehicle Positioning</i> , pp. 314-319.	
Firooz, Dena	McGill Univ	Kwon, Cheolhyeon	Purdue Univ
Caines, Peter E.	McGill Univ	Hwang, Inseok	Purdue Univ
10:40-11:00	MoA08.3	11:20-11:40	MoA09.5
<i>Mean Field Game \$S\$-Nash Equilibria for Partially Observed Optimal Execution Problems in Finance (I)</i> , pp. 268-275.		<i>The Structure of Optimal Communication Policies for Remote Estimation Over the Collision Channel with Private and Common Observations</i> , pp. 320-326.	
Maity, Dipankar	Univ. of Maryland, Coll. Park	Vasconcelos, Marcos M.	Univ. of Southern California
Baras, John S.	Univ. of Maryland	Martins, Nuno C.	Univ. of Maryland
11:00-11:20	MoA08.4	11:40-12:00	MoA09.6
<i>Optimal Strategies for Stochastic Linear Quadratic Differential Games with Costly Information (I)</i> , pp. 276-282.		<i>Optimal Remote State Estimation for Self-Propelled Particle Models</i> , pp. 327-333.	
Satchidanandan, Bharadwaj	Texas A&M Univ	Park, Shinkyu	Massachusetts Inst. of Tech
Kumar, P. R.	Texas A&M Univ	Martins, Nuno C.	Univ. of Maryland
11:20-11:40	MoA08.5	10:00-10:20	MoA10.1
<i>Secure Control of Networked Cyber-Physical Systems (I)</i> , pp. 283-289.		<i>Generalized Composite Adaptive IMC: Design and Analysis</i> , pp. 334-340.	
Liu, Ji	Univ. of Illinois at Urbana-Champaign	Qiu, Zeng	Univ. of Michigan, Ann Arbor
Pare, Philip	Univ. of Illinois at Urbana-Champaign	Sun, Jing	Univ. of Michigan
Nedich, Angelia	Univ. of Illinois, Urbana-Champaign	Jankovic, Mrdjan	Ford Res. & Advanced Engineering
Tang, Choon Yik	Univ. of Oklahoma	Santillo, Mario	Ford Motor Company
Beck, Carolyn L.	Univ. of Illinois, Urbana-Champaign	10:20-10:40	MoA10.2
Basar, Tamer	Univ. of Illinois, Urbana-Champaign	<i>A Weighted Least Squares Method for Estimation of Unstable Systems</i> , pp. 341-346.	
<b>MoA09</b>	Starvine 9	Galrinho, Miguel	Kungliga Tekniska Högskolan
<b>Estimation I (Regular Session)</b>		Rojas, Cristian R.	KTH Royal Inst. of Tech
Chair: Tayebi, Abdelhamid	Lakehead Univ	Hjalmarsson, Håkan	KTH Royal Inst. of Tech
10:40-11:00	MoA10.3	<i>A High Performance Approach to Local Active Noise Reduction</i> , pp. 347-352.	

Kwan, Chi-Man	Applied Res. LLC	<i>Distributed Robust Stochastic Learning in Asynchronous Networks of Sampled-Data Systems</i> , pp. 401-406.
11:00-11:20	MoA10.4	Poveda, Jorge I. Univ. of California at Santa Barbara
<i>Learning Hybrid Models with Logical and Continuous Dynamics Via Multiclass Linear Separation</i> , pp. 353-358.		Teel, Andrew R. Univ. of California at Santa Barbara
Breschi, Valentina	IMT Lucca	
Piga, Dario	IMT Inst. for Advanced Studies Lucca	
Bemporad, Alberto	IMT Inst. for Advanced Studies Lucca	
11:20-11:40	MoA10.5	
<i>Algebraic Estimation of a Biased and Noisy Continuous Signal Via Orthogonal Polynomials</i> , pp. 359-364.		
Ushirobira, Rosane	Inria	
Quadrat, Alban	INRIA Saclay	
11:40-12:00	MoA10.6	
<i>Measurement Difference Autocovariance Method for Noise Covariance Matrices Estimation</i> , pp. 365-370.		
Dunik, Jindrich	Univ. of West Bohemia	
Straka, Ondrej	Univ. of West Bohemia	
Kost, Oliver	Univ. of West Bohemia	
<b>MoA11</b>	Starvine 11	
<b>Adaptive Control I (Regular Session)</b>		
Chair: Bernstein, Dennis S.	Univ. of Michigan	
Co-Chair: Yucelen, Tansel	Univ. of South Florida	
10:00-10:20	MoA11.1	
<i>Retrospective Cost Adaptive Control with Concurrent Closed-Loop Identification of Time-Varying Nonminimum-Phase Zeros</i> , pp. 371-376.		
Sobolic, Frantisek	Univ. of Michigan	
Bernstein, Dennis S.	Univ. of Michigan	
10:20-10:40	MoA11.2	
<i>On Model Reference Adaptive Control for Uncertain Dynamical Systems with Unmodeled Dynamics</i> , pp. 377-382.		
Dogan, Kadriye Merve	Univ. OF SOUTH FLORIDA	
Yucelen, Tansel	Univ. of South Florida	
Gruenwald, Benjamin	Univ. of South Florida	
Muse, Jonathan	Wright Patterson Air Force Base	
10:40-11:00	MoA11.3	
<i>Adaptive Control of Plants That Are Practically Impossible to Control by Fixed-Gain Control Laws</i> , pp. 383-388.		
Rahman, Yousaf	Univ. of Michigan	
Bernstein, Dennis S.	Univ. of Michigan	
11:00-11:20	MoA11.4	
<i>Adaptive Control of a Surface Marine Craft with Parameter Identification Using Integral Concurrent Learning</i> , pp. 389-394.		
Bell, Zachary	Univ. of Florida	
Parikh, Anup	Univ. of Florida	
Nezadovitz, Jason	Univ. of Florida	
Dixon, Warren E.	Univ. of Florida	
11:20-11:40	MoA11.5	
<i>Synthesis of Adaptive Controllers for Spacecraft Rendezvous Maneuvers Using Nonlinear Models of Relative Motion</i> , pp. 395-400.		
Zhang, Kewen	Worcester Pol. Inst	
Demetriou, Michael A.	Worcester Pol. Inst	
11:40-12:00	MoA11.6	
<b>MoA12</b>	Starvine 12	
<b>Automata (Regular Session)</b>		
Chair: Hadjicostis, Christoforos N.	Univ. of Cyprus	
Co-Chair: Seatzu, Carla	Univ. of Cagliari	
10:00-10:20	MoA12.1	
<i>Controller Design under Safety Specifications for a Class of Bounded Hybrid Automata</i> , pp. 407-413.		
Hoehener, Daniel	Massachusetts Inst. of Tech	
Del Vecchio, Domitilla	Massachusetts Inst. of Tech	
10:20-10:40	MoA12.2	
<i>Reliable Conditional-Coobservability for Decentralized Supervisory Control of Discrete Event Systems with Conditional Decisions</i> , pp. 414-419.		
Yoshida, Sho	Osaka Univ	
Takai, Shigemasa	Osaka Univ	
10:40-11:00	MoA12.3	
<i>K-Detectability in Discrete Event Systems</i> , pp. 420-425.		
Hadjicostis, Christoforos N.	Univ. of Cyprus	
Seatzu, Carla	Univ. of Cagliari	
11:00-11:20	MoA12.4	
<i>Risk-Averse Control of Markov Decision Processes with Omega-Regular Objectives</i> , pp. 426-433.		
Ehlers, Ruediger	Univ. of Bremen	
Moarref, Salar	Univ. of Pennsylvania	
Topcu, Ufuk	The Univ. of Texas at Austin	
11:20-11:40	MoA12.5	
<i>Automata Theory Meets Approximate Dynamic Programming: Optimal Control with Temporal Logic Constraints</i> , pp. 434-440.		
Papusha, Ivan	California Inst. of Tech	
Fu, Jie	Worcester Pol. Inst	
Topcu, Ufuk	The Univ. of Texas at Austin	
Murray, Richard M.	California Inst. of Tech	
11:40-12:00	MoA12.6	
<i>Distributed Computation of Maximally Permissive Supervisors in Three-Level Relaxed Coordination Control of Discrete-Event Systems</i> , pp. 441-446.		
Komenda, Jan	Czech Acad. of Sciences	
Masopust, Tomas	TU Dresden	
van Schuppen, Jan H.	Van Schuppen Control Res	
<b>MoA13</b>	Starvine 13	
<b>Input to State Stability and Its Variants (Invited Session)</b>		
Chair: Kellett, Christopher M.	Univ. of Newcastle	
Co-Chair: Rüffer, Björn S.	The Univ. of Newcastle	
Organizer: Kellett, Christopher M.	Univ. of Newcastle	
Organizer: Rüffer, Björn S.	The Univ. of Newcastle	
10:00-10:20	MoA13.1	

<i>On Lyapunov-Krasovskii Characterizations of Stability Notions for Discrete-Time Systems with Unknown Time-Varying Time-Delays (I)</i> , pp. 447-452.		<i>Event-Triggered Control for Nonlinear Systems with Time-Varying Input Delay (I)</i> , pp. 495-500.	
Pepe, Pierdomenico Pola, Giordano Di Benedetto, M. Domenica	Univ. of L&apos; Aquila Univ. of L&apos; Aquila Univ. of L&apos; Aquila	Nozari, Erfan Tallapragada, Pavankumar Cortes, Jorge	
10:20-10:40	MoA13.2	Univ. of California, San Diego Univ. of California, San Diego Univ. of California, San Diego	
<i>Output-To-State Stability for Systems on Manifolds with Multiple Invariant Sets (I)</i> , pp. 453-458.			
Forni, Paolo Angeli, David	Imperial Coll. London Imperial Coll	Selivanov, Anton Fridman, Emilia	
10:40-11:00	MoA13.3	Tel Aviv Univ Tel-Aviv Univ	
<i>Cascades of liss and Strong liss Systems with Multiple Invariant Sets (I)</i> , pp. 459-464.			
Forni, Paolo Angeli, David	Imperial Coll. London Imperial Coll	11:20-11:40 MoA14.4	
11:00-11:20	MoA13.4	<i>Predictor-Based Networked Control in the Presence of Uncertain Time-Varying Delays (I)</i> , pp. 501-506.	
<i>Analysis of Different Lyapunov Function Constructions for Interconnected Hybrid Systems (I)</i> , pp. 465-470.		Selivanov, Anton Fridman, Emilia	
Yang, Guosong Liberzon, Daniel Mironchenko, Andrii	Univ. of Illinois at Urbana-Champaign Univ. of Illinois, Urbana-Champaign Univ. of Passau	11:20-11:40 MoA14.5	
11:20-11:40	MoA13.5	<i>A Non-Monotonic Approach to Periodic Event-Triggered Control with Packet Loss (I)</i> , pp. 507-512.	
<i>Lower-Power Lyapunov Functions for Networks of Integral Input-To-State Stable Systems (I)</i> , pp. 471-476.		Linsenmayer, Steffen Dimarogonas, Dimos V. Allgöwer, Frank	
Ito, Hiroshi	Kyushu Inst. of Tech	Univ. of Stuttgart Royal Inst. of Tech Univ. of Stuttgart	
11:40-12:00	MoA13.6	11:40-12:00 MoA14.6	
<i>Incremental Stability Properties for Discrete-Time Systems (I)</i> , pp. 477-482.		<i>Decentralized Event-Triggered Medium Access Control for Networked Control Systems (I)</i> , pp. 513-519.	
Tran, Duc Rüffer, Björn S. Kellett, Christopher M.	The Univ. of Newcastle The Univ. of Newcastle Univ. of Newcastle	Mamduhi, Mohammad Hossein Kneissl, Maximilian Hirche, Sandra	
<b>MoA14</b>	Ironwood 1	Tech. Univ. München Tech. Univ. of Munich Tech. Univ. München	
<b>Event-Triggered and Self-Triggered Control Based on Unreliable and Quantized Information (Invited Session)</b>			
Chair: Heemels, W.P.M.H. Co-Chair: Hirche, Sandra Organizer: Heemels, W.P.M.H. Organizer: Hirche, Sandra Organizer: Johansson, Karl H.	Eindhoven Univ. of Tech Tech. Univ. München Eindhoven Univ. of Tech Tech. Univ. München Royal Inst. of Tech	<b>PDE Control and Adaptive Structures (Invited Session)</b>	Ironwood 2
10:00-10:20	MoA14.1	Chair: Meurer, Thomas Co-Chair: Macchelli, Alessandro Organizer: Meurer, Thomas Organizer: Le Gorrec, Yann	Christian-Albrechts-Univ. Kiel Univ. of Bologna - Italy Christian-Albrechts-Univ. Kiel Ensmm, Femto-St / As2m
<i>Input-To-State Stabilizing Event-Triggered Control for Linear Systems with Output Quantization (I)</i> , pp. 483-488.		10:00-10:20 MoA15.1	
Abdelrahim, Mahmoud Dolk, Victor Sebastiaan Heemels, W.P.M.H.	Control Systems Tech. Group, Department of Mechanical Engin Eindhoven Univ. of Tech Eindhoven Univ. of Tech	<i>Modelling and Flatness-Based Motion Planning for an Interconnected Flexible Beam Structure (I)</i> , pp. 520-525.	
10:20-10:40	MoA14.2	Kater, Andreas Meurer, Thomas	Christian-Albrechts-Univ. Kiel Christian-Albrechts-Univ. Kiel
<i>Resilient Self-Triggered Network Synchronization (I)</i> , pp. 489-494.		10:20-10:40 MoA15.2	
Senejohnny, Danial Tesi, Pietro De Persis, Claudio	Univ. of Groningen Univ. of Groningen Univ. of Groningen	<i>Output Feedback Control of the One-Phase Stefan Problem (I)</i> , pp. 526-531.	
10:40-11:00	MoA14.3	Koga, Shumon Diagne, Mamadou Krstic, Miroslav	Univ. of California, San Diego Univ. of Michigan Ann Arbor Univ. of California, San Diego
<i>Brayton-Moser Formulation of Infinite Dimensional Port-Hamiltonian Systems with Application to Boundary Control (I)</i> , pp. 543-548.		10:40-11:00 MoA15.3	
Morris, Kirsten Vest, Ambroise	Univ. of Waterloo Lycée Henri Poincare	<i>Design of Damping for Optimal Energy Dissipation of Vibrations (I)</i> , pp. 532-536.	
11:00-11:20	MoA15.4		
<i>Bilateral Boundary Control of One-Dimensional First and Second-Order PDEs Using Infinite-Dimensional Backstepping (I)</i> , pp. 537-542.		Vazquez, Rafael Krstic, Miroslav	Univ. De Sevilla Univ. of California, San Diego
11:20-11:40	MoA15.5		

Macchelli, Alessandro	Univ. of Bologna - Italy	
11:40-12:00	MoA15.6	
<i>Backstepping Observer Based-Control for an Anti-Damped Boundary Wave PDE in Presence of In-Domain Viscous Damping</i> , pp. 549-554.		
Roman, Christophe	GIPSA-Lab -- Grenoble INP	
Bresch-Pietri, Delphine	CNRS, GIPSA-Lab	
Cerpa, Eduardo	Univ. Técnica Federico Santa María	
Prieur, Christophe	CNRS	
Sename, Olivier	Univ. Grenoble Alpes	
<b>MoA16</b>	Ironwood 3	
<b>Delay Systems I (Regular Session)</b>		
Chair: Califano, Claudia	Univ. Di Roma	
Co-Chair: Bonnet, Catherine	INRIA Saclay-Ile-De-France	
10:00-10:20	MoA16.1	
<i>On the Geometric Interpretation of the Polynomial Lie Bracket for Nonlinear Time-Delay Systems (I)</i> , pp. 555-560.		
Califano, Claudia	Univ. Di Roma	
Battilotti, Stefano	Univ. La Sapienza	
Moog, Claude H.	CNRS	
10:20-10:40	MoA16.2	
<i>Stability of a Delay System Coupled to a Differential-Difference System Describing the Coexistence of Ordinary and Mutated Hematopoietic Stem Cells</i> , pp. 561-566.		
Djema, Walid	INRIA Saclay-Ile-De-France	
Mazenc, Frederic	Epi Inria Disco	
Bonnet, Catherine	INRIA Saclay-Ile-De-France	
Clairambault, Jean	INRIA	
Hirsch, Pierre	Groupe De Recherche Clinique Sur Les Myé Loproliferations A	
Delhommeau, François	Groupe De Recherche Clinique Sur Les Myé Loproliferations A	
10:40-11:00	MoA16.3	
<i>Analysis of PWA Control of Discrete-Time Linear Dynamics in the Presence of Variable Time-Delay</i> , pp. 567-572.		
Laraba, Mohammed-Tahar	Lab. of Signals and Systems	
Olaru, Sorin	CentraleSupélec	
Niculescu, Silviu-Iulian	CNRS-Supelec	
11:00-11:20	MoA16.4	
<i>Differential Dynamic Programming for Time-Delayed Systems</i> , pp. 573-579.		
Fan, David D.	Georgia Inst. of Tech	
Theodorou, Evangelos A.	Georgia Inst. of Tech	
11:20-11:40	MoA16.5	
<i>Unknown Input Functional Observability of Descriptor Systems with Delays</i> , pp. 580-585.		
Bejarano, Francisco Javier	Inst. Pol. Nacional, ESIME Ticomán	
Zheng, Gang	INRIA	
11:40-12:00	MoA16.6	
<i>H<sub>inf</sub> State-Feedback Control of Linear Systems with Time-Varying Input Delays</i> , pp. 586-591.		
Yuan, Chengzhi	Univ. of Rhode Island	
Wu, Fen	North Carolina State Univ	
<b>MoA17</b>	Ironwood 6	
<b>Variational Analysis in Dynamics and Control (Invited Session)</b>		
Chair: Goebel, Rafal	Loyola Univ. Chicago	
Co-Chair: Sanfelice, Ricardo G.	Univ. of California at Santa Cruz	
Organizer: Goebel, Rafal	Loyola Univ. Chicago	
Organizer: Sanfelice, Ricardo G.	Univ. of California at Santa Cruz	
10:00-10:20	MoA17.1	
<i>Generalized Derivatives of Optimal Control Problems with Nonsmooth Differential-Algebraic Equations Embedded (I)</i> , pp. 592-597.		
Stechlinski, Peter	MIT	
Barton, Paul I.	MIT	
10:20-10:40	MoA17.2	
<i>How Well-Posedness of Hybrid Systems Can Extend Beyond Zeno Times (I)</i> , pp. 598-603.		
Goebel, Rafal	Loyola Univ. Chicago	
Sanfelice, Ricardo G.	Univ. of California at Santa Barbara	
10:40-11:00	MoA17.3	
<i>LQ Optimal Control for a Class of Hybrid Systems (I)</i> , pp. 604-609.		
Possieri, Corrado	Univ. Di Roma Tor Vergata	
Teel, Andrew R.	Univ. of California at Santa Barbara	
11:00-11:20	MoA17.4	
<i>Differential-Algebraic Inclusions with Maximal Monotone Operators (I)</i> , pp. 610-615.		
Camlibel, M. Kanat	Univ. of Groningen	
Iannelli, Luigi	Univ. of Sannio in Benevento	
Tanwani, Aneel	Laas -- Cnrs	
Trenn, Stephan	Univ. of Kaiserslautern	
11:20-11:40	MoA17.5	
<i>Continuously Generalized Model Predictive Control (I)</i> , pp. 616-621.		
Rakovic, Sasa V.	Texas A&M Univ	
Levine, William S.	Univ. of Maryland	
Acikmese, Behcet	Univ. of Washington	
11:40-12:00	MoA17.6	
<i>Results on Invariance-Based Feedback Control for Hybrid Dynamical Systems (I)</i> , pp. 622-627.		
Chai, Jun	The Univ. of California at Santa Cruz	
Sanfelice, Ricardo G.	Univ. of California at Santa Cruz	
<b>MoA18</b>	Ironwood 7	
<b>H-Infinity Control (Regular Session)</b>		
Chair: Aguilera, Luis T.	Inst. Pol. Nacional	
Co-Chair: Mylvaganam, Thulasi	Imperial Coll. London	
10:00-10:20	MoA18.1	
<i>Nonlinear Robust H-Infinity Tracking Control for 6 DOF Spacecraft Formation with Input Saturation</i> , pp. 628-633.		
Huang, Yi	Beihang Univ	
Jia, Yingmin	Beihang Univ	
10:20-10:40	MoA18.2	
<i>Robust Sensorless Speed-Tracking Controller for Surface-Mount Permanent Magnet Synchronous Motors</i> , pp. 634-639.		
Ramirez-Villalobos, Ramon	Inst. Tecnologico De Tijuana	

Ferreira de Loza, Alejandra	Unam	<i>Submodularity of Energy Storage Placement in Power Networks (I)</i> , pp. 686-693.
Aguilar, Luis T.	Inst. Pol. Nacional	Stanford Univ
Coria, Luis N.	Inst. Tecnologico De Tijuana	Univ. of Southern California
10:40-11:00	MoA18.3	Stanford Univ
<i>H-Infinity Filtering for Markovian Jump Linear Systems with Mode Partial Information</i> , pp. 640-645.		
Graciani Rodrigues, Caio César	National Lab. for Scientific Computing - LNCC	Univ. of California, Berkeley
Todorov, Marcos	LNCC	Univ. of California, Berkeley
Fragoso, Marcelo	Lncc / Mct	UC Berkeley
11:00-11:20	MoA18.4	UC Berkeley
<i>Reduction of SDPs in H-Infinity Control of SISO Systems and Performance Limitations Analysis</i> , pp. 646-651.		
Waki, Hayato	Inst. of Mathematics for Industry, Kyushu Univ	Sandia National Lab
Ebihara, Yoshio	Kyoto Univ	Rensselaer Pol. Inst
Sebe, Noboru	Kyushu Inst. of Tech	Rensselaer Pol. Inst
11:20-11:40	MoA18.5	
<i>Dynamic Algorithms for Solving Coupled Algebraic Riccati Equations Arising in Mixed H2/H-Infinity Control for Scalar Linear Systems</i> , pp. 652-657.		
Mylvaganam, Thulasi	Imperial Coll. London	Clemson Univ
Astolfi, Alessandro	Imperial Coll. & Univ. of Rome	Clemson Univ
11:40-12:00	MoA18.6	General Motors Company
<i>A Global Optimization Approach to Structured Regulation Design under H Infinity Constraints</i> , pp. 658-663.		
monnet, dominique	ENSTA Bretagne	Clemson Univ
NININ, Jordan	ENSTA Bretagne	Cummins Inc
CLEMENT, Benoit	ENSTA Bretagne	
<b>MoA19</b>	Ironwood 8	<b>Coppearleaf 1</b>
<b>Power Systems I (Regular Session)</b>		
Chair: Rajagopal, Ram	Stanford Univ	Mitsubishi Electric Res. Labs
Co-Chair: Lavaei, Javad	UC Berkeley	Mitsubishi Electric Res. Lab. (MERL)
10:00-10:20	MoA19.1	Mitsubishi Electric Res. Labs
<i>Decentralized Optimal Frequency Control of Interconnected Power Systems with Transient Constraints (I)</i> , pp. 664-671.		
Wang, Zhaojian	Tsinghua Univ	Clemson Univ
Liu, Feng	Tsinghua Univ	Clemson Univ
Low, Steven	California Inst. of Tech	Pol. Di Torino
Zhao, Changhong	National Renewable Energy Lab	Univ. Grenoble Alpes
Mei, Shengwei	Tsinghua Univ	CNRS-Grenoble INP
10:20-10:40	MoA19.2	
<i>Power System State Estimation with a Limited Number of Measurements</i> , pp. 672-679.		
Madani, Ramtin	The Univ. of Texas at Arlington	
Ashraphijuo, Morteza	Univ. of California, Berkeley	
Lavaei, Javad	UC Berkeley	
Baldick, Ross	Univ. of Texas, Austin	
10:40-11:00	MoA19.3	
<i>A Price-Based Approach for Voltage Regulation and Power Loss Minimization in Power Distribution Networks</i> , pp. 680-685.		
Jafarian, Matin	KTH Royal Inst. of Tech	The Univ. of Michigan
Scherpen, Jacquelin M.A.	Univ. of Groningen	Bilkent Univ
Aiello, Marco	Univ. of Groningen	Univ. of Michigan, Ann Arbor
11:00-11:20	MoA19.4	The Univ. of Michigan
<i>Robust Control of Electrified Turbocharged Diesel Engines</i> , pp. 734-		

Zhao, Dezong	Loughborough Univ	Coppearleaf 3
Winward, Edward	Loughborough Univ	
Yang, Zhijia	Loughborough Univ	
Stobart, Richard	Loughborough Univ	
Steffen, Thomas	Loughborough Univ	
11:40-12:00	MoA20.6	
<i>Robust Observer-Based Sliding Mode Controller for Vehicles with Roll Dynamics, pp. 740-745.</i>		
Ley-Rosas, Juan José	Cinvestav Gdl	
González Jiménez, Luis Enrique	Iteso Ac	
Loukianov, Alexander G.	CINVESTAV IPN Unidad GDL	
Ruiz-Duarte, Jorge Enrique	Cinvestav Unidad Guadalajara	
<b>MoA21</b>	Coppearleaf 2	
<b>In-Vivo Identification and Control of Biomolecular Systems (Invited Session)</b>		
Chair: Menolascina, Filippo	Univ. of Edinburgh	
Co-Chair: Briat, Corentin	ETH Zürich	
Organizer: Menolascina, Filippo	Univ. of Edinburgh	
Organizer: Sontag, Eduardo D.	Rutgers Univ	
10:00-10:20	MoA21.1	
<i>Reachability Analysis for Switched Affine Systems and Its Application to Controlled Stochastic Biochemical Reaction Networks (I), pp. 746-751.</i>		
Parise, Francesca	ETH Zurich	
Valcher, Maria Elena	Univ. Di Padova	
Lygeros, John	ETH Zurich	
10:20-10:40	MoA21.2	
<i>Robust Ergodicity and Tracking in Antithetic Integral Control of Stochastic Biochemical Reaction Networks (I), pp. 752-757.</i>		
Briat, Corentin	ETH Zürich	
Khammash, Mustafa H.	ETH Zurich	
10:40-11:00	MoA21.3	
<i>Mitigation of Ribosome Competition through Distributed Srna Feedback (I), pp. 758-763.</i>		
Qian, Yili	Massachusetts Inst. of Tech	
Del Vecchio, Domitilla	Massachusetts Inst. of Tech	
11:00-11:20	MoA21.4	
<i>In-Vivo Identification and Control of Aerotaxis in Bacillus Subtilis (I), pp. 764-769.</i>		
Menolascina, Filippo	Univ. of Edinburgh	
Stocker, Roman	Massachusetts Inst. of Tech	
Sontag, Eduardo D.	Rutgers Univ	
11:20-11:40	MoA21.5	
<i>Scalable Inference Using PMCMC and Parallel Tempering for High-Throughput Measurements of Biomolecular Reaction Networks (I), pp. 770-775.</i>		
Bronstein, Leo	Tech. Univ. Darmstadt	
Koepll, Heinz	Tech. Univ. Darmstadt	
11:40-12:00	MoA21.6	
<i>Online Model Selection for Synthetic Gene Networks (I), pp. 776-782.</i>		
Pan, Wei	Imperial Coll. London	
Menolascina, Filippo	Univ. of Edinburgh	
Stan, Guy-Bart Vincent	Imperial Coll. London	
<b>MoA22</b>	Coppearleaf 3	
<b>Control for Smart Cities and Internet of Things (Invited Session)</b>		
Chair: Lin, Hai	Univ. of Notre Dame	
Co-Chair: Su, Rong	Nanyang Tech. Univ	
Organizer: Jia, (Samuel) Qing-Shan	Tsinghua Univ	
Organizer: Su, Rong	Nanyang Tech. Univ	
Organizer: Lin, Hai	Univ. of Notre Dame	
10:00-10:20	MoA22.1	
<i>Analysis of Consensus-Based Economic Dispatch Algorithm under Uniform Time Delays (I), pp. 783-788.</i>		
Zhao, Chengcheng	Zhejiang Univ	
Duan, Xiaoming	Zhejiang Univ	
Shi, Yang	Univ. of Victoria	
10:20-10:40	MoA22.2	
<i>Price of Anarchy in Transportation Networks by Estimating User Cost Functions from Actual Traffic Data (I), pp. 789-794.</i>		
Zhang, Jing	Boston Univ	
Pourazarm, Sepideh	Boston Univ	
Cassandras, Christos G.	Boston Univ	
Paschalidis, Ioannis Ch.	Boston Univ	
10:40-11:00	MoA22.3	
<i>Assume-Guarantee Reasoning Framework for MDP-POMDP (I), pp. 795-800.</i>		
Zhang, Xiaobin	Univ. of Notre Dame	
Wu, Bo	Univ. of Notre Dame	
Lin, Hai	Univ. of Notre Dame	
11:00-11:20	MoA22.4	
<i>Optimal Power Demand Management among Consumers with Aggregator Considering State and Control Constraints (I), pp. 801-806.</i>		
Okawa, Yoshihiro	Keio Univ	
Namerikawa, Toru	Keio Univ	
11:20-11:40	MoA22.5	
<i>Stochastic Model Predictive Control for Optimal Energy Management of District Heating Power Plants (I), pp. 807-812.</i>		
Verrilli, Francesca	Univ. of Sannio	
Parisio, Alessandra	Royal Inst. of Tech. (KTH)	
Glielmo, Luigi	Univ. of Sannio	
11:40-12:00	MoA22.6	
<i>Sharing Electricity Storage, pp. 813-820.</i>		
Wu, Chenye	ETH Zurich	
Kalathil, Dileep	Univ. of California, Berkeley	
Poolla, Kameshwar	Univ. of California at Berkeley	
Varaiya, Pravin P.	Univ. of California at Berkeley	
<b>MoA23</b>	Coppearleaf 4	
<b>Mechanical Systems (Regular Session)</b>		
Chair: Sreenath, Koushil	Carnegie Mellon Univ	
Co-Chair: Xin, Xin	Okayama Prefectural Univ	
10:00-10:20	MoA23.1	
<i>Controllability and Observability of an N-Link Underactuated Planar Robot with Different Actuator-Sensor Configurations: Active Intermediate Joint or Joints, pp. 821-826.</i>		
Xin, Xin	Okayama Prefectural Univ	

10:20-10:40	MoA23.2	
<i>3D Dynamic Walking on Stepping Stones with Control Barrier Functions</i> , pp. 827-834.		
Nguyen, Quan Hereid, Ayonga Grizzle, Jessy W. Ames, Aaron D. Sreenath, Koushil	Carnegie Mellon Univ Georgia Inst. of Tech Univ. of Michigan Georgia Inst. of Tech Carnegie Mellon Univ	
10:40-11:00	MoA23.3	
<i>Velocity Field Control with Energy Compensation Toward Therapeutic Exercise</i> , pp. 835-842.		
Fukui, Yoshiro Wada, Takahiro	Ritsumeikan Univ Ritsumeikan Univ	
11:00-11:20	MoA23.4	
<i>Continuous Finite-Time Control Approach for Series Elastic Actuator</i> , pp. 843-848.		
Wang, Meng Sun, Lei Yin, Wei Dong, Shuai Liu, Jingtai	Nankai Univ Nankai Univ Nankai Univ Nankai Univ Inst. of Robotics and Automatic Information System , Na	
11:20-11:40	MoA23.5	
<i>Proposal and Estimation of Improved Passive Dynamic Control for Two-Link Pneumatic Artificial Muscle Manipulator</i> , pp. 849-854.		
Kiyota, Takanori narimatu, kouki Minamiyama, Yasuhiro Yamamoto, Shuhei	The Univ. of Kitakyushu The Univ. of Kitakyusyu Kurume National Coll. of Tech Kitakyushu Univ	
11:40-12:00	MoA23.6	
<i>Improving DAC Resolution in Closed-Loop Control of Precision Mechatronic Systems Using Dithering</i> , pp. 855-861.		
Eielsen, Arnfinn Aas Fleming, Andrew J.	Univ. of Newcastle Univ. of Newcastle	
<b>MoB01</b>	Starvine 1	
<b>Network Analysis and Control II (Regular Session)</b>		
Chair: Johansson, Mikael Co-Chair: Pequito, Sergio	KTH - Royal Inst. of Tech Univ. of Pennsylvania	
13:30-13:50	MoB01.1	
<i>Saddle-Point Dynamics for Distributed Convex Optimization on General Directed Graphs</i> , pp. 862-866.		
Touri, Behrouz Gharesifard, Bahman	Univ. of Colorado Boulder Queens Univ. Canada	
13:50-14:10	MoB01.2	
<i>Growing Controllable Networks Via Whiskering and Submodular Optimization</i> , pp. 867-872.		
Hudoba de Badyn, Mathias Mesbahi, Mehran	Univ. of Washington Univ. of Washington	
14:10-14:30	MoB01.3	
<i>The Cost of Dishonesty on Optimal Distributed Frequency Control of Power Networks</i> , pp. 873-878.		
Monshizadeh, Nima De Persis, Claudio Simpson-Porco, John W.	Univ. of Groningen Univ. of Groningen Univ. of Waterloo	
14:30-14:50	MoB01.4	
<i>Consensus Speed Optimisation with Finite Leadership Perturbation in K-Nearest Neighbour Networks</i> , pp. 879-884.		
Clark, Ruaridh Punzo, Giuliano Macdonald, Malcolm	Univ. of Strathclyde Univ. of Strathclyde Univ. of Strathclyde	
14:50-15:10	MoB01.5	
<i>Decentralized Observability with Limited Communication between Sensors</i> , pp. 885-890.		
Alexandru, Andreea Beatrice Pequito, Sergio Jadbabaie, Ali Pappas, George J.	Univ. of Pennsylvania Univ. of Pennsylvania MIT Univ. of Pennsylvania	
15:10-15:30	MoB01.6	
<i>Laplacian Dynamics on Signed Networks</i> , pp. 891-896.		
Pan, Lulu Shao, Haibin Mesbahi, Mehran	Univ. of Washington Shanghai Jiao Tong Univ Univ. of Washington	
<b>MoB02</b>	Starvine 2	
<b>Agents-Based Systems II (Regular Session)</b>		
Chair: Wang, Chen Co-Chair: Sakurama, Kazunori	Peking Univ Tottori Univ	
13:30-13:50	MoB02.1	
<i>Multi-Stage Discrete Time Dynamic Average Consensus</i> , pp. 897-903.		
Franceschelli, Mauro Gasparri, Andrea	Univ. of Cagliari Univ. of "Roma Tre"	
13:50-14:10	MoB02.2	
<i>Distance-Based Control of K4 Formation with Almost Global Convergence</i> , pp. 904-909.		
Park, Myoung-Chul Sun, Zhiyong Trinh, Hoang Minh Anderson, Brian D.O. Ahn, Hyo-Sung	Gwangju Inst. of Science and Tech. (GIST) Australian National Univ Gwangju Inst. of Science and Tech. (GIST) Australian National Univ Gwangju Inst. of Science and Tech. (GIST)	
14:10-14:30	MoB02.3	
<i>Synchronization in an Homogeneous, Time-Varying Network with Nonuniform Time-Varying Communication Delays</i> , pp. 910-915.		
Stoorvogel, Anton A. Saberi, Ali Zhang, Meirong	Univ. of Twente Washington State Univ Washington State Univ	
14:30-14:50	MoB02.4	
<i>Controlling Anonymous Mobile Agents to Form a Circle Formation in a Plane without Collision</i> , pp. 916-921.		
Wang, Chen Xie, Guangming	Peking Univ Peking Univ	
14:50-15:10	MoB02.5	
<i>Further Analysis on Graph Rigidity</i> , pp. 922-927.		
Trinh, Hoang Minh Park, Myoung-Chul	Gwangju Inst. of Science and Tech. (GIST) Gwangju Inst. of Science and Tech. (GIST)	

Sun, Zhiyong	Australian National Univ	Champaign
Anderson, Brian D.O.	Australian National Univ	Univ. of Illinois at Urbana-Champaign
Ahn, Hyo-Sung	Gwangju Inst. of Science and Tech. (GIST)	Univ. of Illinois, Urbana-Champaign
Pham, Viet Hoang	GIST	Univ. of Illinois at Urbana-Champaign
15:10-15:30	MoB02.6	Univ. of Illinois at Urbana-Champaign
<i>Distributed Control of Networked Multi-Agent Systems for Formation with Freedom of Special Euclidean Group</i> , pp. 928-932.		Arizona State Univ
Sakurama, Kazunori	Tottori Univ	
<b>MoB03</b>	Starvine 3	
<b>Cooperative Control II (Regular Session)</b>		
Chair: Aghdam, Amir G.	Concordia Univ	
Co-Chair: Yoon, Se Young (Pablo)	Univ. of New Hampshire	
13:30-13:50	MoB03.1	MoB04.1
<i>Distributed Control and Parameter Estimation for Homogeneous Lagrangian Multi-Agent Systems</i> , pp. 933-938.		
Bechlioulis, Charalampos P.	National Tech. Univ. of Athens	Ogura, Masaki
Demetriou, Michael A.	Worcester Pol. Inst	Preciado, Victor M.
Kyriakopoulos, Kostas J.	National Tech. Univ. of Athens	
13:50-14:10	MoB03.2	MoB04.2
<i>Weighted Centroid Tracking Control for Multi-Agent Systems</i> , pp. 939-944.		
Yang, Qingkai	Univ. of Groningen	Georgia Inst. of Tech
Cao, Ming	Univ. of Groningen	Georgia Inst. of Tech
Fang, Hao	Beijing Inst. of Tech	Weitz, Joshua
Chen, Jie	Beijing Inst. of Tech	Shamma, Jeff S.
14:10-14:30	MoB03.3	KAUST
<i>Learning and Synchronization of Movement Primitives for Bimanual Manipulation Tasks</i> , pp. 945-950.		MoB04.3
Thota, Pavan Kumar	Univ. of Connecticut, UConn	Sundaram, Shreyas
Ravichandar, Harish	Univ. of Connecticut	Purdue Univ
Dani, Ashwin P	Univ. of Connecticut	
14:30-14:50	MoB03.4	MoB04.4
<i>Cooperative Output Regulation of Multi-Agent Systems with Incomplete Exosystem Measurement</i> , pp. 951-956.		
Basu, Himadri	Univ. of New Hampshire	Characterizing the Positive Semidefiniteness of Signed Laplacians Via Effective Resistances (I), pp. 985-990.
Yoon, Se Young (Pablo)	Univ. of New Hampshire	
14:50-15:10	MoB03.5	
<i>On a Relation between Graph Signal Processing and Multi-Agent Consensus</i> , pp. 957-961.		
Izumi, Shinsaku	Okayama Prefectural Univ	Chen, Wei
Azuma, Shun-ichi	Kyoto Univ	Liu, Ji
Sugie, Toshiharu	Kyoto Univ	
15:10-15:30	MoB03.6	Univ. of California at Berkeley
<i>Consensus by Maximum Hands-Off Distributed Control with Sampled-Data State Observation</i> , pp. 962-966.		Univ. of Illinois at Urbana-Champaign
Ikeda, Takuya	Kyoto Univ	
Nagahara, Masaaki	The Univ. of Kitakyushu	Chen, Yongxin
Kashima, Kenji	Kyoto Univ	Khong, Sei Zhen
		Wang, Dan
		Basar, Tamer
		Qiu, Li
		Johansson, Karl H.
15:10-15:30	MoB03.6	Hong Kong Univ. of Sci. & Tech
<i>On a Framework for Analysis and Design of Cascades on Boolean Networks</i> , pp. 997-1002.		Royal Inst. of Tech
Kearney, Griffin	Syracuse Univ	MoB04.5
Fardad, Makan	Syracuse Univ	
<b>MoB04</b>	Starvine 4	
<b>Analysis and Control of Complex Network Dynamics (Invited Session)</b>		
Chair: Bolouki, Sadegh	Univ. of Illinois, Urbana-	
		<b>MoB05</b>
		Starvine 5
<b>Distributed and Large-Scale Optimization II (Invited Session)</b>		
Chair: Nedich, Angelia	Univ. of Illinois, Urbana-Champaign	
Co-Chair: Olshevsky, Alexander	Univ. of Illinois at Urbana-Champaign	

Organizer: Nedich, Angelia	Arizona State Univ	<i>LQG Control for Systems with Random Unbounded Communication Delay</i> , pp. 1048-1055.	
Organizer: Notarstefano, Giuseppe	Univ. Del Salento	Bengtsson, Fredrik Chalmers Univ	
Organizer: Olshevsky, Alexander	Boston Univ	Hassibi, Babak Caltech	
13:30-13:50	MoB05.1	Wik, Torsten Chalmers Univ. of Tech	
<i>An Exact Distributed Newton Method for Reinforcement Learning (I)</i> , pp. 1003-1008.			
Tutunov, Rasul	Univ. of Pennsylvania		
Bou Ammar, Haitham	Princeton Univ		
Jadbabaie, Ali	MIT		
13:50-14:10	MoB05.2		
<i>Disciplined Convex-Concave Programming</i> , pp. 1009-1014.			
Shen, Xinyue	Tsinghua Univ		
Diamond, Steven	Stanford Univ		
Gu, Yuantao	Tsinghua Univ		
Boyd, Stephen	Stanford Univ		
14:10-14:30	MoB05.3		
<i>Line Search for Averaged Operator Iteration (I)</i> , pp. 1015-1022.			
Giselsson, Pontus	Lund Univ	Reissig, Gunther Univ. of the Federal Armed Forces Munich	
Fält, Mattias	Lund Univ		
Boyd, Stephen	Stanford Univ		
14:30-14:50	MoB05.4		
<i>A Geometrically Convergent Method for Distributed Optimization Over Time-Varying Graphs (I)</i> , pp. 1023-1029.			
Nedich, Angelia	Univ. of Illinois, Urbana-Champaign	Arutyunov, Aram V. Peoples Friendship Univ. Russia	
Olshevsky, Alexander	Boston Univ	Shvartsman, Ilya Penn State Harrisburg	
Shi, Wei	Boston Univ	Zhukovskaya, Zukhra Peoples' Friendship Univ. of Russia, Faculty of Science, D	
14:50-15:10	MoB05.5		
<i>Approximate Projections for Decentralized Optimization with SDP Constraints</i> , pp. 1030-1035.			
Lee, Soomin	Georgia Inst. of Tech		
Zavlanos, Michael M.	Duke Univ		
15:10-15:30	MoB05.6		
<i>Exponentially Fast Distributed Coordination for Nonsmooth Convex Optimization (I)</i> , pp. 1036-1041.			
Niederlaender, Simon	Univ. of Stuttgart	Dower, Peter M. The Univ. of Melbourne	
Allgöwer, Frank	Univ. of Stuttgart	McEneaney, William M. Univ. California San Diego	
Cortes, Jorge	Univ. of California, San Diego	Cantoni, Michael Univ. of Melbourne	
<b>MoB06</b>	Starvine 6		
<b>Optimal Control II (Regular Session)</b>			
Chair: Dower, Peter M.	The Univ. of Melbourne	<b>MoB07</b>	Starvine 7
Co-Chair: Reissig, Gunther	Univ. of the Federal Armed Forces Munich	<b>Optimization Algorithms II (Regular Session)</b>	
13:30-13:50	MoB06.1	Chair: Zhu, Shanying Nanyang Tech. Univ	
<i>Carleman Discretization of Impulsive Systems: Application to the Optimal Control Problem of Anti-Angiogenic Tumor Therapies (I)</i> , pp. 1042-1047.		Co-Chair: Kekatos, Vassilis Virginia Tech	
Cacace, Filippo	Univ. Campus Biomedico Di Roma		
Cusimano, Valerio	Univ. Campus Bio-Medico Di Roma		
Germani, Alfredo	Univ. Dell'aquila		
Palumbo, Pasquale	IASI-CNR		
13:50-14:10	MoB06.2		
<i>A Quadratically Convergent Primal Decomposition Algorithm with Soft Coupling for Nonlinear Parameter Estimation</i> , pp. 1086-1092.			
Kouzoupis, Dimitris		13:30-13:50	MoB07.1
Quirynen, Rien			
Lago Garcia, Jesus			
Erhard, Michael			
Diehl, Moritz			
Xu, Jimming			
Zhu, Shanying			
Soh, Yeng Chai			
Xie, Lihua			
14:10-14:30	MoB07.3		
<i>A Forward-Backward Bregman Splitting Scheme for Regularized Distributed Optimization Problems</i> , pp. 1093-1098.			
Xu, Jimming			
Zhu, Shanying			
Soh, Yeng Chai			
Xie, Lihua			

14:30-14:50	MoB07.4	Bakolas, Efstathios	The Univ. of Texas at Austin
<i>Exploiting Convexity in Direct Optimal Control: A Sequential Convex Quadratic Programming Method</i> , pp. 1099-1104.			
Verschueren, Robin	Univ. of Freiburg		
Van Duijkeren, Niels	KU Leuven		
Quirynen, Rien	KU Leuven		
Diehl, Moritz	Univ. of Freiburg		
14:50-15:10	MoB07.5		
<i>A Generalized Frank-Wolfe Approach to Decentralized Electric Vehicle Charging (I)</i> , pp. 1105-1111.			
Zhang, Liang	Univ. of Minnesota		
Kekatos, Vassilis	Virginia Tech		
Giannakis, Georgios B.	Univ. of Minnesota		
15:10-15:30	MoB07.6		
<i>Extremum Seeking Control for Multi-Objective Optimization Problems</i> , pp. 1112-1118.			
Kumar, Saurav	Univ. of Texas at Dallas		
Gans, Nicholas	Univ. of Texas at Dallas		
<b>MoB08</b>	Starvine 8		
<b>Stochastic Optimal Control I (Regular Session)</b>			
Chair: Theodorou, Evangelos	Georgia Inst. of Tech		
A.			
Co-Chair: Bakolas, Efstathios	The Univ. of Texas at Austin		
13:30-13:50	MoB08.1		
<i>Stochastic Drift Counteraction Optimal Control and Enhancing Convergence of Value Iteration</i> , pp. 1119-1124.			
Zidek, Robert A. E.	Univ. of Michigan		
Kolmanovsky, Ilya V.	The Univ. of Michigan		
13:50-14:10	MoB08.2		
<i>Cyber Physical Attacks with Control Objectives and Detection Constraints</i> , pp. 1125-1130.			
Chen, Yuan	Carnegie Mellon Univ		
Kar, Soummya	Carnegie Mellon Univ		
Moura, Jose' M. F.	Carnegie Mellon Univ		
14:10-14:30	MoB08.3		
<i>Automated Synthesis of Low-Rank Control Systems from Sc-LTL Specifications Using Tensor-Train Decompositions</i> , pp. 1131-1138.			
Alora, John Irvin	MIT		
Gorodetsky, Alex	Massachusetts Inst. of Tech		
Karaman, Sertac	Massachusetts Inst. of Tech		
Marzouk, Youssef	Massachusetts Inst. of Tech		
Lowry, Nathan	C.S. Draper Lab		
14:30-14:50	MoB08.4		
<i>On the Stochastic Minimum Principle for Hybrid Systems</i> , pp. 1139-1144.			
Pakniyat, Ali	McGill Univ		
Caines, Peter E.	McGill Univ		
14:50-15:10	MoB08.5		
<i>Infinite Dimensional Control of Doubly Stochastic Jump Diffusions</i> , pp. 1145-1152.			
Bakshi, Kaivalya S.	Georgia Inst. of Tech		
Theodorou, Evangelos A.	Georgia Inst. of Tech		
15:10-15:30	MoB08.6		
<i>Optimal Covariance Control for Discrete-Time Stochastic Linear Systems Subject to Constraints</i> , pp. 1153-1158.			
<b>MoB09</b>	Starvine 9		
<b>Estimation II (Regular Session)</b>			
Chair: Sinopoli, Bruno	Carnegie Mellon Univ		
Co-Chair: Bikcora, Can	Eindhoven Univ. of Tech		
13:30-13:50	MoB09.1		
<i>Adaptive Input Estimation for Nonminimum-Phase Discrete-Time Systems</i> , pp. 1159-1164.			
Ansari, Ahmad	Univ. of Michigan		
Bernstein, Dennis S.	Univ. of Michigan		
13:50-14:10	MoB09.2		
<i>On Deterministic Attitude Observers on the Special Orthogonal Group SO(3)</i> , pp. 1165-1170.			
Berkane, Soulaimane	Western Univ		
Tayebi, Abdelhamid	Lakehead Univ		
14:10-14:30	MoB09.3		
<i>Efficient Cauchy Estimation Via a Pre-Computational Technique</i> , pp. 1171-1178.			
Bai, Yu	UCLA		
Speyer, Jason L.	Univ. of California at Los Angeles		
Idan, Moshe	Tech. - Israel Institute of Tech		
14:30-14:50	MoB09.4		
<i>Design of Variable Exponential Forgetting for Estimation of the Statistics of the Normal Distribution</i> , pp. 1179-1184.			
Dokoupil, Jakub	CEIT, Brno Univ. of Tech		
Vaclavek, Pavel	Brno Univ. of Tech		
14:50-15:10	MoB09.5		
<i>A Min-Min Approach to Non-Blind and Blind Parameter Estimation under Admissibility and Domination Constraints</i> , pp. 1185-1191.			
Bikcora, Can	Eindhoven Univ. of Tech		
Weiland, Siep	Eindhoven Univ. of Tech		
15:10-15:30	MoB09.6		
<i>A Bayesian Approach to Joint Attack Detection and Resilient State Estimation</i> , pp. 1192-1198.			
Forti, Nicola	Univ. of Florence		
Battistelli, Giorgio	Univ. of Florence		
Chisci, Luigi	Univ. Di Firenze		
Sinopoli, Bruno	Carnegie Mellon Univ		
<b>MoB10</b>	Starvine 10		
<b>Identification II (Regular Session)</b>			
Chair: Bemporad, Alberto	IMT Inst. for Advanced Studies Lucca		
Co-Chair: Welsh, James S.	Univ. of Newcastle		
13:30-13:50	MoB10.1		
<i>Estimation of a Drone's Rotational Dynamics with Piloted Android Flight Data</i> , pp. 1199-1204.			
Alsharif, Mohammad	Uni Bremen		
Holzel, Matthew	Univ. of Bremen		
13:50-14:10	MoB10.2		
<i>Parameter and Delay Estimation of Continuous-Time Models Utilizing Multiple Filtering</i> , pp. 1205-1210.			
Ha, Huong	Univ. of Newcastle		
Welsh, James S.	Univ. of Newcastle		

14:10-14:30	MoB10.3	<i>Controller for Uncertain Euler-Lagrange Systems</i> , pp. 1261-1266.
On the Effects of Changing Reference Command As Humans Learn to Control Dynamic Systems, pp. 1211-1216.		Basu Roy, Sayan Indian Inst. of Tech. Delhi
Matveeva, Faina Seyyedmousavi, Seyyedalireza Zhang, Xingye Seigler, Thomas M. Hoagg, Jesse B.	Univ. of Kentucky Univ. of Kentucky Univ. of Kentucky Univ. of Kentucky Univ. of Kentucky	Bhasin, Shubhendu Indian Inst. of Tech Kar, Indra Narayan Indian Inst. of Tech. Delhi
14:30-14:50	MoB10.4	15:10-15:30 MoB11.6
On System Identification for ARMAX Models Based on the Variational Bayesian Method, pp. 1217-1222.		<i>Fixed-Time Adaptive Observer for Linear Time-Invariant Systems</i> , pp. 1267-1272.
Fujimoto, Kenji Takaki, Yuji	Kyoto Univ Kyoto Univ	Oliva-Fonseca, Pablo Univ. Nacional Autonoma De Mexico
14:50-15:10	MoB10.5	Rueda-Escobedo, Juan G. Univ. Nacional Autónoma De México
Alternative Form of Predictor Based Identification of LPV-SS Models with Innovation Noise, pp. 1223-1228.		Moreno, Jaime A. Univ. Nacional Autonoma De Mexico-UNAM
Cox, Pepijn B. Tóth, Roland	Eindhoven Univ. of Tech Eindhoven Univ. of Tech	
15:10-15:30	MoB10.6	<b>MoB12</b> Starvine 12
Identification of Linear Dynamic Errors-In-Variables Systems with a Dynamic Uncertain Input Using the EM Algorithm, pp. 1229-1234.		<b>Fault Detection and Tolerance I</b> (Regular Session)
Wu, Ouyang Hariprasad, K Huang, Biao Forbes, J. Fraser	Univ. of Alberta Univ. of Alberta Univ. of Alberta Univ. of Alberta	Chair: Eun, Yongsoon DGIST Co-Chair: Ferrari-Trecate, Giancarlo Univ. Degli Studi Di Pavia
13:30-13:50	MoB12.1	13:30-13:50 MoB12.1
Adaptive Hidden Mode Tracking Control with Input Constraints and Bounded Disturbances, pp. 1235-1242.		<i>Identifying Covert Data-Manipulators in Power System Estimation Loops (I)</i> , pp. 1273-1278.
Yong, Sze Zheng Frazzoli, Emilio	Univ. of Michigan Massachusetts Inst. of Tech	Liao, Mang North Carolina State Univ Chakrabortty, Aranya North Carolina State Univ
13:50-14:10	MoB11.2	13:50-14:10 MoB12.2
Adaptive Rejection of Periodic Disturbances Acting on Linear Systems with Unknown Dynamics, pp. 1243-1248.		<i>Stator Interturn Fault Diagnostics Relevant Modelling of Squirrel Cage Induction Motor</i> , pp. 1279-1284.
Shahsavari, Behrooz Pan, Jinwen Horowitz, Roberto	Univ. of California, Berkeley Univ. of Science and Tech. of China Univ. of California at Berkeley	Duvvuri, Sri Satya Sita Rama Indian Inst. of Tech. Hyderabad Sarah Babu Detroja, Ketan P. Indian Inst. of Tech. Hyderabad
14:10-14:30	MoB11.3	14:10-14:30 MoB12.3
Newton-Based Extremum Seeking for Higher Derivatives of Unknown Maps with Delays (I), pp. 1249-1254.		<i>Scalable Monitoring of Interconnected Stochastic Systems</i> , pp. 1285-1290.
Rusiti, Damir Oliveira, Tiago Roux Mills, Greg Krstic, Miroslav	Tech. Univ. of Munich State Univ. of Rio De Janeiro Univ. of California, San Diego Univ. of California, San Diego	Boem, Francesca Imperial Coll. London Carli, Ruggero Univ. of Padova Farina, Marcello Pol. Di Milano Ferrari-Trecate, Giancarlo Ec. Pol. Fédérale De Lausanne Parisini, Thomas Imperial Coll. & Univ. of Trieste
14:30-14:50	MoB11.4	14:30-14:50 MoB12.4
Adaptive Control for a Class of Nonlinear Systems with Output Constraints and Actuator Faults, pp. 1255-1260.		<i>Analysis of Set-Theoretic Unknown Input Observer and Interval Observer in Robust Fault Detection</i> , pp. 1291-1296.
Jin, Xu	Georgia Inst. of Tech	Xu, Feng Tsinghua Univ Tan, Junbo Tsinghua Univ Wang, Xueqian Tsinghua Univ Puig, Vicenc Univ. Pol. De Catalunya Liang, Bin Tsinghua Univ Yuan, Bo Tsinghua Univ Liu, Houde Tsinghua Univ
14:50-15:10	MoB11.5	14:50-15:10 MoB12.5
Parameter Convergence Via a Novel PI-Like Composite Adaptive		<i>Detection of Sensor Attack and Resilient State Estimation for Uniformly Observable Nonlinear Systems</i> , pp. 1297-1302.
		Kim, Junsoo Seoul National Univ Lee, Chanhwa Seoul National Univ Shim, Hyungbo Seoul National Univ Eun, Yongsoon DGIST Seo, Jin H. Seoul National Univ
15:10-15:30	MoB12.6	

<i>Characterization of a CUSUM Model-Based Sensor Attack Detector</i> , pp. 1303-1309.			
Murguia, Carlos	Singapore Univ. of Tech. and Design		Eindhoven Univ. of Tech
Ruths, Justin	Univ. of Texas at Dallas		Univ. of California, Santa Barbara
<b>MoB13</b>	Starvine 13		Kyriakos G.
<b>Lyapunov Methods I (Regular Session)</b>			Organizer: Heemels, W.P.M.H.
Chair: Bianchini, Gianni	Univ. Degli Studi Di Siena		Eindhoven Univ. of Tech
Co-Chair: Gross, Dominic	ETH Zurich		Tech. Univ. München
13:30-13:50	MoB13.1		Organizer: Johansson, Karl H.
<i>A Constructive Stabilization Method Via System Immersion for Multi-Input Non-Affine Nonlinear Systems</i> , pp. 1310-1315.			Royal Inst. of Tech
Wu, Chengshuai	Zhejiang Univ		
Chen, Jian	Zhejiang Univ		
Wu, Zhongle	Zhejiang Univ		
Qu, Lisong	Zhejiang Univ		
Zhang, Kaixiang	Zhejiang Univ		
13:50-14:10	MoB13.2		
<i>Nonlinear Orbit Control with Longitude Tracking</i> , pp. 1316-1321.			
Leomanni, Mirko	Univ. Di Siena		
Bianchini, Gianni	Univ. Degli Studi Di Siena		
Garulli, Andrea	Univ. Di Siena		
Giannitrapani, Antonio	Univ. Di Siena		
14:10-14:30	MoB13.3		
<i>Sampled-Data Stabilisation of Feedforward Dynamics with Lyapunov Cross-Term</i> , pp. 1322-1327.			
Mattioni, Mattia	La Sapienza Univ. Di Roma		
Monaco, Salvatore	Univ. Di Roma		
Normand-Cyrot, Dorothée	CNRS-Supélec		
14:30-14:50	MoB13.4		
<i>Compensating for Changing Muscle Geometry of the Biceps Brachii During Neuromuscular Electrical Stimulation: A Switched Systems Approach</i> , pp. 1328-1333.			
Rouse, Courtney	Univ. of Florida		
Parikh, Anup	Univ. of Florida		
Duenas, Victor H	Univ. of Florida		
Cousin, Christian	Univ. of Florida		
Dixon, Warren E.	Univ. of Florida		
14:50-15:10	MoB13.5		
<i>Incremental L2-Gain Analysis of Piecewise-Affine Systems Using Piecewise Quadratic Storage Functions</i> , pp. 1334-1339.			
Waitman, Sérgio	Ec. Centrale De Lyon		
Massioni, Paolo	INSA De Lyon		
Bako, Laurent	Ec. Centrale De Lyon		
Scorletti, Gerard	Ec. Centrale De Lyon		
Fromion, Vincent	INRA		
15:10-15:30	MoB13.6		
<i>A Relaxed Lyapunov Condition for Input-To-State Stability of Discrete-Time Nonlinear Systems</i> , pp. 1340-1345.			
Gross, Dominic	ETH Zurich		
Stursberg, Olaf	Univ. of Kassel		
<b>MoB14</b>	Ironwood 1		
<b>Event-Triggered and Self-Triggered Control for Linear Systems (Invited Session)</b>			
13:30-13:50	MoB14.1		
<i>y -Invasive Event-Triggered and Self-Triggered Control for Perturbed Linear Systems (I)</i> , pp. 1346-1351.			
Brunner, Florian David	Univ. of Stuttgart		
Heemels, W.P.M.H.	Eindhoven Univ. of Tech		
Allgöwer, Frank	Univ. of Stuttgart		
13:50-14:10	MoB14.2		
<i>Dynamic Event-Triggered Control with Time Regularization for Linear Systems (I)</i> , pp. 1352-1357.			
Borgers, Dominicus Paulus	Eindhoven Univ. of Tech		
Dolk, Victor Sebastiaan	Eindhoven Univ. of Tech		
Heemels, W.P.M.H.	Eindhoven Univ. of Tech		
14:10-14:30	MoB14.3		
<i>Consistent Event-Triggered Methods for Linear Quadratic Control (I)</i> , pp. 1358-1363.			
Antunes, Duarte	Eindhoven Univ. of Tech. the Netherlands		
Asadi Khashoee, Behnam	Eindhoven Univ. of Tech		
14:30-14:50	MoB14.4		
<i>Timing Abstraction of Perturbed LTI Systems with L2-Based Event-Triggering Mechanism (I)</i> , pp. 1364-1369.			
Sharifi Kolarijani, Arman	Delft Univ. of Tech		
Mazo Jr., Manuel	Delft Univ. of Tech		
Keviczky, Tamas	Delft Univ. of Tech		
14:50-15:10	MoB14.5		
<i>Periodic Asynchronous Event-Triggered Control</i> , pp. 1370-1375.			
Fu, Anqi	Tech. Univ. of Delft		
Mazo Jr., Manuel	Delft Univ. of Tech		
15:10-15:30	MoB14.6		
<i>Event-Triggered H-Infinity Control for Unknown Continuous-Time Linear Systems Using Q-Learning</i> , pp. 1376-1381.			
Vamvoudakis, Kyriakos G.	Virginia Tech		
Ferraz, Henrique	Univ. of California, Santa Barbara		
<b>MoB15</b>	Ironwood 2		
<b>Control Synthesis of Infinite Dimensional Systems (Invited Session)</b>			
Chair: Motee, Nader	Lehigh Univ		
Co-Chair: Bonnet, Catherine	INRIA Saclay-Ile-De-France		
Organizer: Demetriou, Michael A.	Worcester Pol. Inst		
Organizer: Fahroo, Fariba	DARPA		
Organizer: Le Gorrec, Yann	Ensmm, Femto-St / As2m		
13:30-13:50	MoB15.1		
<i>Sub-Optimal Boundary Control of Semilinear PDEs Using a Dyadic Perturbation Observer (I)</i> , pp. 1382-1387.			
Paranjape, Aditya A.	Indian Inst. of Tech. Bombay		
Chung, Soon-Jo	California Inst. of Tech		
13:50-14:10	MoB15.2		
<i>Localized Stability Certificates for Spatially Distributed Systems (I)</i> ,			

pp. 1388-1393.		Otten, Jonas	Ruhr-Univ. Bochum
Motee, Nader	Lehigh Univ	Monnigmann, Martin	Ruhr-Univ. Bochum
Sun, Qiyu	Univ. of Central Florida		
14:10-14:30	MoB15.3	15:10-15:30	MoB16.6
<i>Fault Detection of Infinite Dimensional Systems in Presence of Disturbances (I)</i> , pp. 1394-1398.		<i>Observer Design for Triangular Nonlinear Systems Using Delayed Sampled-Output Measurements</i> , pp. 1447-1451.	
Baniamerian, Amir	Concordia Univ	Ahmed-Ali, Tarek	Grey Cnrs
Meskin, Nader	Qatar Univ	KAHELRAS, Mohamed	L2S
Khorasani, Khashayar	Concordia Univ	Folin, Théo	Univ. of Caen Basse-Normandie
14:30-14:50	MoB15.4	Giri, Fouad	Univ. of Caen Normandie
<i>Coprimeness of Fractional Representations (I)</i> , pp. 1399-1404.		Lamnabhi-Lagarrigue, Francoise	CNRS and EECI
Bonnet, Catherine	INRIA Saclay-Ile-De-France		
Yamamoto, Yutaka	Kyoto Univ		
14:50-15:10	MoB15.5		
<i>Output Feedback Stabilization for One-Dimensional Heat Equation with General External Disturbance (I)</i> , pp. 1405-1410.			
Feng, Hongyinping	School of Mathematical Sciences, Shanxi Univ	Chair: Keviczky, Tamas	Delft Univ. of Tech
Guo, Bao-Zhu	Acad. of Mathematics and Systems Science	Co-Chair: Muehlebach, Michael	ETH Zurich
15:10-15:30	MoB15.6	13:30-13:50	MoB17.1
<i>Post-Processing Finite-Horizon Parameterizing Manifolds for Optimal Control of Nonlinear Parabolic PDEs</i> , pp. 1411-1416.		<i>Verification of Model Predictive Control Laws Using Weispfenning's Quantifier Elimination by Virtual Substitution Algorithm</i> , pp. 1452-1457.	
Chekroun, Mickael	Univ. of California, Los Angeles	Siaulys, Kestutis	Univ. of Cambridge
Liu, Honghu	Virginia Pol. Inst. and State Univ	Maciejowski, Jan M.	Univ. of Cambridge
<b>MoB16</b>	Ironwood 3	13:50-14:10	MoB17.2
<b>Delay Systems II (Regular Session)</b>		<i>Tube-Based Anticipative Model Predictive Control for Linear Parameter-Varying Systems</i> , pp. 1458-1463.	
Chair: Olgac, Nejat	Univ. of Connecticut	Hanema, Jurre	Eindhoven Univ. of Tech
Co-Chair: Lamnabhi-Lagarrigue, Francoise	CNRS and EECI	Tóth, Roland	Eindhoven Univ. of Tech
13:30-13:50	MoB16.1	Lazar, Mircea	Eindhoven Univ. of Tech
<i>Thermoacoustic Instabilities Arising from Secondary Modes, an Analytical and Experimental Declaration</i> , pp. 1417-1422.		14:10-14:30	MoB17.3
Zalluhoglu, Umut	Univ. of Connecticut	Muehlebach, Michael	ETH Zurich
Olgac, Nejat	Univ. of Connecticut	D'Andrea, Raffaello	ETH
13:50-14:10	MoB16.2	14:30-14:50	MoB17.4
<i>Quaternion-Based <math>H^\infty</math> Attitude Tracking Control of Rigid Bodies with Time-Varying Delay in Attitude Measurements</i> , pp. 1423-1428.		Stellato, Bartolomeo	Univ. of Oxford
Vilela, João Vitor Cavalcanti	Univ. of Brasilia	Goulart, Paul	Univ. of Oxford
Figueiredo, Luis Felipe da Cruz	Univ. of Brasilia	14:50-15:10	MoB17.5
Ishihara, Joao Y.	Univ. of Brasilia	<i>Robust Output Feedback Model Predictive Control Based on Relaxed Barrier Functions</i> , pp. 1477-1483.	
14:10-14:30	MoB16.3	Feller, Christian	Univ. of Stuttgart
<i>Switching Time Domain Passivity Control for Multilateral Teleoperation Systems under Time Varying Delays</i> , pp. 1429-1434.		Ouerghi, Meriam	Stuttgart Univ
Ahmad, Usman	Dalhousie Univ	Ebenbauer, Christian	Univ. of Stuttgart
Pan, Ya-Jun	Dalhousie Univ	15:10-15:30	MoB17.6
14:30-14:50	MoB16.4	<i>Robust Stability Properties of MPC Iteration Schemes Based on Relaxed Barrier Functions</i> , pp. 1484-1489.	
<i>Finite-Time Unknown Input Observer for Linear Time-Delay Systems</i> , pp. 1435-1440.		Feller, Christian	Univ. of Stuttgart
Langueh, Kokou	CRISTAL Lille	Ebenbauer, Christian	Univ. of Stuttgart
Zheng, Gang	INRIA		
Floquet, Thierry	CNRS		
14:50-15:10	MoB16.5	<b>MoB18</b>	Ironwood 7
<i>Robust Optimization of Delay Differential Equations with State and Parameter Dependent Delays</i> , pp. 1441-1446.		<b>Robust Control I (Regular Session)</b>	
Chair: Garone, Emanuele	Univ. Libre De Bruxelles		
Co-Chair: Kiner, Diego	Univ. of California, Berkeley		

13:30-13:50	MoB18.1	Milanovic, Jovica V. Peskir, Goran Moriarty, John	The Univ. of Tasmania Univ. of Manchester Queen Mary Univ. of London
A Tractable Numerical Strategy for Robust MILP and Application to Energy Management, pp. 1490-1495.			
Pauphilet, Jean Kiner, Diego Faille, Damien El Ghaoui, Laurent	Ec. Pol Univ. of California, Berkeley Electricité De France Univ. of California at Berkeley		
13:50-14:10	MoB18.2		
Parametric Robust Positively Invariant Sets for Linear Systems with Scaled Disturbances, pp. 1496-1501.			
Schulze Darup, Moritz Schaich, Rainer Manuel Cannon, Mark	Univ. of Oxford Univ. of Oxford Univ. of Oxford		
14:10-14:30	MoB18.3		
An Explicit Reference Governor for the Robust Constrained Control of Nonlinear Systems, pp. 1502-1507.			
Nicotra, Marco M Garone, Emanuele	Univ. Libre De Bruxelles Univ. Libre De Bruxelles		
14:30-14:50	MoB18.4		
Understanding Robust Control Theory Via Stick Balancing, pp. 1508-1514.			
Leong, Yoke Peng Doyle, John C.	California Inst. of Tech California Inst. of Tech		
14:50-15:10	MoB18.5		
Robust Linear Quadratic Regulator for Uncertain Systems, pp. 1515-1520.			
Tzortzis, Ioannis Charalambous, Charalambos D. Charalambous, Themistoklis Kourtellaris, Christos K. Hadjicostis, Christoforos N.	Univ. of Cyprus Univ. of Cyprus Chalmers Univ. of Tech Univ. of Cyprus Univ. of Cyprus		
15:10-15:30	MoB18.6		
A Passivity-Based Controller for Motion Tracking and Damping Assignment for Compliantly Actuated Robots, pp. 1521-1528.			
Keppler, Manuel Lakatos, Dominic Ott, Christian Albu-Schaeffer, Alin	German Aerospace Center (DLR) German Aerospace Center (DLR) German Aerospace Center (DLR) German Aerospace Center (DLR)		
<b>MoB19</b>	Ironwood 8		
<b>Power Systems II (Regular Session)</b>			
Chair: Tanaka, Takashi Co-Chair: Bitar, Eilyan	KTH Royal Inst. of Tech Cornell Univ		
13:30-13:50	MoB19.1		
A Study on the Sensitivity Matrix in Power System State Estimation by Using Sparse Principal Component Analysis, pp. 1529-1535.			
Molin, Adam Sandberg, Henrik Johansson, Magnus	KTH Royal Inst. of Tech KTH Royal Inst. of Tech Svenska Kraftnät		
13:50-14:10	MoB19.2		
Application of Sequential Testing Problem to Online Detection of Transient Stability Status for Power Systems, pp. 1536-1541.			
Gonzalez, Jhonnny Kitapbayev, Yerkin Guo, Tingyan	Univ. of Manchester Boston Univ Univ. of Manchester		
14:10-14:30	MoB19.3		
Parameterized Supply Function Equilibrium in Power Networks, pp. 1542-1548.			
Lin, Weixuan Bitar, Eilyan	Cornell Univ Cornell Univ		
14:30-14:50	MoB19.4		
Incentivizing Truth-Telling in MPC-Based Load Frequency Control, pp. 1549-1555.			
Tanaka, Takashi Gupta, Vijay	KTH Royal Inst. of Tech Univ. of Notre Dame		
14:50-15:10	MoB19.5		
A Methodology for Generation Expansion Planning for Renewable Energy Economies, pp. 1556-1563.			
Rasouli, Mohammad Tenekezis, Demosthenis	Univ. of Michigan Univ. of Michigan, Ann Arbor		
15:10-15:30	MoB19.6		
A Tool for Power Flow Analysis of a Generalized Class of Droop Controllers for High-Voltage Direct-Current Transmission Systems, pp. 1564-1569.			
Zonetti, Daniele Ortega, Romeo Schiffer, Johannes	Univ. De Paris Sud XI LSS-SUPELEC Univ. of Leeds		
<b>MoB20</b>	Coppearleaf 1		
<b>Automotive Control I (Regular Session)</b>			
Chair: Gaspar, Peter Co-Chair: Siegel, Jason B.	Mta Sztki Univ. of Michigan		
13:30-13:50	MoB20.1		
Trajectory Tracking Based on Independently Controlled Variable-Geometry Suspension for In-Wheel Electric Vehicles, pp. 1570-1575.			
Nemeth, Balazs Fenyes, Daniel Gaspar, Peter Bokor, Jozsef	Mta Sztki Mta Sztki Mta Sztki MTA SZTAKI Hungarian Acad. of Sciences		
13:50-14:10	MoB20.2		
The Impact of Suspension Control on the Controllability of the Lateral Vehicle Dynamics, pp. 1576-1581.			
Gaspar, Peter Nemeth, Balazs Bokor, Jozsef Sename, Olivier Dugard, Luc	Mta Sztki Mta Sztki MTA SZTAKI Hungarian Acad. of Sciences Univ. Grenoble Alpes CNRS-Grenoble INP		
14:10-14:30	MoB20.3		
Multi-Automated Vehicle Coordination Using Decoupled Prioritized Path Planning for Multi-Lane One and Bi-Directional Traffic Flow Control, pp. 1582-1588.			
Graf Plessen, Mogens Bernardini, Daniele Esen, Hasan Bemporad, Alberto	IMT Lucca ODYS Srl DENSO Automotive Deutschland GmbH IMT Inst. for Advanced Studies Lucca		

14:30-14:50	MoB20.4	Privat, Yannick	CNRS and Univ. Paris 6
<i>Synthesis of an Energy-Optimal Self-Heating Strategy for Li-Ion Batteries (I)</i> , pp. 1589-1594.			
Mohan, Shankar	Univ. of Michigan		
Siegel, Jason B.	Univ. of Michigan		
Stefanopoulou, Anna G.	Univ. of Michigan		
Castanier, Matthew	US Army Tank Automotive Res. Development, and Engineering C		
Ding, Yi	U.S. Army Tank Automotive Res. Development, and Engineering		
14:50-15:10	MoB20.5		
<i>Design of a Fuel Economy Oriented Vehicle Longitudinal Speed Controller with Optimal Gear Sequence</i> , pp. 1595-1601.			
Jing, Junbo	The Ohio State Univ		
Ozatay, Engin	The Ohio State Univ		
Kurt, Arda	The Ohio State Univ		
Michelini, John	Ford Motor Company		
Filev, Dimitre P.	Ford Motor Company		
Ozguner, Umit	Ohio State Univ		
15:10-15:30	MoB20.6		
<i>Towards ECU-Ready Nonlinear Model Predictive Control: Tip-In Maneuver Case Study (I)</i> , pp. 1602-1607.			
Santin, Ondrej	Czech Tech. Univ. in Prague, Faculty of ElectricalEngineering		
Mikuláš, Ondřej	Honeywell Spol. S R. O		
Pachner, Daniel	Honeywell Lab		
Herceg, Martin	Honeywell, Spol. S.r.o		
Pekar, Jaroslav	Honeywell Spol S R.o		
<b>MoB21</b>	Coppearleaf 2		
<b>Modeling, Control, and Estimation with Application to the Medical Science (Invited Session)</b>			
Chair: Bonnard, Bernard	Inst. De Mathématiques De Bourgogne		
Co-Chair: Chyba, Monique	Univ. of Hawaii		
Organizer: Bonnard, Bernard	Inst. De Mathématiques De Bourgogne		
Organizer: Chyba, Monique	Univ. of Hawaii		
13:30-13:50	MoB21.1		
<i>Optimal Control of an Ensemble of Bloch Equations with Applications in MRI (I)</i> , pp. 1608-1613.			
Bonnard, Bernard	Inst. De Mathématiques De Bourgogne		
Rouot, Jérémie	INRIA Sophia Antipolis		
Jacquemard, Alain	Univ. De Bourgogne		
13:50-14:10	MoB21.2		
<i>Control of Reaction-Diffusion Equations on Time-Evolving Manifolds (I)</i> , pp. 1614-1619.			
Rossi, Francesco	Aix-Marseille Univ		
Pouradier Duteil, Nastassia	Rutgers Univ. Camden		
Yakoby, Nir	Rutgers Univ		
Piccoli, Benedetto	Rutgers Univ. - Camden		
14:10-14:30	MoB21.3		
<i>An Optimal Control Approach to Photoacoustic Tomography (I)</i> , pp. 1620-1624.			
Bergounioux, Maitine	Univ. D'orleans, FDP-MAPMO		
Haberkorn, Thomas	FDP-MAPMO, Univ. of Orleans		
14:30-14:50	MoB21.4		
<i>Cyclicity in Multivariate Time Series and Applications to Functional MRI Data (I)</i> , pp. 1625-1630.			
Baryshnikov, Yuly	UIUC		
Schlafly, Emily	Univ. of Illinois Urbana Champaign		
14:50-15:10	MoB21.5		
<i>Optimization of Prion Assemblies Fragmentation (I)</i> , pp. 1631-1636.			
Chyba, Monique	Univ. of Hawaii		
Coron, Jean-michel	Univ. Pierre Et Marie Curie		
Mileyko, Yuriy	Univ. of Hawaii		
Rezaei, Human	INRA		
15:10-15:30	MoB21.6		
<i>Dynamic Tensor Time Series Modeling and Analysis (I)</i> , pp. 1637-1642.			
Surana, Amit	United Tech. Res. Center		
Patterson, Geoffrey	Univ. of Hawaii at Manoa		
Rajapakse, Indika	Univ. of Michigan		
<b>MoB22</b>	Coppearleaf 3		
<b>Control of Computing Systems (Invited Session)</b>			
Chair: Papadopoulos, Alessandro Vittorio	Pol. Di Milano		
Co-Chair: Kerrigan, Eric C.	Imperial Coll. London		
Organizer: Papadopoulos, Alessandro Vittorio	Mälardalen Univ		
Organizer: Kerrigan, Eric C.	Imperial Coll. London		
13:30-13:50	MoB22.1		
<i>Feedback Scheduling for Energy-Efficient Real-Time Homogeneous Multiprocessor Systems (I)</i> , pp. 1643-1648.			
Thammawichai, Mason	Imperial Coll. London		
Kerrigan, Eric C.	Imperial Coll. London		
13:50-14:10	MoB22.2		
<i>A Control Theoretical Approach to Non-Intrusive Geo-Replication for Cloud Services (I)</i> , pp. 1649-1656.			
Dürango, Jonas	Lund Univ. Dept. Automatic Control		
Tärneberg, William	Lund Univ		
Tomás, Luis	Umeå Univ		
Tordsson, Johan	Umeå Univ		
Kihl, Maria	Lund Univ		
Maggio, Martina	Lund Univ		
14:10-14:30	MoB22.3		
<i>Cost Function Based Event Triggered Model Predictive Controllers Application to Big Data Cloud Services (I)</i> , pp. 1657-1662.			
CERF, Sophie	GIPSA-Lab/cnrs		
Berekmeri, Mihaly	GIPSA-Lab		
ROBU, Bogdan	GIPSA-Lab/cnrs		
Marchand, Nicolas	GIPSA-Lab		
Bouchenak, Sara	INSA Lyon		
14:30-14:50	MoB22.4		
<i>High-Speed Thermal Management for Power-Dense Microprocessors (I)</i> , pp. 1663-1668.			
Leva, Alberto	Pol. Di Milano		
Terraneo, Federico	Pol. Di Milano		
seva, Silvano	Pol. Di Milano		

giacomello, irene	Pol. Di Milano	
14:50-15:10	MoB22.5	
<i>Perspectives of Data-Driven LPV Modeling of Cloud Computing Systems</i> , pp. 1669-1674.		
PENAMAKURI, SESHA SAI KRISHNA	Iit Madras	
Singh, Durgesh	IIT Madras	
Pasumarthy, Ramkrishna	Indian Inst. of Tech. Madras	
15:10-15:30	MoB22.6	
<i>Neuromorphic-Computing-Based Feedback Control: A Cognitive Supervisory Control Framework</i> , pp. 1675-1680.		
Hui, Qing	Univ. of Nebraska-Lincoln	
Qiao, Wei	Univ. of Nebraska-Lincoln	
Peng, Chen	Univ. of Nebraska-Lincoln	
<b>MoB23</b>	Coppearleaf 4	
<b>Multivehicle Systems I</b> (Regular Session)		
Chair: Besselink, Bart	Univ. of Groningen	
Co-Chair: GREGOIRE, Jean	Mines ParisTech	
13:30-13:50	MoB23.1	
<i>Hierarchical Path Generation for Distributed Mission Planning of UAVs</i> , pp. 1681-1686.		
Yao, Weiran	Harbin Inst. of Tech	
Wan, Neng	Univ. of Minnesota Duluth	
Qi, Naiming	Harbin Inst. of Tech	
13:50-14:10	MoB23.2	
<i>Gear Management for Fuel-Efficient Heavy-Duty Vehicle Platooning (I)</i> , pp. 1687-1694.		
Turri, Valerio	KTH Royal Inst. of Tech	
Besselink, Bart	Univ. of Groningen	
Johansson, Karl H.	Royal Inst. of Tech	
14:10-14:30	MoB23.3	
<i>Multi-Vehicle Collision Avoidance Via Hamilton-Jacobi Reachability and Mixed Integer Programming</i> , pp. 1695-1700.		
Chen, Mo	Univ. of California, Berkeley	
Shih, Jennifer C.	UC Berkeley	
Tomlin, Claire J.	UC Berkeley	
14:30-14:50	MoB23.4	
<i>Some Novel Traffic Coordination Problems and Their Analytical Study Based on Lagrangian Duality Theory</i> , pp. 1701-1708.		
Daugherty, Stephen Greysen	ISyE, Georgia Tech	
Reveliotis, Spyros	Georgia Inst. of Tech	
Mohler, Greg	GTRI, Georgia Tech	
14:50-15:10	MoB23.5	
<i>Vehicles Platoon Control in VANETs with Capacity Limitation and Packet Dropouts</i> , pp. 1709-1714.		
Wen, Shixi	Dalian Univ. of Tech	
Guo, Ge	Dalian Maritime Univ	
Wang, Wei	Dalian Univ. of Tech	
15:10-15:30	MoB23.6	
<i>Adaptation of Spacing Policy of Autonomous Vehicles Based on an Unknown Input and State Observer for a Virtual Predecessor Vehicle</i> , pp. 1715-1720.		
Rödönyi, Gábor	Inst. for Computer Science and Control, Hungarian Acad. Of	
Szabo, Zoltan	Mta Sztkaki	
<b>MoC01</b>	Starvine 1	
<b>Network Analysis and Control III</b> (Regular Session)		
Chair: Ishizaki, Takayuki	Tokyo Inst. of Tech	
Co-Chair: Pequito, Sergio	Univ. of Pennsylvania	
16:00-16:20	MoC01.1	
<i>Convex Gradient Controller Design for Incrementally Passive Systems with Quadratic Storage Functions</i> , pp. 1721-1726.		
Ishizaki, Takayuki	Tokyo Inst. of Tech	
Ueda, Asami	Tokyo Inst. of Tech	
Imura, Jun-ichi	Tokyo Inst. of Tech	
16:20-16:40	MoC01.2	
<i>A Networked Parallel Algorithm for Solving Linear Algebraic Equations</i> , pp. 1727-1732.		
You, Keyou	Tsinghua Univ	
Song, Shiji	Tsinghua Univ	
Tempo, Roberto	CNR-IEIIT, Pol. Di Torino	
16:40-17:00	MoC01.3	
<i>Impacts of Network Topology on the Performance of a Distributed Algorithm Solving Linear Equations</i> , pp. 1733-1738.		
Cao, Hong-Tai	Univ. of Southern California	
Gibson, Travis E.	Harvard Medical School	
Mou, Shaoshuai	Purdue Univ	
Liu, Yang-Yu	Harvard Medical School	
17:00-17:20	MoC01.4	
<i>Continuous Opinions and Discrete Actions in Social Networks: A Multi-Agent System Approach (I)</i> , pp. 1739-1744.		
Roy Chowdhury, Nilanjan	Indian Inst. of Tech. Bombay	
Morarescu, Irinel-Constantin	Cran Cnrs Umr 7039 - UI	
Martin, Samuel	Univ. De Lorraine	
Srikant, Sukumar	Indian Inst. of Tech. Bombay	
17:20-17:40	MoC01.5	
<i>Sensor and Actuator Placement for Zero-Shaping in Dynamical Networks</i> , pp. 1745-1750.		
Roy, Sandip	Washington State Univ	
Abad Torres, Jackeline	Escuela Pol. Nacional	
Xue, Mengran	Washington State Univ	
17:40-18:00	MoC01.6	
<i>Multi-Leader Selection in Complex Networks</i> , pp. 1751-1756.		
Wang, Dan	Hong Kong Univ. of Science and Tech	
Chen, Wei	Univ. of California at Berkeley	
Qiu, Li	Hong Kong Univ. of Sci. & Tech	
<b>MoC02</b>	Starvine 2	
<b>Agents-Based Systems III</b> (Regular Session)		
Chair: Dominguez-Garcia, Alejandro D.	Univ. of Illinois at Urbana-Champaign	
Co-Chair: Hadjicostis, Christoforos N.	Univ. of Cyprus	
16:00-16:20	MoC02.1	
<i>Semi-Global Bipartite Consensus for Linear Multi-Agent Systems Subject to Actuator Saturation</i> , pp. 1757-1762.		
Fu, Weiming	Univ. of Science and Tech. of China	
Qin, Jiahua	Univ. of Science and Tech. of	

		China Western Sydney Univ	<i>Optimal Event-Driven Multi-Agent Persistent Monitoring of a Finite Set of Targets</i> , pp. 1814-1819.
Zheng, Wei Xing			Boston Univ
Gao, Huijun		Harbin Inst. of Tech	Boston Univ
Shi, Guodong		The Australian National Univ	Boston Univ
16:20-16:40		MoC02.2	
<i>A Hybrid Systems Approach to Splay State Stabilization of Pulse Coupled Oscillators</i> , pp. 1763-1768.			
Ferrante, Francesco		Clemson Univ	
Wang, Yongqiang		Clemson Univ	
16:40-17:00		MoC02.3	
<i>Distributed Balancing in Digraphs under Interval Constraints</i> , pp. 1769-1774.			
Hadjicostis, Christoforos N.		Univ. of Cyprus	
Dominguez-Garcia, Alejandro D.		Univ. of Illinois at Urbana-Champaign	
17:00-17:20		MoC02.4	
<i>Distributed Integer Weight Balancing within Interval Constraints</i> , pp. 1775-1780.			
Rikos, Apostolos I.		Univ. of Cyprus	
Hadjicostis, Christoforos N.		Univ. of Cyprus	
17:20-17:40		MoC02.5	
<i>State Observation and Parameter Estimation in Cyclic Pursuit Systems</i> , pp. 1781-1786.			
Galloway, Kevin		United States Naval Acad	
DeVries, Levi		United States Naval Acad	
17:40-18:00		MoC02.6	
<i>Multi-Owner Multi-User Privacy</i> , pp. 1787-1793.			
Koufogiannis, Fragkiskos		Univ. of Pennsylvania	
Pappas, George J.		Univ. of Pennsylvania	
<b>MoC03</b>		Starvine 3	
<b>Cooperative Control III (Regular Session)</b>			
Chair: Zavlanos, Michael M.		Duke Univ	
Co-Chair: Dimarogonas, Dimos V.		Royal Inst. of Tech	
16:00-16:20		MoC03.1	
<i>Simultaneous Intermittent Communication Control and Path Optimization in Networks of Mobile Robots</i> , pp. 1794-1799.			
Kantaros, Yiannis		Duke Univ	
Zavlanos, Michael M.		Duke Univ	
16:20-16:40		MoC03.2	
<i>Enforcing Biconnectivity in Multi-Robot Systems</i> , pp. 1800-1805.			
Zareh Eshghdoust, Mehran		Univ. of Modena and Reggio Emilia	
Sabattini, Lorenzo		Univ. of Modena and Reggio Emilia	
Secchi, Cristian		Univ. of Modena & Reggio Emilia	
16:40-17:00		MoC03.3	
<i>Bearing-Only Formation Control with Auxiliary Distance Measurements, Leaders, and Collision Avoidance</i> , pp. 1806-1813.			
Tron, Roberto		Univ. of Pennsylvania	
Thomas, Justin		Univ. of Pennsylvania	
Loianno, Giuseppe		Univ. of Pennsylvania	
Daniilidis, Kostas		Univ. of Pennsylvania	
Kumar, Vijay		Univ. of Pennsylvania	
17:00-17:20		MoC03.4	
<b>MoC04</b>		Starvine 4	
<b>Input-Output Dynamics on Networks (Invited Session)</b>			
Chair: Abad Torres, Jackeline		Escuela Pol. Nacional	
Co-Chair: Roy, Sandip		Washington State Univ	
Organizer: Abad Torres, Jackeline		Escuela Pol. Nacional	
Organizer: Roy, Sandip		Washington State Univ	
16:00-16:20		MoC04.1	
<i>Input-Output Control of Composite Systems (I)</i> , pp. 1834-1839.			
Montenbruck, Jan Maximilian		Univ. of Stuttgart	
Allgöwer, Frank		Univ. of Stuttgart	
16:20-16:40		MoC04.2	
<i>Quadratic Performance of Primal-Dual Methods with Application to Secondary Frequency Control of Power Systems (I)</i> , pp. 1840-1845.			
Simpson-Porco, John W.		Univ. of Waterloo	
Poolla, Bala Kameshwar		ETH Zürich	
Monshizadeh, Nima		Univ. of Groningen	
Dörfler, Florian		Swiss Federal Inst. of Tech. (ETH) Zurich	
16:40-17:00		MoC04.3	
<i>Input-Output Characteristics of the Power Transmission Network's Swing Dynamics (I)</i> , pp. 1846-1852.			
Koorehdavoudi, Kasra		Washington State Univ	
Hatami, Mohammadreza		Washington State Univ	
Roy, Sandip		Washington State Univ	
Venkatasubramanian, Vaithianathan		Washington State Univ	
Panciatici, Patrick		RTE	
Xavier, Florent		RTE, French TSO	
Abad Torres, Jackeline		Escuela Pol. Nacional	
17:00-17:20		MoC04.4	
<i>Pattern Control for Networks of Ginzburg-Landau Oscillators Via Markov Decision Processes (I)</i> , pp. 1853-1858.			
Chapman, Airlie		Univ. of Washington	
Schoof, Eric		Univ. of Washington	
Mesbahi, Mehran		Univ. of Washington	

17:20-17:40	MoC04.5	Starvine 6
<i>Scheduling of Control Nodes for Improved Network Controllability (I), pp. 1859-1864.</i>		
Zhao, Yingbo	Univ. of California, San Diego	
Pasqualetti, Fabio	Univ. of California, Riverside	
Cortes, Jorge	Univ. of California, San Diego	
17:40-18:00	MoC04.6	
<i>Information Efficiency of Communications for Networked Control in Cyber Physical Systems: When Carnot Meets Shannon, pp. 1865-1870.</i>		
Li, Husheng	Univ. of Tennessee	
<b>MoC05</b>	Starvine 5	
<b>Distributed and Large-Scale Optimization III (Invited Session)</b>		
Chair: Notarstefano, Giuseppe	Univ. Del Salento	
Co-Chair: Gharesifard, Bahman	Queens Univ. Canada	
Organizer: Nedich, Angelia	Arizona State Univ	
Organizer: Notarstefano, Giuseppe	Univ. Del Salento	
Organizer: Olshevsky, Alexander	Boston Univ	
16:00-16:20	MoC05.1	
<i>Secure Local Filtering Algorithms for Distributed Optimization (I), pp. 1871-1876.</i>		
Sundaram, Shreyas	Purdue Univ	
Gharesifard, Bahman	Queens Univ. Canada	
16:20-16:40	MoC05.2	
<i>A Duality-Based Approach for Distributed Min-Max Optimization with Application to Demand Side Management (I), pp. 1877-1882.</i>		
Notarnicola, Ivano	Univ. Del Salento	
Franceschelli, Mauro	Univ. of Cagliari	
Notarstefano, Giuseppe	Univ. Del Salento	
16:40-17:00	MoC05.3	
<i>Distributed Computation of the Perron-Frobenius Eigenvector (I), pp. 1883-1888.</i>		
Yang, Mu	Univ. of Oklahoma	
Tang, Choon Yik	Univ. of Oklahoma	
17:00-17:20	MoC05.4	
<i>Distributed Constrained Convex Optimization and Consensus Via Dual Decomposition and Proximal Minimization (I), pp. 1889-1894.</i>		
Falsone, Alessandro	Pol. Di Milano	
Margellos, Kostas	Univ. of Oxford	
Garatti, Simone	Pol. Di Milano	
Prandini, Maria	Pol. Di Milano	
17:20-17:40	MoC05.5	
<i>Using Big Steps in Coordinate Descent Primal-Dual Algorithms (I), pp. 1895-1899.</i>		
Bianchi, Pascal	Telecom ParisTech - CNRS/LTCI	
Fercoq, Olivier	Telecom ParisTech	
17:40-18:00	MoC05.6	
<i>A Primal Dual Type Algorithm with the <math>\\$O(1/t)\\$</math> Convergence Rate for Large Scale Constrained Convex Programs, pp. 1900-1905.</i>		
Yu, Hao	Univ. of Southern California	
Neely, Michael J.	Univ. of Southern California	
<b>MoC06</b>	Starvine 6	
<b>Optimal Control III (Regular Session)</b>		
Chair: L'Afflitto, Andrea	The Univ. of Oklahoma	
Co-Chair: Miao, Lei	Middle Tennessee State Univ	
16:00-16:20	MoC06.1	
<i>Budget-Constrained Infinite Horizon Optimal Control Problems with Linear Dynamics, pp. 1906-1911.</i>		
Lykina, Valeriya	Brandenburg Univ. of Tech. at Cottbus-Senftenberg	
Pickenhain, Sabine	Brandenburg Univ. of Tech. at Cottbus-Senftenberg	
16:20-16:40	MoC06.2	
<i>Optimal Decentralized Queueing System with Diversion: Using Incentives to Influence Behavior, pp. 1912-1919.</i>		
Desfontaines, Lucie	Ec. Pol	
Wynter, Laura	IBM Watson Res. Center	
16:40-17:00	MoC06.3	
<i>Maximum Torque-Per-Current Control of Induction Motors Via Semidefinite Programming, pp. 1920-1925.</i>		
Moehle, Nicholas	Stanford Univ	
Boyd, Stephen	Stanford Univ	
17:00-17:20	MoC06.4	
<i>Discrete-Time Inverse Optimal Control with Partial-State Information: A Soft-Optimality Approach with Constrained State Estimation, pp. 1926-1932.</i>		
Molloy, Timothy Liam	Queensland Univ. of Tech	
Tsai, Dorian	Queensland Univ. of Tech	
Ford, Jason	Queensland Univ. of Tech	
Perez, Tristan	Queensland Univ. of Tech	
17:20-17:40	MoC06.5	
<i>Differential Games, Asymptotic Stabilization, and Robust Optimal Control of Nonlinear Systems, pp. 1933-1938.</i>		
L'Afflitto, Andrea	The Univ. of Oklahoma	
17:40-18:00	MoC06.6	
<i>Receding Horizon Control with Two Planning Horizons for a Class of Discrete Event Systems with Real-Time Constraints, pp. 1939-1944.</i>		
Miao, Lei	Middle Tennessee State Univ	
<b>MoC07</b>	Starvine 7	
<b>Optimization Algorithms III (Regular Session)</b>		
Chair: Mesbahi, Mehran	Univ. of Washington	
Co-Chair: Patrinos, Panagiotis	KU Leuven	
16:00-16:20	MoC07.1	
<i>Worst Case Competitive Analysis for Online Conic Optimization, pp. 1945-1950.</i>		
Eghbali, Reza	Univ. of Washington	
Fazel, Maryam	Univ. of Washington	
Mesbahi, Mehran	Univ. of Washington	
16:20-16:40	MoC07.2	
<i>A Decentralized Quasi-Newton Method for Dual Formulations of Consensus Optimization, pp. 1951-1958.</i>		
Eisen, Mark	Univ. of Pennsylvania	
Mokhtari, Aryan	Univ. of Pennsylvania	
Ribeiro, Alejandro	Univ. of Pennsylvania	
16:40-17:00	MoC07.3	
<i>New Primal-Dual Proximal Algorithms for Distributed Optimization,</i>		

pp. 1959-1964.			
Latafat, Puya	IMT School for Advanced Studies Lucca	Charalambous, Charalambos D.	Univ. of Cyprus
Stella, Lorenzo	IMT Inst. for Advanced Studies Lucca	Charalambous, Themistoklis	Chalmers Univ. of Tech
Patrinos, Panagiotis	KU Leuven		
17:00-17:20	MoC07.4	17:40-18:00	MoC08.6
<i>A Sequential Parametric Convex Approximation Method for Solving Bilinear Matrix Inequalities</i> , pp. 1965-1970.		<i>Spectral Variational Integrators for Trajectory Optimization under Parametric Uncertainties and Stochastic Disturbances</i> , pp. 2016-2022.	
Lee, Donghwan	Purdue Univ	Boutselis, George I.	Georgia Inst. of Tech
Hu, Jianghai	Purdue Univ	Theodorou, Evangelos A.	Georgia Inst. of Tech
17:20-17:40	MoC07.5		
<i>Fast Incremental Method for Smooth Nonconvex Optimization</i> , pp. 1971-1977.			
Jakkam Reddi, Sashank	Carnegie Mellon Univ		
Sra, Suvrit	MIT		
Poczos, Barnabas	Carnegie Mellon Univ		
Smola, Alex	Carnegie Mellon Univ		
17:40-18:00	MoC07.6	16:00-16:20	MoC09.1
<i>The Use of the \$r\$ Heuristic in Covariance Completion Problems</i> , pp. 1978-1983.		<i>Cross Approximation-Based Quadrature Filter</i> , pp. 2023-2028.	
Grussler, Christian	Lund Univ	Wang, Zhong	Northwestern Pol. Univ
Zare, Armin	Univ. of Minnesota	Li, Yan	Northwestern Pol. Univ
Jovanovic, Mihailo	Univ. of Minnesota		
Rantzer, Anders	Lund Univ		
<b>MoC08</b>	Starvine 8	16:20-16:40	MoC09.2
<b>Stochastic Optimal Control II (Regular Session)</b>		<i>Mean-Square Estimation with High Dimensional Log-Concave Noise</i> , pp. 2029-2034.	
Chair: Lamperski, Andrew	Univ. of Minnesota	Kulkarni, Ankur A.	Indian Inst. of Tech. Bombay
Co-Chair: Silva, Daniel F.	Auburn Univ		
16:00-16:20	MoC08.1	16:40-17:00	MoC09.3
<i>Natural Gradients for State and Output Feedback Control</i> , pp. 1984-1989.		<i>A Detection-Estimation Approach with Refinement to Filtering for Gaussian Systems with Intermittent Observations</i> , pp. 2035-2040.	
Lamperski, Andrew	Univ. of Minnesota	Fasano, Antonio	Univ. Campus Bio-Medico Di Roma
16:20-16:40	MoC08.2	Longhi, Sauro	Univ. Pol. Delle Marche
<i>Stochastic Optimal Control Using Semidefinite Programming for Moment Dynamics</i> , pp. 1990-1995.		Monteriù, Andrea	Univ. Pol. Delle Marche
Lamperski, Andrew	Univ. of Minnesota	Villani, Valeria	Univ. Degli Studi Di Modena E Reggio Emilia
Ghusinga, Khem Raj	Univ. of Delaware		
Singh, Abhyudai	Univ. of Delaware		
16:40-17:00	MoC08.3	17:00-17:20	MoC09.4
<i>Dynamic Control of Complex Authentication Systems</i> , pp. 1996-2003.		<i>Relations between Full Information and Kalman-Based Estimation</i> , pp. 2041-2046.	
Silva, Daniel F.	Auburn Univ	Ge, Ming	IMPERIAL Coll. LONDON
Ayhan, Hayriye	Georgia Inst. of Tech	Kerrigan, Eric C.	Imperial Coll. London
Zhang, Bo	IBM Res		
17:00-17:20	MoC08.4	17:20-17:40	MoC09.5
<i>Information Transfer in Stochastic Optimal Control with Randomized Strategies and Directed Information Criterion</i> , pp. 2004-2009.		<i>Riccati Observers for Position and Velocity Bias Estimation from Direction Measurements</i> , pp. 2047-2053.	
Charalambous, Charalambos D.	Univ. of Cyprus	Samson, Claude	INRIA Sophia-Antipolis
Kourtellaris, Christos K.	Univ. of Cyprus	Hamel, Tarek	Univ. De Nice Sophia Antipolis
Tzortzis, Ioannis	Univ. of Cyprus		
17:20-17:40	MoC08.5	17:40-18:00	MoC09.6
<i>Infinite Horizon Discounted Dynamic Programming Subject to Total Variation Ambiguity on Conditional Distribution (I)</i> , pp. 2010-2015.		<i>Boundary Parameter and State Estimation in 2 X 2 Linear Hyperbolic PDEs Using Adaptive Backstepping</i> , pp. 2054-2060.	
Tzortzis, Ioannis	Univ. of Cyprus	Anfinsen, Henrik	Norwegian Univ. of Science and Tech
		Aamo, Ole Morten	NTNU
<b>MoC10</b>	Starvine 10		
<b>Identification III (Regular Session)</b>			
Chair: Martin, Cesar A.	Arizona State Univ. (ASU), Escuela Superior Pol. Del Litoral (ESPOL)		
Co-Chair: Maruta, Ichiro	Kyoto Univ		
16:00-16:20	MoC10.1	<i>Kernel-Based System Identification from Noisy and Incomplete Input-</i>	

<i>Output Data</i> , pp. 2061-2066.	Rugthum, Thummaros Tao, Gang	Univ. of Virginia Univ. of Virginia
Risuleo, Riccardo Sven Bottegal, Giulio Hjalmarsson, Håkan	KTH Royal Inst. of Tech Ku Leuven KTH Royal Inst. of Tech	
16:20-16:40	MoC10.2	MoC11.3
<i>Fixed-Time Parameter Estimation in Polynomial Systems through Modulating Functions</i> , pp. 2067-2072.		<i>Adaptive Control for Robot Manipulator with Guaranteed Transient Performance</i> , pp. 2109-2114.
Noack, Matti Rueda-Escobedo, Juan G.	TU Ilmenau Univ. Nacional Autónoma De México	Seo, Dongeun Embry-Riddle Aeronautical Univ
Reger, Johann Moreno, Jaime A.	TU Ilmenau Univ. Nacional Autonoma De Mexico-UNAM	Elhaggar, Mahmoud saad, Mohamed Shawky Abdel Fattah, Hossam A. Elshafei, Abdel Latif
16:40-17:00	MoC10.3	Cairo Univ Cairo Univ. Faculty of Engineering Cairo Univ Faculty of Engineering
<i>A New Relay Feedback Scheme for Identification of Non-Minimum Phase Processes with Time Delay</i> , pp. 2073-2078.		MoC11.4
GHORAI, PRASENJIT Pandey, Saurabh Majhi, Somanath	National Inst. of Tech. Agartala, Tripura Indian Inst. of Tech. Guwahati, Assam Indian Inst. of Tech. Guwahati	Discrete Time L1 Adaptive Control for Systems with Time-Varying Parameters and Disturbances, pp. 2115-2120.
17:00-17:20	MoC10.4	Elhaggar, Mahmoud saad, Mohamed Shawky Abdel Fattah, Hossam A. Elshafei, Abdel Latif
<i>System Identification under Lebesgue Sampling and Its Asymptotic Property</i> , pp. 2079-2084.		Faculty of Engineering
Kawaguchi, Takahiro Hikono, Sosaburo Maruta, Ichiro Adachi, Shuichi	Keio Univ Keio Univ Kyoto Univ Keio Univ	MoC11.5
17:20-17:40	MoC10.5	<i>Adaptive Output Feedback for Plants with Direct Feedthrough</i> , pp. 2121-2127.
<i>Particle-Based Gaussian Process Optimization for Input Design in Nonlinear Dynamical Models</i> , pp. 2085-2090.		Menner, Marcel Annaswamy, Anuradha M. Zollitsch, Alexander Wolfgang
Valenzuela, Patricio E. Dahlin, Johan Rojas, Cristian R. Schön, Thomas (Bo)	KTH Royal Inst. of Tech Linköping Univ KTH Royal Inst. of Tech Uppsala Univ	Massachusetts Inst. of Tech Massachusetts Inst. of Tech Tech. Univ. München
17:40-18:00	MoC10.6	MoC11.6
<i>An Enhanced Identification Test Monitoring Procedure for MIMO Systems Relying on Uncertainty Estimates</i> , pp. 2091-2096.		<i>Boundary Observer Design for Hyperbolic PDE in Rotary Drilling Systems</i> , pp. 2128-2133.
Martin, Cesar A. Rivera, Daniel E. Hekler, Eric	Arizona State Univ. (ASU), Escuela Superior Pol. Del Arizona State Univ Arizona State Univ	TOUMI, Samir Beji, Lotfi Mlayeh, Rhouma Abichou, Azgal
		Pol. School of Tunisia Univ. of Evry Pol. School of Tunisia Ec. Pol. De Tunis
<b>MoC12</b>		Starvine 12
	<b>Fault Detection and Tolerance II (Regular Session)</b>	
	Chair: Shames, Iman Co-Chair: Kwan, Chi-Man	The Univ. of Melbroune Applied Res. LLC
16:00-16:20		MoC12.1
	<i>Detection of Biasing Attacks on Distributed Estimation Networks</i> , pp. 2134-2139.	
	Deghat, Mohammad Ugrinovskii, Valery Shames, Iman Langbort, Cedric	CSIRO Univ. of New South Wales The Univ. of Melbroune Univ. of Illinois, Urbana-Champaign
16:20-16:40		MoC12.2
	<i>A Novel Approach to Sensor and Actuator Integrity Monitoring</i> , pp. 2140-2145.	
	Kwan, Chi-Man	Applied Res. LLC
16:40-17:00		MoC12.3
	<i>Optimal Active Fault Diagnosis by Temporal-Difference Learning</i> , pp. 2146-2151.	
	Skach, Jan Puncochar, Ivo Lewis, Frank L.	Univ. of West Bohemia Univ. of West Bohemia Univ. of Texas at Arlington
17:00-17:20		MoC12.4
	<i>A Brief Survey of Different Statistics for Detecting Multiplicative Faults in Multivariate Statistical Process Monitoring</i> , pp. 2152-2157.	
	Zhang, Kai Shardt, Yuri Chen, Zhiwen Ding, Steven X.	Univ. of Duisburg-Essen Univ. of Duisburg-Essen Univ. of Duisburg-Essen Univ. of Duisburg-Essen
16:20-16:40	MoC11.2	
<i>An Adaptive Actuator Failure Compensation Scheme for a Parallel Manipulator with Parameter Uncertainties</i> , pp. 2103-2108.		

Peng, Kaixiang	Univ. of Science and Tech. Beijing, Beijing, P.R. Chin		Ironwood 1
17:20-17:40	MoC12.5		
A Fault-Tolerant Sensor Reconciliation Scheme Based on LPV Unknown Input Observers, pp. 2158-2163.			
Behzad, Hamid	Shahrood Univ. of Tech	Chair: Johansson, Karl H.	Royal Inst. of Tech
Casavola, Alessandro	Univ. Della Calabria	Co-Chair: Nowzari, Cameron	Univ. of Pennsylvania
Tedesco, Francesco	Univ. Della Calabria	Organizer: Heemels, W.P.M.H.	Eindhoven Univ. of Tech
Sadrnia, M.A.	Shahrood Univ. of Tech	Organizer: Hirche, Sandra	Tech. Univ. München
17:40-18:00	MoC12.6	Organizer: Johansson, Karl H.	Royal Inst. of Tech
A Decentralized Fault-Tolerant Control Scheme Based on Active Fault Diagnosis, pp. 2164-2169.			
Raimondo, Davide Martino	Univ. Degli Studi Di Pavia	16:00-16:20	MoC14.1
Boem, Francesca	Imperial Coll. London	Multi-Agent Trajectory Tracking with Self-Triggered Cloud Access (I), pp. 2207-2214.	
Gallo, Alexander	Imperial Coll. London	Adaldo, Antonio	Royal Inst. of Tech. KTH
Parisini, Thomas	Imperial Coll. & Univ. of Trieste	Liuzza, Davide	KTH Royal Inst. of Tech
<b>MoC13</b>	Starvine 13	Dimarogonas, Dimos V.	Royal Inst. of Tech
<b>Lyapunov Methods II (Regular Session)</b>		Johansson, Karl H.	Royal Inst. of Tech
Chair: Coogan, Samuel	Univ. of California, Los Angeles	16:20-16:40	MoC14.2
Co-Chair: Lazar, Mircea	Eindhoven Univ. of Tech	Coordination of Multi-Agent Systems Via Asynchronous Cloud Communication (I), pp. 2215-2220.	
16:00-16:20	MoC13.1	Bowman, Sean L.	Univ. of Pennsylvania
A Sampling Approach to Constructing Lyapunov Functions for Nonlinear Continuous-Time Systems, pp. 2170-2175.		Nowzari, Cameron	Univ. of Pennsylvania
Bobiti, Ruxandra	Tech. Univ. Eindhoven	Pappas, George J.	Univ. of Pennsylvania
Lazar, Mircea	Eindhoven Univ. of Tech	16:40-17:00	MoC14.3
16:20-16:40	MoC13.2	Meng, Xiangyu	Nanyang Tech. Univ
On Estimating the Robust Domain of Attraction for Uncertain Non-Polynomial Systems: An LMI Approach, pp. 2176-2183.		Xie, Lihua	Nanyang Tech. Univ
HAN, Dongkun	Tech. Univ. of Munich	Soh, Yeng Chai	Nanyang Tech. Univ
Althoff, Matthias	Tech. Univ. München	17:00-17:20	MoC14.4
16:40-17:00	MoC13.3	Self-Triggered Control for Multi-Agent Systems with Quantized Communication or Sensing (I), pp. 2227-2232.	
Separability of Lyapunov Functions for Contractive Monotone Systems, pp. 2184-2189.		Yi, Xinlei	KTH Royal Inst. of Tech
Coogan, Samuel	Univ. of California, Los Angeles	Wei, Jieqiang	KTH
17:00-17:20	MoC13.4	Johansson, Karl H.	Royal Inst. of Tech
Functional Electrical Stimulation Induced Cycling Using Repetitive Learning Control, pp. 2190-2195.		17:20-17:40	MoC14.5
Duenas, Victor	Univ. of Florida	Liu, Qingchen	Australian National Univ
Cousin, Christian	Univ. of Florida	Qin, Jiahua	Univ. of Science and Tech. of China
Parikh, Anup	Univ. of Florida	Yu, Changbin (Brad)	The Australian National Univ
Dixon, Warren E.	Univ. of Florida	17:40-18:00	MoC14.6
17:20-17:40	MoC13.5	Event-Based Leader-Follower Consensus for Multiple Euler-Lagrange Systems with Parametric Uncertainties, pp. 2240-2246.	
Improved Slack-Matrix-Based Summation Inequality and Applications to Discrete-Time Systems with Time-Varying Delays, pp. 2196-2200.		Liu, Qingchen	Australian National Univ
Lee, Seok Young	POSTECH	Ye, Mengbin (Ben)	Australian National Univ
Lee, Won Il	POSTECH	Qin, Jiahua	Univ. of Science and Tech. of China
Park, PooGyeon	Pohang Univ. of Sci. & Tech	Yu, Changbin (Brad)	The Australian National Univ
17:40-18:00	MoC13.6		
A Unified Lyapunov Function for Finite Time Stabilization of Continuous and Variable Structure Systems with Resets, pp. 2201-2206.			
Oza, Harshal B.	Ahmedabad Univ	<b>MoC15</b>	Ironwood 2
Orlov, Yury	CICESE	Distributed Parameter Systems I (Invited Session)	
Spurgeon, Sarah K.	Univ. Coll. London	Chair: Demetriou, Michael A.	Worcester Pol. Inst
		Co-Chair: Fahroo, Fariba	DARPA
		Organizer: Demetriou, Michael A.	Worcester Pol. Inst
		Organizer: Fahroo, Fariba	DARPA

Organizer: Le Gorrec, Yann	Ensimm, Femto-St / As2m	
16:00-16:20		MoC15.1
<i>Input-To State Stability with Respect to Boundary Disturbances for the 1-D Heat Equation (I)</i> , pp. 2247-2252.		
Karafyllis, Iasson	National Tech. Univ. of Athens	
Krstic, Miroslav	Univ. of California, San Diego	
16:20-16:40		MoC15.2
<i>Spreading Control of Sub-Diffusion Process (I)</i> , pp. 2253-2258.		
Ge, Fudong	Donghua Univ	
Chen, YangQuan	Univ. of California, Merced	
Kou, Chunhai	Donghua Univ	
16:40-17:00		MoC15.3
<i>Sensor Location in a Controlled Thermal Fluid (I)</i> , pp. 2259-2264.		
HU, WEIWEI	Univ. of Minnesota	
Morris, Kirsten	Univ. of Waterloo	
Zhang, Yangwen	Missouri Univ. of Science and Tech	
17:00-17:20		MoC15.4
<i>On Input-To-State-Stability and Integral Input-To-State-Stability for Parabolic Boundary Control Systems (I)</i> , pp. 2265-2269.		
Jacob, Birgit	Univ. of Wuppertal	
Nabiullin, Robert	Univ. of Wuppertal	
Partington, Jonathan R.	Univ. of Leeds	
Schwenninger, Felix	Univ. of Wuppertal	
17:20-17:40		MoC15.5
<i>Plume Estimation Using Static and Dynamic Formations of Unmanned Aerial Vehicles (I)</i> , pp. 2270-2275.		
Egorova, Tatiana	Worcester Pol. Inst	
Demetriou, Michael A.	Worcester Pol. Inst	
Gatsonis, Nikolaos	Worcester Pol. Inst	
17:40-18:00		MoC15.6
<i>Error Estimates for Multi-Wavelet Approximations of a Class of History Dependent Operators</i> , pp. 2276-2281.		
Dadashi, Shirin	Virginia Tech	
Bobade, Parag	Virginia Tech	
Kurdila, Andrew J.	Virginia Tech	
<b>MoC16</b>		Ironwood 3
<b>Delay Systems III (Regular Session)</b>		
Chair: Petit, Nicolas	MINES ParisTech	
Co-Chair: Niculescu, Silviu-Iulian	CNRS-Supelec	
16:00-16:20		MoC16.1
<i>Optimization of Dynamical Systems with Time-Varying or Input-Varying Delays</i> , pp. 2282-2289.		
Clerget, Charles-Henri	MINES ParisTech	
Grimaldi, Jean-Philippe	Total RC	
Chèbre, Meriam	Total SA	
Petit, Nicolas	MINES ParisTech	
16:20-16:40		MoC16.2
<i>Dynamic Predictor for Linear Time-Delay Systems with Disturbances</i> , pp. 2290-2295.		
Caballero-Barragán, Humberto	CINVESTAV Unidad Guadalajara	
Osuna-Ibarra, Linda Patricia	CINVESTAV Unidad Guadalajara	
Loukianov, Alexander G.	CINVESTAV IPN Unidad GDL	
16:40-17:00		MoC16.3
<i>A Semidiscrete Approximation Scheme for Linear Neutral Delay-Differential Equations Which Preserves Adjoint Semigroup Convergence (I)</i> , pp. 2296-2301.		
Fabiano, Richard H.	Univ. of North Carolina at Greensboro	
Payne, Catherine	Univ. of North Carolina at Greensboro	
17:00-17:20		MoC16.4
<i>Dynamic Observation-Prediction for LTI Systems with a Time-Varying Delay in the Input</i> , pp. 2302-2307.		
Lechappe, Vincent	Univ. of the South Pacific	
Moulay, Emmanuel	Univ. De Poitiers	
Plestán, Franck	Ec. Centrale De Nantes-IRCCyN	
17:20-17:40		MoC16.5
<i>Unknown Input Estimation Via Observers for Nonlinear Systems with Measurement Delays (I)</i> , pp. 2308-2313.		
Chakrabarty, Ankush	Harvard Univ	
Buzzard, Gregory T.	Purdue Univ	
Fridman, Emilia	Tel-Aviv Univ	
Zak, Stanislaw H.	Purdue Univ	
17:40-18:00		MoC16.6
<i>Orthogonal Functions Based Integral Inequalities and Their Applications to Time Delay Systems</i> , pp. 2314-2319.		
Feng, Qian	Univ. of Auckland	
Nguang, Sing Kiong	The Univ. of Auckland	
<b>MoC17</b>		Ironwood 6
<b>Predictive Control for Linear Systems II (Regular Session)</b>		
Chair: Keviczky, Tamas	Delft Univ. of Tech	
Co-Chair: Ebenbauer, Christian	Univ. of Stuttgart	
16:00-16:20		MoC17.1
<i>On Degeneracy in Exploration of Combinatorial Tree in Multi-Parametric Quadratic Programming</i> , pp. 2320-2326.		
Ahmadi-Moshkenani, Parisa	Norwegian Univ. of Science and Tech	
Johansen, Tor Arne	Norwegian Univ. of Science & Tech	
Olaru, Sorin	CentraleSupélec	
16:20-16:40		MoC17.2
<i>Robustness Margin for Piecewise Affine Explicit Control Law</i> , pp. 2327-2332.		
Koduri, Rajesh	Centralesupelec	
Rodriguez-Ayerbe, Pedro	Supelec	
Olaru, Sorin	CentraleSupélec	
16:40-17:00		MoC17.3
<i>A Non-Conservative Robust Output Feedback MPC for Constrained Linear Systems</i> , pp. 2333-2338.		
Subramanian, Sankaranarayanan	TU Dortmund	
Lucia, Sergio	OvG Univ. of Magdeburg	
Engell, Sebastian	TU Dortmund	
17:00-17:20		MoC17.4
<i>Constrained LQR Using Online Decomposition Techniques</i> , pp. 2339-2344.		
Ferranti, Laura	Delft Univ. of Tech	

Stathopoulos, Georgios Jones, Colin N. Keviczky, Tamas	Ec. Pol. Federale De Lausanne EPFL Delft Univ. of Tech	
17:20-17:40	MoC17.5	
<i>Asynchronous Splitting Design for Model Predictive Control</i> , pp. 2345-2350.		
Ferranti, Laura Pu, Ye Jones, Colin N. Keviczky, Tamas	Delft Univ. of Tech École Pol. Fédérale De Lausanne EPFL Delft Univ. of Tech	
17:40-18:00	MoC17.6	
<i>Parallel Model Predictive Control for Input Constrained Linear Systems</i> , pp. 2351-2357.		
Hara, Naoyuki Konishi, Keiji	Osaka Prefecture Univ Osaka Prefecture Univ	
<b>MoC18</b>	Ironwood 7	
<b>Robust Control II (Regular Session)</b>		
Chair: Possieri, Corrado Co-Chair: Hladowksi, Lukasz	Univ. Di Roma Tor Vergata Univ. of Zielona Gora	
16:00-16:20	MoC18.1	
<i>Multi-Objective Control for Discrete-Time Systems Over Lossy Actuating Channel</i> , pp. 2358-2363.		
Feng, Yu Chen, Xiang Gu, Guoxiang	Zhejiang Univ. of Tech Univ. of Windsor Louisiana State Univ	
16:20-16:40	MoC18.2	
<i>Robust Constrained Model Predictive Control with Persistent Model Adaptation</i> , pp. 2364-2369.		
Brüggemann, Sven Possieri, Corrado Poveda, Jorge I.  Teel, Andrew R.	RWTH Aachen Univ Univ. Di Roma Tor Vergata Univ. of California at Santa Barbara  Univ. of California at Santa Barbara	
16:40-17:00	MoC18.3	
<i>Robust Iterative Learning Control Laws with Full Dynamics</i> , pp. 2370-2375.		
Hladowksi, Lukasz Paszke, Wojciech Galkowski, Krzysztof Rogers, Eric	Univ. of Zielona Gora Univ. of Zielona Gora Univ. of Zielona Gora Univ. of Southampton	
17:00-17:20	MoC18.4	
<i>Networked Robust Stabilization with Simultaneous Uncertainties in Plant, Controller and Communication Channels</i> , pp. 2376-2381.		
Zhao, Di Qiu, Li	Hong Kong Univ. of Sci. and Tech Hong Kong Univ. of Sci. & Tech	
17:20-17:40	MoC18.5	
<i>LQ vs. L-Infinity in Controller Design for Systems with Delay and Quantization</i> , pp. 2382-2389.		
Nakahira, Yorie	California Inst. of Tech	
17:40-18:00	MoC18.6	
<i>Robust Controller Synthesis with Unstable Weights</i> , pp. 2390-2395.		
Veenman, Joost Lahr, Martin Scherer, Carsten W.	SENER Univ. Stuttgart Univ. of Stuttgart	
<b>MoC19</b>	Ironwood 8	
<b>Power Systems III (Regular Session)</b>		
Chair: Mathieu, Johanna L. Co-Chair: Louca, Raphael	Univ. of Michigan Cornell Univ	
16:00-16:20	MoC19.1	
<i>An Incremental Local Algorithm for Better Voltage Control in Distribution Networks</i> , pp. 2396-2402.		
Zhou, Xinyang Chen, Lijun	Univ. of Colorado, Boulder Univ. of Colorado at Boulder	
16:20-16:40	MoC19.2	
<i>Power System State Estimation with Line Measurements</i> , pp. 2403-2410.		
Zhang, Yu Madani, Ramtin Lavaei, Javad	UC Berkeley The Univ. of Texas at Arlington UC Berkeley	
16:40-17:00	MoC19.3	
<i>Error Bounds on the DC Power Flow Approximation: A Convex Relaxation Approach</i> , pp. 2411-2418.		
Dvijotham, Krishnamurthy Molzahn, Daniel	California Inst. of Tech Argonne National Lab	
17:00-17:20	MoC19.4	
<i>Optimization-Based Residential Load Scheduling to Improve Reliability in the Distribution Grid</i> , pp. 2419-2424.		
HABIB, Abdulelah H. Ratnam, Elizabeth Vahid, Disfani Kleissl, Jan de Callafon, Raymond A.	UC San Diego UC San Diego UC San Diego Univ. of California, San Diego Univ. of California, San Diego	
17:20-17:40	MoC19.5	
<i>Distributionally Robust Risk-Constrained Optimal Power Flow Using Moment and Unimodality Information</i> , pp. 2425-2430.		
Li, Bowen Jiang, Ruiwei Mathieu, Johanna L.	Univ. of Michigan Univ. of Michigan Univ. of Michigan	
17:40-18:00	MoC19.6	
<i>Stochastic AC Optimal Power Flow with Affine Recourse</i> , pp. 2431-2436.		
Louca, Raphael Bitar, Eilyan	Cornell Univ Cornell Univ	
<b>MoC20</b>	Coppearleaf 1	
<b>Automotive Control II (Regular Session)</b>		
Chair: Di Cairano, Stefano Co-Chair: Chung, Chung Choo	Mitsubishi Electric Res. Labs Hanyang Univ	
16:00-16:20	MoC20.1	
<i>Vehicle Speed Control by a Robotic Driver Considering Time Delay and Parametric Variations</i> , pp. 2437-2442.		
Mizutani, Naoto MATSUMI, Hirokazu Yano, Kenichi Takahashi, Toshimichi	Mie Univ Mie Univ Mie Univ MEIDENSHA Corp	
16:20-16:40	MoC20.2	
<i>Tire-Stiffness Estimation by Marginalized Adaptive Particle Filter</i> , pp. 2443-2448.		

Berntorp, Karl	Mitsubishi Electric Res. Labs		
Di Cairano, Stefano	Mitsubishi Electric Res. Labs		
16:40-17:00	MoC20.3		MoC21.4
<i>Vehicle Lateral Motion Estimation with Its Dynamic and Kinematic Models Based Interacting Multiple Model Filter</i> , pp. 2449-2454.			
Kang, Chang Mook	Hanyang Univ	Giordano, Giulia	Lund Univ
Lee, Seung Hi	Hanyang Univ	Rantzer, Anders	Lund Univ
Chung, Chung Choo	Hanyang Univ	Jonsson, Vanessa	California Inst. of Tech
17:00-17:20	MoC20.4	17:00-17:20	MoC21.5
<i>Path Following Control for a Reversing General 2-Trailer System</i> , pp. 2455-2461.			
Ljungqvist, Oskar	Linköping Univ	Sandhu, Romeil	Georgia Inst. of Tech
Axehill, Daniel	Linköping Univ	Tannenbaum, Sarah	Columbia Univ
Helmersson, Anders	Linköpings Univ	Georgiou, Tryphon T.	Univ. of California, Irvine
17:20-17:40	MoC20.5	Tannenbaum, Allen	Stony Brook Univ
<i>A Control Strategy for Reducing Traffic Waves in Delayed Vehicular Networks</i> , pp. 2462-2467.		17:40-18:00	MoC21.6
Fiengo, Giovanni	Univ. Degli Studi Del Sannio	Alamir, Mazen	CNRS / Univ. of Grenoble
Petrillo, Alberto	Univ. of Naples Federico II	Fiacchini, Mirko	GIPSA-Lab
Salvi, Alessandro	Media Motive Srl - NetcomGroup Spa		
Santini, Stefania	Univ. Di Napoli Federico II		
Tufo, Manuela	Univ. Del Sannio		
17:40-18:00	MoC20.6		
<i>Design of a Lane Departure Driver-Assist System under Safety Specifications</i> , pp. 2468-2474.			
Hoehener, Daniel	Massachusetts Inst. of Tech		
Huang, Geng	Univ. of Illinois Urbana Champaign		
Del Vecchio, Domitilla	Massachusetts Inst. of Tech		
<b>MoC21</b>	Coppearleaf 2		
<b>System Identification and Control in Cancer</b> (Invited Session)			
Chair: Jonsson, Vanessa	California Inst. of Tech	Chair: Dong, Daoyi	Univ. of New South Wales
Co-Chair: Giordano, Giulia	Lund Univ	Co-Chair: Yamamoto, Naoki	Keio Univ
Organizer: Jonsson, Vanessa	California Inst. of Tech	Organizer: Dong, Daoyi	Univ. of New South Wales
Organizer: Tomlin, Claire J.	UC Berkeley	Organizer: Li, Jr-Shin	Washington Univ. in St. Louis
16:00-16:20	MoC21.1	Organizer: Yamamoto, Naoki	Keio Univ
<i>Some Remarks on Immune Control of Infections and Tumors</i> (I), pp. 2475-2480.			
Sontag, Eduardo D.	Rutgers Univ	16:00-16:20	MoC22.1
16:20-16:40	MoC21.2		
<i>A Model of Phenotypic State Dynamics Initiates a Promising Approach to Control Heterogeneous Malignant Cell Populations</i> (I), pp. 2481-2487.			
Chapman, Margaret Pfeiffer	UC Berkeley	Nurdin, Hendra I	UNSW Australia
Risom, Tyler	Oregon Health and Science Univ	James, Matthew R.	Australian National Univ
Aswani, Anil	UC Berkeley	Yamamoto, Naoki	Keio Univ
Dobbe, Roel	Univ. of California at Berkeley	16:20-16:40	MoC22.2
Sears, Rosalie	Oregon Health and Science Univ		
Tomlin, Claire J.	UC Berkeley		
16:40-17:00	MoC21.3		
<i>Modelling Drug Response and Resistance in Cancer: Opportunities and Challenges</i> (I), pp. 2488-2493.			
Challapalli, Niharika	1992	Ma, Shan	Univ. of New South Wales at Australian Defence Force Acad
Ahsen, Mehmet Eren	IBM Res	Woolley, Matthew James	Univ. of New South Wales
Vidyasagar, Mathukumalli	The Univ. of Texas at Dallas	Petersen, Ian R.	Univ. of New South Wales at the Australian Defence Force Acad
17:00-17:20	MoC22.3	Yamamoto, Naoki	Keio Univ
<i>An Iterative Algorithm for Hamiltonian Identification of Quantum Systems</i> (I), pp. 2523-2528.			
Wang, Yuanlong	Univ. of New South Wales, Canberra	16:40-17:00	MoC22.3
Qi, Bo	CAS		
Dong, Daoyi	Univ. of New South Wales		
Petersen, Ian R.	Univ. of New South Wales at the Australian Defence Force Acad		
17:00-17:20	MoC22.4		
<i>Control of Ensemble Systems on Special Orthogonal Groups</i> (I), pp. 2529-2534.			
Zhang, Wei	Washington Univ. in St. Louis		
Li, Jr-Shin	Washington Univ. in St. Louis		

---

17:20-17:40 MoC22.5

*Quantum State Transfer for Multi-Input Linear Quantum Systems (I),*  
pp. 2535-2538.

Yamamoto, Naoki	Keio Univ
Nurdin, Hendra I	UNSW Australia
James, Matthew R.	Australian National Univ

---

17:40-18:00 MoC22.6

*Quantum Back-Action Evasion Via Coherent Feedback Control: A Geometric Control Approach,* pp. 2539-2542.

Yokotera, Yu	Keio Univ
Yamamoto, Naoki	Keio Univ

---

**MoC23** Coppearleaf 4

**Multivehicle Systems II (Regular Session)**

Chair: Milutinovic, Dejan	Univ. of California, Santa Cruz
Co-Chair: Reveliotis, Spyros	Georgia Inst. of Tech

---

16:00-16:20 MoC23.1

*Scalable Value Approximation for Multiple Target Tail-Chase with Collision Avoidance,* pp. 2543-2548.

Hashemi, Araz	Wayne State Univ
Casbeer, David W.	Air Force Res. Lab
Milutinovic, Dejan	Univ. of California, Santa Cruz

---

16:20-16:40 MoC23.2

*Hybrid Centralized/Distributed Autonomous Intersection Control: Using a Job Scheduler As a Planner and Inheriting Its Efficiency Guarantees,* pp. 2549-2554.

GREGOIRE, Jean	Mines ParisTech
Frazzoli, Emilio	Massachusetts Inst. of Tech

---

16:40-17:00 MoC23.3

*3D Collision Avoidance Algorithm for Unmanned Aerial Vehicles with Limited Field of View Constraints,* pp. 2555-2560.

Roelofsen, Steven	École Pol. Fédérale De Lausanne
Martinoli, Alcherio	Ec. Pol. Federale De Lausanne
Gillet, Denis	Ec. Pol. Fédérale De Lausanne (EPFL)

---

17:00-17:20 MoC23.4

*Shapes of Cyclic Pursuit and Their Evolution,* pp. 2561-2566.

Baryshnikov, Yuliy	UIUC
Chen, Cheng	Univ. of Illinois at Urbana-Champaign

---

17:20-17:40 MoC23.5

*Primal Decomposition of the Optimal Coordination of Vehicles at Traffic Intersections,* pp. 2567-2573.

Hult, Robert	Chalmers Univ. of Tech
Zanon, Mario	Chalmers Univ
Gros, Sebastien	Chalmers Univ. of Tech
Falcone, Paolo	Chalmers Univ. of Tech

---

17:40-18:00 MoC23.6

*On the Optimal Location of Distribution Centers for a One-Dimensional Transportation System,* pp. 2574-2580.

Terelius, Håkan	Royal Inst. of Tech
Johansson, Karl H.	Royal Inst. of Tech

**Technical Program for Tuesday December 13, 2016**

<b>TuSP1</b>	Juniper 4	Manfredi, Sabato Angeli, David	Univ. of Naples Federico II Imperial Coll
<b>Distributed Large-Scale Optimization</b> (Semiplenary Session)			
Chair: Bullo, Francesco	Univ. California at Santa Barbara	Zhang, Sara Ying	Univ. of Bristol
Co-Chair: Pappas, George J.	Univ. of Pennsylvania	Jiang, Jason Zheng	Univ. of Bristol
08:30-09:30	TuSP1.1	Smith, Malcolm C.	Univ. of Cambridge
<i>Distributed Large-Scale Optimization*</i> .			
Nedich, Angelia	Arizona State Univ.		
<b>TuSP2</b>	Ironwood 5		
<b>Smart Cities As Cyber-Social-Physical Systems</b> (Semiplenary Session)			
Chair: Giua, Alessandro	Aix-Marseille Univ. France / Univ. of Cagliari, Italy	Chair: Panagou, Dimitra	Univ. of Michigan, Ann Arbor
Co-Chair: Jovanovic, Mihailo	Univ. of Minnesota	Co-Chair: Tan, Xiaobo	Michigan State Univ
08:30-09:30	TuSP2.1		
<i>Smart Cities As Cyber-Social-Physical Systems*</i> .			
Cassandras, Christos G.	Boston Univ.	Fullmer, Daniel	Yale Univ
<b>TuA01</b>	Starvine 1	Liu, Ji	Univ. of Illinois at Urbana-Champaign
<b>Network Analysis and Control IV</b> (Regular Session)			
Chair: Monshizadeh, Nima	Univ. of Groningen	Morse, A. Stephen	Yale Univ
Co-Chair: Clark, Andrew	Worcester Pol. Inst		
10:00-10:20	TuA01.1		
<i>Singular-Perturbations-Based Analysis of Synchronization in Heterogeneous Networks: A Case-Study</i> , pp. 2581-2586.			
Maghenem, Mohamed	L2S-Supelec	Liu, Zhongchang	Sun Yat-Sen Univ
Panteley, Elena	Lab. Des Signaux Et Systemes, CNRS - SUPELEC	Wong, Wing Shing	Chinese Univ. of Hong Kong
Loria, Antonio	CNRS	Cheng, Hui	Sun Yat-Sen Univ
10:20-10:40	TuA01.2		
<i>Distributed Adaptive Patching Strategies against Malware Propagation: A Passivity Approach</i> , pp. 2587-2594.			
Lee, Phillip	Univ. of Washington	Wang, Chu	Nokia Bell Labs
Clark, Andrew	Worcester Pol. Inst	Li, Qianxiao	Princeton Univ
Alomair, Basel	King Abdulaziz City for Science and Tech	E, Weinan	Princeton Univ
Bushnell, Linda	Univ. of Washington	Chazelle, Bernard	Princeton
Poovendran, Radha	Univ. of Washington, Seattle		
10:40-11:00	TuA01.3		
<i>A Lyapunov Approach to Control of Microgrids with a Network-Preserved Differential-Algebraic Model (I)</i> , pp. 2595-2600.			
De Persis, Claudio	Univ. of Groningen	Mulla, Ameer Kalandar	Indian Inst. of Tech. Bombay
Monshizadeh, Nima	Univ. of Groningen	Patil, Deepak U.	TU Kaiserslautern
Schiffer, Johannes	Univ. of Leeds	Chakraborty, Debraj	Indian Inst. of Tech. Bombay
Dörfler, Florian	Swiss Federal Inst. of Tech. (ETH) Zurich		
11:00-11:20	TuA01.4		
<i>Stability of Networked Systems with Switching Topologies</i> , pp. 2601-2608.			
Gopalakrishnan, Karthik	Massachusetts Inst. of Tech	Bentz, William	Univ. of Michigan
Balakrishnan, Hamsa	Massachusetts Inst. of Tech	Panagou, Dimitra	Univ. of Michigan, Ann Arbor
Jordan, Richard	Sonde Health, Inc		
11:20-11:40	TuA01.5		
<b>TuA02</b>			
<b>Agents-Based Systems IV</b> (Regular Session)			
Chair: Panagou, Dimitra	Univ. of Michigan, Ann Arbor		
Co-Chair: Tan, Xiaobo	Michigan State Univ		
10:00-10:20	TuA02.1		
<i>An Asynchronous Distributed Algorithm for Computing a Common Fixed Point of a Family of Paracontractions</i> , pp. 2620-2625.			
Fullmer, Daniel			
Liu, Ji			
Morse, A. Stephen			
10:20-10:40	TuA02.2		
<i>Cluster Synchronization of Inter-Cluster Nonidentical Linear Systems under Directed Nonnegative Graphs</i> , pp. 2626-2631.			
Liu, Zhongchang			
Wong, Wing Shing			
Cheng, Hui			
10:40-11:00	TuA02.3		
<i>Noisy Hegselmann-Krause Systems: Phase Transition and the 2R-Conjecture</i> , pp. 2632-2637.			
Wang, Chu			
Li, Qianxiao			
E, Weinan			
Chazelle, Bernard			
11:00-11:20	TuA02.4		
<i>An O(<math>N^2</math>) Algorithm for Computation of the Minimum Time Consensus</i> , pp. 2638-2643.			
Mulla, Ameer Kalandar			
Patil, Deepak U.			
Chakraborty, Debraj			
11:20-11:40	TuA02.5		
<i>An Energy-Aware Redistribution Method for Multi-Agent Dynamic Coverage Networks</i> , pp. 2644-2651.			
Bentz, William			
Panagou, Dimitra			
11:40-12:00	TuA02.6		
<i>Distributed Time-Difference-Of-Arrival (TDOA)-Based Localization of a Moving Target</i> , pp. 2652-2658.			
Ennasr, Osama N.			
Guoliang, Xing			
Tan, Xiaobo			
<b>TuA03</b>	Starvine 3		
<b>Cooperative Control IV</b> (Regular Session)			
Chair: Dibaji, Seyed Mehran	Massachusetts Inst. of Tech		

Co-Chair: Jaleel, Hassan	King Abdullah Univ. of Science & Tech	TuA04.2
10:00-10:20	TuA03.1	
<i>Multi-Objective Compositions for Collision-Free Connectivity Maintenance in Teams of Mobile Robots</i> , pp. 2659-2664.		
Wang, Li	Georgia Inst. of Tech	
Egerstedt, Magnus	Georgia Inst. of Tech	
Ames, Aaron D.	Georgia Inst. of Tech	
10:20-10:40	TuA03.2	
<i>Decentralized Energy Aware Co-Optimization of Mobility and Communication in Multiagent Systems</i> , pp. 2665-2670.		
Jaleel, Hassan	King Abdullah Univ. of Science & Tech	
Shamma, Jeff S.	KAUST	
10:40-11:00	TuA03.3	
<i>Leader-Following Consensus of Multi-Agent Systems Via Event-Triggered <math>H_{\infty}</math> Control with Markovian Switching Topology</i> , pp. 2671-2676.		
Yang, Ruohan	Tongji Univ	
Zhang, Hao	Tongji Univ	
Yan, Huaicheng	East China Univ. of Science and Tech	
Yang, Fuwen	Griffith Univ	
11:00-11:20	TuA03.4	
<i>Output <math>H_{\infty}</math> Synchronization of Heterogeneous Linear Multi-Agent Systems Via a Distributed Output-Feedback</i> , pp. 2677-2682.		
Adib Yaghmaie, Farnaz	Nanyang Tech. Univ	
Hengster-Movric, Kristian	Czech Tech. Univ. in Prague, FEL	
Lewis, Frank L.	Univ. of Texas at Arlington	
Su, Rong	Nanyang Tech. Univ	
Sebek, Michael	Czech Tech. Univ. in Prague	
11:20-11:40	TuA03.5	
<i>Cooperative Control of Heterogeneous Multi-Agent Systems in Sampled-Data Setting</i> , pp. 2683-2688.		
Joo, Youngjun	Univ. of Central Florida	
Qu, Zhihua	Univ. of Central Florida	
Harvey, Roland	Univ. of Central Florida	
11:40-12:00	TuA03.6	
<i>Decentralized Adaptive Control of Robotic Systems Using Uncalibrated Joint Torque Sensors</i> , pp. 2689-2694.		
Namvar, Mehrzad	Sharif Univ. of Tech	
Mostafa, Almodaresi	Sharif Univ. of Tech	
<b>TuA04</b>		Starvine 4
<b>Quantifying Controllability in Complex Networks: Analysis and Design (Invited Session)</b>		
Chair: Tzoumas, Vasileios	Univ. of Pennsylvania	
Co-Chair: Summers, Tyler H.	Univ. of Texas at Dallas	
Organizer: Tzoumas, Vasileios	Univ. of Pennsylvania	
Organizer: Summers, Tyler H.	Univ. of Texas at Dallas	
10:00-10:20	TuA04.1	
<i>Near-Optimal Sensor Scheduling for Batch State Estimation: Complexity, Algorithms, and Limits</i> (I), pp. 2695-2702.		
Tzoumas, Vasileios	Univ. of Pennsylvania	
Jadbabaie, Ali	MIT	
Pappas, George J.	Univ. of Pennsylvania	
10:20-10:40	TuA04.2	
<i>Actuator Placement in Networks Using Optimal Control Performance Metrics (I)</i> , pp. 2703-2708.		
Summers, Tyler H.	Univ. of Texas at Dallas	
10:40-11:00	TuA04.3	
<i>Secure Distributed Observers for a Class of Linear Time Invariant Systems in the Presence of Byzantine Adversaries (I)</i> , pp. 2709-2714.		
Mitra, Aritra	Purdue Univ	
Sundaram, Shreyas	Purdue Univ	
11:00-11:20	TuA04.4	
<i>Leader Selection in Directed Networks (I)</i> , pp. 2715-2720.		
Dhingra, Neil K	Univ. of Minnesota	
Colombino, Marcello	ETH Zurich	
Jovanovic, Mihailo	Univ. of Minnesota	
11:20-11:40	TuA04.5	
<i>Enhanced Stability Analysis for Networked Control Systems under Random and Malicious Packet Losses</i> , pp. 2721-2726.		
Cetinkaya, Ahmet	Tokyo Inst. of Tech	
Ishii, Hideaki	Tokyo Inst. of Tech	
Hayakawa, Tomohisa	Tokyo Inst. of Tech	
11:40-12:00	TuA04.6	
<i>Energy Efficient Time-Triggered Control Over Wireless Sensor/Actuator Networks</i> , pp. 2727-2732.		
S Varma, Vineeth	Univ. De Lorraine	
Postoyan, Romain	CNRS-CRAN	
<b>TuA05</b>		Starvine 5
<b>Optimization-Based Estimation and Predictive Control under Uncertainty (Invited Session)</b>		
Chair: Mesbah, Ali	Univ. of California, Berkeley	
Co-Chair: Muñoz de la Peña, David	Univ. De Sevilla	
Organizer: Mesbah, Ali	Univ. of California, Berkeley	
Organizer: Lucia, Sergio	OVG Univ. of Magdeburg	
Organizer: Findeisen, Rolf	OVG Univ. Magdeburg	
10:00-10:20	TuA05.1	
<i>Enhancing Output Feedback MPC for Linear Discrete-Time Systems with Set-Valued Moving Horizon Estimation</i> (I), pp. 2733-2738.		
Brunner, Florian David	Univ. of Stuttgart	
Muller, Matthias A.	Univ. of Stuttgart	
Allgöwer, Frank	Univ. of Stuttgart	
10:20-10:40	TuA05.2	
<i>Robust Economic Model Predictive Control of a Community Micro-Grid</i> (I), pp. 2739-2744.		
Pereira, Mario	Univ. De Sevilla	
Muñoz de la Peña, David	Univ. De Sevilla	
Limon, Daniel	Univ. De Sevilla	
10:40-11:00	TuA05.3	
<i>Stochastic Predictive Control with Adaptive Model Maintenance</i> (I), pp. 2745-2750.		
Bavdekar, Vinay Anil	Univ. of California Berkeley	
Ehlinger, Victoria	Univ. of California at Berkeley	
Gidon, Dogan	UC Berkeley	
Mesbah, Ali	Univ. of California, Berkeley	
11:00-11:20	TuA05.4	
<i>Model Predictive Control for Uncertain Nonlinear Systems Subject to</i>		

*Chance Constraints (I)*, pp. 2751-2756.

Yu, Shyou  
Qu, Ting  
Findeisen, Rolf  
Chen, Hong

Jilin Univ  
Jilin Univ  
OGV Univ. Magdeburg  
Jilin Univ. Campus NanLing

11:20-11:40

TuA05.5

*Finite-Horizon Dynamic Compensation of Markov Jump Linear Systems without Mode Observation (I)*, pp. 2757-2762.

Dolgov, Maxim  
Kurz, Gerhard  
Hanebeck, Uwe D.

Karlsruhe Inst. of Tech. (KIT)  
Karlsruhe Inst. of Tech. (KIT)  
Karlsruhe Inst. of Tech. (KIT)

11:40-12:00

TuA05.6

*Exploiting Models of Different Granularity in Robust Predictive Control (I)*, pp. 2763-2768.

Bäthge, Tobias  
Lucia, Sergio  
Findeisen, Rolf

OvGU Magdeburg  
OvG Univ. of Magdeburg  
OGV Univ. Magdeburg

**TuA06**

Starvine 6

**Optimal Control IV (Regular Session)**

Chair: Zhang, Jing  
Co-Chair: Wang, Yuh-Shyang

Tsinghua Univ  
California Inst. of Tech

10:00-10:20

TuA06.1

*Localized LQR with Adaptive Constraint and Performance Guarantee*, pp. 2769-2776.

Wang, Yuh-Shyang

California Inst. of Tech

10:20-10:40

TuA06.2

*Optimal Control Protocols Can Be Exponentially Accelerated by Quantum Algorithms*, pp. 2777-2782.

Sun, He  
Zhang, Jing  
Wu, Re-Bing  
Rabitz, Herschel  
Tarn, Tzyh-Jong

Tsinghua Univ  
Tsinghua Univ  
Tsinghua Univ  
Princeton Univ  
Washington Univ

10:40-11:00

TuA06.3

*On the Hughes Model and Numerical Aspects*, pp. 2783-2788.

Gomes, Diogo  
Machado Velho, Roberto

King Abdullah Univ. of Science and Tech  
King Abdullah Univ. of Science and Tech

11:00-11:20

TuA06.4

*Symbolic Method for Deriving Policy in Reinforcement Learning*, pp. 2789-2795.

Alibekov, Eduard  
Kubalik, Jiri  
Babuska, R.

Czech Tech. Univ. in Prague  
Czech Inst. of Informatics, Robotics, and Cybernetics, CTU I  
Delft Univ. of Tech

11:20-11:40

TuA06.5

*An Optimum Control-Based Approach for Dynamic Positioning of Vessels*, pp. 2796-2801.

Jayasiri, Awantha  
Nandan, Anirudh  
Imtiaz, Syed  
Ahmed, Salim

Memorial Univ. of Newfoundland  
Memorial Univ. of Newfoundland  
Memorial Univ. of Newfoundland  
Qatar Univ

11:40-12:00

TuA06.6

*Multi-Agent Coordination in Dynamic Networks*, pp. 2802-2807.

Romvary, Jordan J.

Annaswamy, Anuradha M.

Massachusetts Inst. of Tech

Massachusetts Inst. of Tech

**TuA07**

Starvine 7

**Optimization Algorithms IV (Regular Session)**

Chair: Cantoni, Michael

Univ. of Melbourne

Co-Chair: Mishra, Bamdev

Amazon Development Centre India

10:00-10:20

TuA07.1

*A Hessian-Free Algorithm for Solving Quadratic Optimization Problems with Nonlinear Equality Constraints*, pp. 2808-2813.

Nguyen, Tuan T.

Eindhoven Univ. of Tech

Lazar, Mircea

Eindhoven Univ. of Tech

Butler, Hans

ASML

10:20-10:40

TuA07.2

*A Variant to Sequential Quadratic Programming for Nonlinear Model Predictive Control*, pp. 2814-2819.

Torrisi, Giampaolo

ETH Zurich

Grammatico, Sergio

Eindhoven Univ. of Tech

Smith, Roy S.

ETH Zurich

Morari, Manfred

ETH Zurich

10:40-11:00

TuA07.3

*Scaled Stochastic Gradient Descent for Low-Rank Matrix Completion*, pp. 2820-2825.

Mishra, Bamdev

Amazon Development Centre India

Sepulchre, Rodolphe

Univ. of Cambridge

11:00-11:20

TuA07.4

*On a Class of Multi-Parametric Quadratic Programming and Its Applications to Machine Learning*, pp. 2826-2833.

Zhou, Yuxun

UC Berkeley

Spanos, Costas

UC Berkeley

11:20-11:40

TuA07.5

*A Compressive Sensing-Based Pixel Sharing Algorithm for High-Speed Atomic Force Microscopy*, pp. 2834-2839.

Luo, Yufan

Boston Univ

Andersson, Sean B.

Boston Univ

11:40-12:00

TuA07.6

*Guaranteed Maximum Power Point Tracking by Scalar Iterations with Quadratic Convergence Rate*, pp. 2840-2845.

Shames, Iman

The Univ. of Melbroune

Farokhi, Farhad

The Univ. of Melbourne

Cantoni, Michael

Univ. of Melbourne

**TuA08**

Starvine 8

**Stochastic Systems I (Regular Session)**

Chair: Carravetta, Francesco

IASI-CNR

Co-Chair: Solo, Victor

Univ. of New South Wales

10:00-10:20

TuA08.1

*Motion Camouflage in the Presence of Sensory Noise and Delay*, pp. 2846-2852.

Raju, Vidya

Univ. of Maryland

Krishnaprasad, P. S.

Univ. of Maryland

10:20-10:40

TuA08.2

*Numerical Methods for Stochastic Differential Equations in the Stiefel*

*Manifold Made Simple*, pp. 2853-2860.

Marjanovic, Goran  
Piggott, Marc James  
Solo, Victor

Univ. of New South Wales  
Univ. of New South Wales  
Univ. of New South Wales

10:40-11:00

TuA08.3

*All Stabilizing and Concealing Gaussian Type Controllers for Linear Scalar Systems*, pp. 2861-2866.

Sato, Kazuhiro  
Azuma, Shun-ichi

Kyoto Univ  
Kyoto Univ

11:00-11:20

TuA08.4

*Coverage and Field Estimation on Bounded Domains by Diffusive Swarms*, pp. 2867-2874.

Elamvazhuthi, Karthik  
Adams, Chase  
Berman, Spring

Arizona State Univ  
Arizona State Univ  
Arizona State Univ

11:20-11:40

TuA08.5

*Field Kalman Filter and Its Approximation*, pp. 2875-2880.

Bania, Piotr  
Baranowski, Jerzy

AGH Univ. OF SCIENCE AND Tech

11:40-12:00

TuA08.6

*On Stock Trading Using a Controller with Delay: The Robust Positive Expectation Property*, pp. 2881-2887.

Malekpour, Shirzad  
Barmish, B. Ross

Univ. of Wisconsin-Madison  
Univ. of Wisconsin

**TuA09**

Starvine 9

**Estimation IV (Regular Session)**

Chair: Arcak, Murat  
Co-Chair: Alessandri, Angelo

Univ. of California, Berkeley  
Univ. of Genoa

10:00-10:20

TuA09.1

*Joint Order Identification and Estimation of the Discrete Relaxation Spectrum for Ground Penetrating Radars*, pp. 2888-2893.

Masoud, Ahamd A.  
Al-Shaikhli, Ali

KFUPM  
King Fahad Univ. of Petroleum & Minerals, Dhahran, Saudi Ar

10:20-10:40

TuA09.2

*Parallel Dynamic Programming for Optimal Experiment Design in Nonlinear Systems*, pp. 2894-2899.

Maidens, John  
Packard, Andrew K.  
Arcak, Murat

Univ. of California, Berkeley  
Univ. of California at Berkeley  
Univ. of California, Berkeley

10:40-11:00

TuA09.3

*Stability Analysis and Robustness Assessment of Deterministic and Stochastic Nonlinear Moving Horizon Estimators*, pp. 2900-2905.

Suwantong, Rata  
Bertrand, Sylvain  
Dumur, Didier  
Beauvois, Dominique

The Geo-Informatics and Space Tech. Development Agency (Pub  
ONERA  
CentraleSupelec  
Ec. Superieure D'Electricite

11:00-11:20

TuA09.4

*Moving-Horizon Estimation for Discrete-Time Linear and Nonlinear Systems Using the Gradient and Newton Methods (I)*, pp. 2906-2911.

Alessandri, Angelo  
Gaggero, Mauro

Univ. of Genoa  
National Res. Council of Italy

11:20-11:40

TuA09.5

*SLAM Pose-Graph Robustification Via Multi-Scale Heat-Kernel Analysis*, pp. 2912-2919.

Datta, Sayantan  
Tourani, Siddharth  
Sharma, Avinash  
Krishna, K. Madhava

International Inst. of Information Tech. Hyderabad  
IIIT Hyderabad  
IIIT Hyderabad  
IIIT-Hyderabad

11:40-12:00

TuA09.6

*Fully Distributed State Estimation with Multiple Model Approach*, pp. 2920-2925.

Wang, Shaocheng  
Ren, Wei  
Chen, Jie

Univ. of California, Riverside  
Univ. of California, Riverside  
Beijing Inst. of Tech

**TuA10**

Starvine 10

**Identification IV (Regular Session)**

Chair: Leong, Alex S.  
Co-Chair: Chiuso, Alessandro

Paderborn Univ  
Univ. Di Padova

10:00-10:20

TuA10.1

*Leading Impulse Response Identification Via the Weighted Elastic Net Criterion*, pp. 2926-2931.

Calafiore, Giuseppe C.  
Novara, Carlo  
Taragna, Michele

Pol. Di Torino  
Pol. Di Torino  
Pol. Di Torino

10:20-10:40

TuA10.2

*On the Identification of FIR Systems with Binary Input and Output Observations*, pp. 2932-2937.

Leong, Alex S.  
Weyer, Erik  
Nair, Girish N.

Paderborn Univ  
Univ. of Melbourne  
Univ. of Melbourne

10:40-11:00

TuA10.3

*System Identification from Partial Samples: Non-Asymptotic Analysis*, pp. 2938-2944.

Rao, Milind  
Kipnis, Alon  
Javidi, Tara  
Eldar, Yonina  
Goldsmith, Andrea

Stanford Univ  
Stanford Univ  
Univ. of California, San Diego  
Tech. Israel Inst. of Tech  
Stanford Univ

11:00-11:20

TuA10.4

*Online Semi-Parametric Learning for Inverse Dynamics Modeling*, pp. 2945-2950.

Romeres, Diego  
Zorzi, Mattia  
Chiuso, Alessandro  
Camoriano, Raffaello

Univ. of Padova  
Univ. Degli Studi Di Padova  
Univ. Di Padova  
Istituto Italiano Di Tecnologia and Univ. Degli Studi Di Ge

11:20-11:40

TuA10.5

*Innovation-Based Subspace Identification in Open and Closed-Loop*, pp. 2951-2956.

Mercère, Guillaume  
Markovsky, Ivan  
Ramos, Jose A.

Univ. of Poitiers  
Vrije Univ. Brussel  
Nova Southeastern Univ

11:40-12:00

TuA10.6

*Convergence Analysis of a Real-Time Identification Algorithm for Switched Linear Systems with Bounded Noise*, pp. 2957-2962.

GOUDJIL, Abdelhak

Univ. of Caen Normandy

Pouliquen, Mathieu Pigeon, Eric Gehan, Olivier	Univ. De Caen Univ. of CAEN ENSICAEN	Starvine 11	Verifying Continuous-Time Stochastic Hybrid Systems Via Mori-Zwanzig Model Reduction, pp. 3012-3017.
<b>TuA11</b> <b>Adaptive Systems (Regular Session)</b>		Starvine 11	
Chair: Ebenbauer, Christian Co-Chair: Gibson, Travis E.	Univ. of Stuttgart Harvard Medical School	TuA11.1	Wang, Yu Univ. of Illinois at Urbana-Champaign
10:00-10:20			Roohi, Nima Univ. of Illinois at Urbana-Champaign
<i>Extremum Control of Linear Systems Based on Output Feedback</i> , pp. 2963-2968.			West, Matthew Univ. of Illinois, Urbana-Champaign
Michałowsky, Simon Ebenbauer, Christian	Univ. of Stuttgart Univ. of Stuttgart		Viswanathan, Mahesh Univ. of Illinois
10:20-10:40		TuA11.2	Dullerud, Geir E. Univ. of Illinois, Urbana-Champaign
<i>Adaptation and Synchronization Over a Network: Asymptotic Error Convergence and Pinning</i> , pp. 2969-2974.			
Gibson, Travis E.	Harvard Medical School		
10:40-11:00		TuA11.3	
<i>Adaptive Control Algorithm for Linear Systems with Matched and Unmatched Uncertainties</i> , pp. 2975-2980.			
Yayla, Metehan Kutay, Ali	Middle East Tech. Univ Middle East Tech. Univ		
11:00-11:20		TuA11.4	
<i>Identification of Unknown Sinusoids in 2 X 2 Linear Hyperbolic PDEs</i> , pp. 2981-2987.			
Anfinsen, Henrik Strecker, Timm Aamo, Ole Morten	Norwegian Univ. of Science and Tech Norwegian Univ. of Science and Tech NTNU		
11:20-11:40		TuA11.5	
<i>Adaptation and Synchronization Over a Network: Stabilization without a Reference Model</i> , pp. 2988-2993.			
Gibson, Travis E.	Harvard Medical School		
11:40-12:00		TuA11.6	
<i>Noisy Subspace Tracking in Continuous Time</i> , pp. 2994-2999.			
Solo, Victor	Univ. of New South Wales		
<b>TuA12</b> <b>Hybrid Systems (Regular Session)</b>	Starvine 12	Starvine 13	
Chair: Schoellig, Angela P Co-Chair: Dullerud, Geir E.	Univ. of Toronto Univ. of Illinois, Urbana-Champaign		
10:00-10:20		TuA12.1	
<i>On the Construction of Safe Controllable Regions for Affine Systems with Applications to Robotics</i> , pp. 3000-3005.			
Helwa, Mohamed K. Schoellig, Angela P	Univ. of Toronto Univ. of Toronto		
10:20-10:40		TuA12.2	
<i>Tracking Control for Hybrid Systems with State Jumps Using Gluing Function</i> , pp. 3006-3011.			
Kim, Jisu Shim, Hyunbo Seo, Jin H.	Seoul National Univ Seoul National Univ Seoul National Univ		
10:40-11:00		TuA12.3	
<b>TuA12.4</b> <i>System of Funnels Framework for Robust Global Non-Linear Control</i> , pp. 3018-3023.			
Shvartsman, Rina Teel, Andrew R.	Univ. of Melbourne Univ. of California at Santa Barbara		
11:00-11:20		TuA12.4	
Oetomo, Denny Nurjanto Nesic, Dragan	The Univ. of Melbourne Univ. of Melbourne		
11:20-11:40		TuA12.5	
<i>Causal Impact Modeling of State Dependent Impulsive Affine Systems Using Non-Standard Analysis</i> , pp. 3024-3029.			
Hyun, Nak-seung Patrick Verriest, Erik I.	Georgia Inst. of Tech Georgia Inst. of Tech		
11:40-12:00		TuA12.6	
<i>Stabilization of Linear Continuous-Time Systems Using Neuromorphic Vision Sensors</i> , pp. 3030-3036.			
Singh, Prince Yong, Sze Zheng GREGOIRE, Jean Censi, Andrea Frazzoli, Emilio	MIT Univ. of Michigan Mines ParisTech MIT Massachusetts Inst. of Tech		
<b>TuA13</b> <b>Nonlinear Systems I (Regular Session)</b>	Starvine 13		
Chair: Sjöberg, Jonas E. Co-Chair: Jorgensen, John Bagterp	Chalmers Univ. of Tech Tech. Univ. of Denmark		
10:00-10:20		TuA13.1	
<i>Recognizing System Parameters in Stochastic Complex Networks Using Adaptive Synchronization</i> , pp. 3037-3041.			
Tang, Ze Park, Ju H. Jung, Ho-Youl Lee, Tae H.	Department of Electrical Engineering, Yeungnam Univ. 280 D Yeungnam Univ Yeungnam Univ Yeungnam Univ		
10:20-10:40		TuA13.2	
<i>Consistency Aspects of Wiener-Hammerstein Model Identification in Presence of Process Noise</i> , pp. 3042-3047.			
Giordano, Giuseppe Sjöberg, Jonas E.	Chalmers Univ. of Tech Chalmers Univ. of Tech		
10:40-11:00		TuA13.3	
<i>An Efficient UD-Based Algorithm for the Computation of Maximum Likelihood Sensitivity of Continuous-Discrete Systems</i> , pp. 3048-3053.			
Boiroux, Dimitri Juhl, Rune	Tech. Univ. of Denmark Tech. Univ. of Denmark		

Madsen, Henrik	Tech. Univ. of Denmark	Systems
Jorgensen, John Bagterp	Tech. Univ. of Denmark	
11:00-11:20	TuA13.4	
<i>Combined State and Parameter Estimation and Identifiability of State Space Realizations</i> , pp. 3054-3059.		11:40-12:00 TuA14.6
Yu, Ming-Jui	Univ. of Michigan - Ann Arbor	<i>Output Memory-Based Event-Triggered Control (I)</i> , pp. 3106-3111.
Bernstein, Dennis S.	Univ. of Michigan	Davo, Miguel Angel Fiacchini, Mirko Prieur, Christophe
11:20-11:40	TuA13.5	Gipsa-Lab (CNRS) CNRS, Univ. Grenoble Alpes CNRS
<i>A Simulated Maximum Likelihood Method for Estimation of Stochastic Wiener Systems</i> , pp. 3060-3065.		
Abdalmoaty, Mohamed	KTH	
Hjalmarsson, Håkan	KTH Royal Inst. of Tech	
11:40-12:00	TuA13.6	
<i>Consistent Variable Selection for High-Dimensional Nonparametric Additive Nonlinear Systems</i> , pp. 3066-3071.		<b>TuA15</b> Ironwood 2
Mu, Biqiang	Chinese Acad. of Sciences	Chair: Demetriou, Michael A.
Zheng, Wei Xing	Western Sydney Univ	Co-Chair: Le Gorrec, Yann
Bai, Er-Wei	Univ. of Iowa	Organizer: Demetriou, Michael A.
<b>TuA14</b>	Ironwood 1	Organizer: Fahroo, Fariba
<b>Event-Triggered and Self-Triggered Estimation and Output-Feedback Control (Invited Session)</b>		Organizer: Le Gorrec, Yann
Chair: Hirche, Sandra	Tech. Univ. München	
Co-Chair: Xia, Meng	The MathWorks	Tanwani, Aneel
Organizer: Heemels, W.P.M.H.	Eindhoven Univ. of Tech	Prieur, Christophe
Organizer: Hirche, Sandra	Tech. Univ. München	Laas -- Cnrs
Organizer: Johansson, Karl H.	Royal Inst. of Tech	Tarbouriech, Sophie
10:00-10:20	TuA14.1	CNRS
<i>A QSR-Dissipativity and Passivity Based Analysis of Event-Triggered Networked Control Systems (I)</i> , pp. 3072-3077.		LAAS-CNRS
Rahnama, Arash	Univ. of Notre Dame	
Xia, Meng	The MathWorks	
Antsaklis, Panos J.	Univ. of Notre Dame	
10:20-10:40	TuA14.2	
<i>Self-Triggered Model Predictive Control for Continuous-Time Systems: A Multiple Discretizations Approach</i> , pp. 3078-3083.		10:00-10:20 TuA15.1
Hashimoto, Kazumune	Keio Univ	<i>Input-To-State Stabilization in <math>H^1</math>-Norm for Boundary Controlled Linear Hyperbolic PDEs with Application to Quantized Control (I)</i> , pp. 3112-3117.
Adachi, Shuichi	Keio Univ	Tanwani, Aneel
Dimarogonas, Dimos V.	Royal Inst. of Tech	Prieur, Christophe
10:40-11:00	TuA14.3	Organizer: Fahroo, Fariba
<i>Optimal Stationary Self-Triggered Sampling for Estimation (I)</i> , pp. 3084-3089.		Organizer: Le Gorrec, Yann
Soleymani, Touraj	Tech. Univ. München	
Hirche, Sandra	Tech. Univ. München	
Baras, John S.	Univ. of Maryland	
11:00-11:20	TuA14.4	
<i>Self-Triggered Time-Varying Convex Optimization (I)</i> , pp. 3090-3097.		<b>TuA15</b> Ironwood 2
Fazlyab, Mahyar	Univ. of Pennsylvania	Two Sided Boundary Stabilization of Two Linear Hyperbolic PDEs in Minimum Time (I), pp. 3118-3124.
Nowzari, Cameron	Univ. of Pennsylvania	AURIOL, Jean
Pappas, George J.	Univ. of Pennsylvania	Di Meglio, Florent
Ribeiro, Alejandro	Univ. of Pennsylvania	MINES ParisTech, PSL Res. Univ
Preciado, Victor M.	Univ. of Pennsylvania	MINES ParisTech
11:20-11:40	TuA14.5	
<i>Predictive and Self Triggering for Event-Based State Estimation (I)</i> , pp. 3098-3105.		10:40-11:00 TuA15.3
Trimpe, Sebastian	Max Planck Inst. for Intelligent	<i>Control of Transport PDE/Nonlinear ODE Cascades with State-Dependent Propagation Speed (I)</i> , pp. 3125-3130.
		Diagne, Mamadou
		Bekiaris-Liberis, Nikolaos
		Otto, Andreas
		Krstic, Miroslav
		Univ. of Michigan Ann Arbor
		Tech. Univ. of Crete
		Chemnitz Univ. of Tech
		Univ. of California, San Diego
		11:00-11:20 TuA15.4
		<i>Control of a Thermal Fluid Heat Exchanger with Actuator Dynamics (I)</i> , pp. 3131-3136.
		Burns, John A
		Zietsman, Lizette
		Virginia Tech
		Virginia Tech
		11:20-11:40 TuA15.5
		<i>On the Control by Interconnection and Exponential Stabilisation of Infinite Dimensional Port-Hamiltonian Systems</i> , pp. 3137-3142.
		Macchelli, Alessandro
		Univ. of Bologna - Italy
		11:40-12:00 TuA15.6
		<i>On Finite-Time Stabilization of Evolution Equations: A Homogeneous Approach</i> , pp. 3143-3148.
		Polyakov, Andrey
		Inria Lille Nord-Europe
		Coron, Jean-michel
		Univ. Pierre Et Marie Curie
		Rosier, Lionel
		Univ. Henri Poincare Nancy 1
		<b>TuA16</b> Ironwood 3
		<b>Delay Systems IV (Regular Session)</b>
		Chair: Malisoff, Michael
		Louisiana State Univ
		Co-Chair: Egorov, Alexey V.
		SPbSU
		10:00-10:20 TuA16.1

<i>Scanning the Space of Parameters for Stability Regions of Neutral Type Delay Systems: A Lyapunov Matrix Approach</i> , pp. 3149-3154.				
Gomez, Marco A.	CINVESTAV			UCLA
Cuvas, Carlos	Centro De Investigación Y De Estudios Avanzados Del Inst. Po	Christofides, Panagiotis D.	Univ. of California at Los Angeles	
Mondié, Sabine	CINVESTAV-IPN			
Egorov, Alexey V.	SPbSU			
10:20-10:40	TuA16.2			TuA17.3
<i>A Finite Necessary and Sufficient Stability Condition for Linear Retarded Type Systems</i> , pp. 3155-3160.				
Egorov, Alexey V.	SPbSU			
10:40-11:00	TuA16.3			TuA17.4
<i>Towards More General Stability Analysis of Systems with Delay-Dependent Coefficients</i> , pp. 3161-3166.				
Gu, Keqin	Southern Illinois Univ. Edwardsville	Sakamoto, Atsushi	The Univ. of Electro-Communications	
JIN, Chi	Supelec & Univ. Paris Saclay	Ikeda, Yuichi	Shonan Inst. of Tech	
Boussaada, Islam	IPSA & L2S, CNRS-Supelec-Univ. Paris Sud	Yamaguchi, Isao	National Defense Acad	
Niculescu, Silviu-Iulian	CNRS-Supelec	Kida, Takashi	Univ. of Electro-Communications	
11:00-11:20	TuA16.4			TuA17.5
<i>New Bounded Backstepping Control Designs for Time-Varying Systems under Converging-Input-Converging-State Conditions</i> , pp. 3167-3171.				
Mazenc, Frederic	Epi Inria Disco	Bayer, Florian Anton	Univ. of Stuttgart	
Malisoff, Michael	Louisiana State Univ	Muller, Matthias A.	Univ. of Stuttgart	
Weston, Jerome	Louisiana State Univ	Allgöwer, Frank	Univ. of Stuttgart	
11:20-11:40	TuA16.5			TuA17.6
<i>D-Stability and Delay-Independent Stability of Monotone Nonlinear Systems with Max-Separable Lyapunov Functions</i> , pp. 3172-3177.				
Besselink, Bart	Univ. of Groningen	Gonzalez Cisneros, Pablo	Hamburg Univ. of Tech	
Feyzmahdavian, Hamid Reza	Royal Inst. of Tech. (KTH)	Sebastian		
Sandberg, Henrik	KTH Royal Inst. of Tech	Voss, Sophia	Hamburg Univ. of Tech	
Johansson, Mikael	KTH - Royal Inst. of Tech	Werner, Herbert	Hamburg Univ. of Tech	
11:40-12:00	TuA16.6			
<i>New Prediction Approach for Stabilizing Time-Varying Systems under Time-Varying Input Delay</i> , pp. 3178-3182.				
Mazenc, Frederic	Epi Inria Disco			
Malisoff, Michael	Louisiana State Univ			
<b>TuA17</b>	Ironwood 6			<b>Ironwood 7</b>
<b>Predictive Control for Nonlinear Systems I (Regular Session)</b>				
Chair: Aguiar, A. Pedro	Faculty of Engineering, Univ. of Porto	Chair: Fridman, Emilia	Tel-Aviv Univ	
Co-Chair: Muller, Matthias A.	Univ. of Stuttgart	Co-Chair: Chiu, Wei-Yu	Yuan Ze Univ	
10:00-10:20	TuA17.1			TuA18.1
<i>Integrated/Coordinated Control of Aircraft Gas Turbine Engine and Electrical Power System: Towards Large Electrical Load Handling</i> , pp. 3183-3189.				
Seok, Jinwoo	Univ. of Michigan	Campos, Victor	Federal Univ. of Ouro Preto	
Kolmanovsky, Ilya V.	The Univ. of Michigan	Nguyen, AnhTu	Univ. of Valenciennes	
Girard, Anouck	Univ. of Michigan, Ann Arbor	Palhares, Reinaldo Martinez	Federal Univ. of Minas Gerais	
10:20-10:40	TuA17.2			TuA18.2
<i>Integrating Production Scheduling and Process Operation Via Economic Model Predictive Control</i> , pp. 3190-3195.				
Alanqar, Anas	Univ. of California, Los Angeles	Ahmad, Nur Syazreen	Univ. Sains Malaysia	
Durand, Helen	UCLA	Carrasco, Joaquin	Univ. of Manchester	
11:00-11:20	TuA18.4			
<i>Simple LMIs for Stabilization by Using Delays</i> , pp. 3240-3245.				
Fridman, Emilia				Tel-Aviv Univ
Shaikh, Leonid				Tel Aviv Univ
11:20-11:40	TuA18.5			

<i>Control of Linear Parameter-Varying Systems Using B-Splines</i> , pp. 3246-3251.			Air Force Res. Lab
Hilhorst, Gijs Lambrechts, Erik Pipeleers, Goele	KU Leuven KU Leuven Katholieke Univ. Leuven		
11:40-12:00	TuA18.6		
<i>Feasibility Analysis of the Bilinear Matrix Inequalities with an Application to Multi-Objective Nonlinear Observer Design</i> , pp. 3252-3257.			
Wang, Yan Rajamani, Rajesh	Univ. of Minnesota Univ. of Minnesota		
<b>TuA19</b>	Ironwood 8		
<b>Power Systems IV (Regular Session)</b>			
Chair: Lestas, Ioannis Co-Chair: Turitsyn, Konstantin	Univ. of Cambridge Massachusetts Inst. of Tech		
10:00-10:20	TuA19.1		
<i>Optimal Placement of Energy Storage in Distribution Networks</i> , pp. 3258-3264.			
Tang, Yujie Low, Steven	California Inst. of Tech California Inst. of Tech		
10:20-10:40	TuA19.2		
<i>Decomposition-Based Global Optimization for Optimal Design of Power Distribution Systems</i> , pp. 3265-3270.			
Li, Dan Li, Xiang	Queen's Univ Queen's Univ		
10:40-11:00	TuA19.3		
<i>Stability and Control of Ad Hoc DC Microgrids</i> , pp. 3271-3278.			
Belk, Julia Inam, Wardah Perreault, David Turitsyn, Konstantin	MIT MIT Massachusetts Inst. of Tech Massachusetts Inst. of Tech		
11:00-11:20	TuA19.4		
<i>Analytical Investigation of Poorly Damped Conditions in VSC-HVDC Systems</i> , pp. 3279-3285.			
Song, Yujiao Breitholtz, Claes Stamatiou, Georgios Bongiorno, Massimo	Chalmers Univ. of Tech Chalmers Univ. of Tech Chalmers Univ. of Tech Chalmers Univ. of Tech		
11:20-11:40	TuA19.5		
<i>Kirchhoff-Braess Phenomena in DC Electric Networks</i> , pp. 3286-3293.			
Wang, Shuai Baillieul, John	Boston Univ Boston Univ		
11:40-12:00	TuA19.6		
<i>Stability and Optimality of Distributed Schemes for Secondary Frequency Regulation in Power Networks</i> , pp. 3294-3299.			
Kasis, Andreas Devane, Eoin Lestas, Ioannis	Univ. of Cambridge Univ. of Cambridge Univ. of Cambridge		
<b>TuA20</b>	Coppearleaf 1		
<b>A Spacecraft Benchmark Problem for Analysis &amp; Control of Hybrid Systems (Invited Session)</b>			
Chair: Erwin, Richard Scott Co-Chair: L'Afflitto, Andrea	Air Force Res. Lab The Univ. of Oklahoma		
Organizer: Erwin, Richard Scott		Air Force Res. Lab	
Organizer: L'Afflitto, Andrea		The Univ. of Oklahoma	
10:00-10:20		TuA20.1	
<i>A Spacecraft Benchmark Problem for Hybrid Control and Estimation (I)</i> , pp. 3300-3305.			
Jewison, Christopher Erwin, Richard Scott	Massachusetts Inst. of Tech Air Force Res. Lab		
10:20-10:40		TuA20.2	
<i>Constrained Autonomous Satellite Docking Via Differential Flatness and Model Predictive Control (I)</i> , pp. 3306-3311.			
S. Farahani, Samira Papusha, Ivan McGhan, Catharine Murray, Richard M.	Max Plus Inst. for Software Systems California Inst. of Tech California Inst. of Tech California Inst. of Tech		
10:40-11:00		TuA20.3	
<i>Computing Reach-Avoid Sets for Space Vehicle Docking under Continuous Thrust (I)</i> , pp. 3312-3318.			
HomChaudhuri, Baisravan Oishi, Meeko Shubert, Matthew Baldwin, Morgan Erwin, Richard Scott	Univ. of New Mexico Univ. of New Mexico Univ. of New Mexico Air Force Res. Lab Air Force Res. Lab		
11:00-11:20		TuA20.4	
<i>Filter-Based Stochastic Abstractions for Constrained Planning with Limited Sensing (I)</i> , pp. 3319-3324.			
Poonawala, Hasan A. Topcu, Ufuk	Univ. of Texas at Austin The Univ. of Texas at Austin		
11:20-11:40		TuA20.5	
<i>Robust Hybrid Supervisory Control for Rendezvous and Docking of a Spacecraft (I)</i> , pp. 3325-3330.			
Malladi, Bharaniprabha Sanfelice, Ricardo G. Butcher, Eric Wang, Jingwei	Univ. of Arizona Univ. of California at Santa Cruz Univ. of Arizona Univ. of Arizona		
11:40-12:00		TuA20.6	
<i>Optimal Hybrid Controls for Global Exponential Tracking on the Two-Sphere</i> , pp. 3331-3337.			
Lee, Taeyoung	George Washington Univ		
<b>TuA21</b>	Coppearleaf 2		
<b>Biomolecular Systems (Regular Session)</b>			
Chair: Franco, Elisa Co-Chair: Materassi, Donatello	Univ. of California at Riverside Univ. of Tennessee, Knoxville		
10:00-10:20		TuA21.1	
<i>Design of a Multicellular Feedback Control Strategy in a Synthetic Bacterial Consortium (I)</i> , pp. 3338-3343.			
Fiore, Gianfranco Matyjaszkiewicz, Antoni Annunziata, Fabio Grierson, Claire Savery, Nigel Marucci, Lucia di Bernardo, Mario	Univ. of Bristol Univ. of Bristol Univ. of Bristol Univ. of Bristol Univ. of Bristol Univ. of Bristol Univ. of Bristol		
10:20-10:40		TuA21.2	

<i>Modelling, Simulation and Control of Single Cell Expression Dynamics of the Galactose-Inducible Promoter in Yeast (I)</i> , pp. 3344-3349.		TuA22.4
Perrino, Giansimone di Bernardo, Diego	Univ. of Naples Federico II Telethon Inst. of Genetics and Medicine	
10:40-11:00	TuA21.3	
<i>Exploring the Impact of Resource Limitations on Gene Network Reconstruction (I)</i> , pp. 3350-3355.		
Tyler, Quarton Kang, Taek Sontag, Eduardo D. Bleris, Leonidas	Univ. of Texas at Dallas Univ. of Texas at Dallas Rutgers Univ Univ. of Texas at Dallas	
11:00-11:20	TuA21.4	
<i>Steady State Dynamics of Molecular Motors Reveals Load Dependent Cooperativity</i> , pp. 3356-3362.		
Talukdar, Saurav Bhaban, Shreyas Materassi, Donatello Salapaka, Murti V.	Univ. of Minnesota - Twin Cities Univ. of Minnesota Univ. of Tennessee, Knoxville Univ. of Minnesota, Minneapolis	
11:20-11:40	TuA21.5	
<i>Quantifying Resource Competition and Its Effects in the TX-TL System</i> , pp. 3363-3368.		
Gyorgy, Andras Murray, Richard M.	Univ. of California, Berkeley California Inst. of Tech	
11:40-12:00	TuA21.6	
<i>Negative Feedback Enables Structurally Signed Steady-State Influences in Artificial Biomolecular Networks</i> , pp. 3369-3374.		
Giordano, Giulia Franco, Elisa	Lund Univ Univ. of California at Riverside	
<b>TuA22</b>	Coppearleaf 3	
<b>Neural Networks (Regular Session)</b>		
Chair: Bian, Tao Co-Chair: Ferrari, Silvia	Pol. School of Engineering, New York Univ Cornell Univ	
10:00-10:20	TuA22.1	
<i>Value Iteration, Adaptive Dynamic Programming, and Optimal Control of Nonlinear Systems</i> , pp. 3375-3380.		
Bian, Tao Jiang, Zhong-Ping	Pol. School of Engineering, New York Univ New York Univ	
10:20-10:40	TuA22.2	
<i>Spiking Neural Network (SNN) Control of a Flapping Insect-Scale Robot</i> , pp. 3381-3388.		
Clawson, Taylor Ferrari, Silvia Fuller, Sawyer Wood, Robert	Cornell Univ Cornell Univ Univ. of Washington Harvard Univ	
10:40-11:00	TuA22.3	
<i>An Adaptive Control Scheme for Non-Canonical Discrete-Time Neural Network Systems</i> , pp. 3389-3394.		
Zhang, Yanjun Tao, Gang Chen, Mou	Nanjing Univ. of Aeronautics and Astronautics Univ. of Virginia Nanjing Univ. of Aeronautics and Astronautics	
11:00-11:20		TuA22.4
<i>Event-Sampled Direct Adaptive NN State-Feedback Control of Uncertain Strict-Feedback System</i> , pp. 3395-3400.		
Szanto, Nathan Narayanan, Vignesh Jagannathan, Sarangapani	Missouri Univ. of Science and Tech Missouri Univ. of Science and Tech Missouri Univ. of Science & Tech	
11:20-11:40		TuA22.5
<i>Optimum Training Design for Neural Network in Synthesis of Robust Model Predictive Control</i> , pp. 3401-3406.		
Patan, Krzysztof Patan, Maciej Kowalów, Damian	Univ. of Zielona Gora Univ. of Zielona Gora Univ. of Zielona Góra	
<b>TuA23</b>	Ironwood 5	
<b>Formal Synthesis of Control Strategies for Dynamical Systems (Tutorial Session)</b>		
Chair: Belta, Calin Organizer: Belta, Calin	Boston Univ Boston Univ	
10:00-12:00		TuA23.1
<i>Formal Synthesis of Control Strategies for Dynamical Systems (I)</i> , pp. 3407-3431.		
Belta, Calin	Boston Univ	
<b>TuB01</b>	Starvine 1	
<b>Networked Control Systems I (Regular Session)</b>		
Chair: Mukherjee, Dwaipayan Co-Chair: Sun, Zhiyong	Tech. Israel Inst. of Tech Australian National Univ	
13:30-13:50		TuB01.1
<i>Retrofitting State Feedback Control of Networked Nonlinear Systems Based on Hierarchical Expansion</i> , pp. 3432-3437.		
Sadamoto, Tomonori Ishizaki, Takayuki Imura, Jun-ichi Sandberg, Henrik Johansson, Karl H.	Tokyo Inst. of Tech Tokyo Inst. of Tech Tokyo Inst. of Tech KTH Royal Inst. of Tech Royal Inst. of Tech	
13:50-14:10		TuB01.2
<i>Consensus Over Weighted Digraphs: A Robustness Perspective</i> , pp. 3438-3443.		
Mukherjee, Dwaipayan Zelazo, Daniel	Tech. Israel Inst. of Tech Tech. - Israel Inst. of Tech	
14:10-14:30		TuB01.3
<i>A New Distributed Zeno-Free Event-Triggered Algorithm for Multi-Agent Consensus</i> , pp. 3444-3449.		
Sun, Zhiyong Huang, Na Anderson, Brian D.O. Duan, Zhisheng	Australian National Univ Peking Univ Australian National Univ Peking Univ	
14:30-14:50		TuB01.4
<i>A Fixed Structure Topology for Wireless Networked Control Systems</i> , pp. 3450-3455.		
Al-Dabbagh, Ahmad Chen, Tongwen	Univ. of Alberta Univ. of Alberta	
14:50-15:10		TuB01.5

*Adaptive Control of Networked Distributed Systems with Unknown Interconnections*, pp. 3456-3461.

Lympertopoulos, Georgios Ioannou, Petros A.	Univ. of Southern California Univ. of Southern California
--	--

15:10-15:30 TuB01.6

*Formation Feasibility on Coordination Control of Networked Heterogeneous Systems with Drift Terms*, pp. 3462-3467.

Sun, Zhiyong Anderson, Brian D.O.	Australian National Univ Australian National Univ
--------------------------------------	--

**TuB02** Starvine 2

**Agents-Based Systems V (Regular Session)**

Chair: Markdahl, Johan Co-Chair: Varagnolo, Damiano	Univ. of Luxembourg LTU Luleå Univ. of Tech
--	--

13:30-13:50 TuB02.1

*Output Consensus of Second-Order Multi-Agent Systems with Mismatched Disturbances Via SMC and GPIO*, pp. 3468-3473.

Li, Guipu Wang, Xiangyu Li, Shihua Yang, Jun Chen, Xisong	School of Automation, Southeast Univ Southeast Univ Southeast Univ Southeast Univ Southeast Univ
---	--

13:50-14:10 TuB02.2

*A Tight Bound on the Bernoulli Trials Network Size Estimator*, pp. 3474-3480.

Lucchese, Riccardo Varagnolo, Damiano	LTU Luleå Univ. of Tech LTU Luleå Univ. of Tech
--	--

14:10-14:30 TuB02.3

*Global Stabilization of Rigid Formations Via Sliding Mode Control*, pp. 3481-3486.

Lin, Yanjun Wang, Lili Han, Tingrui Lin, Zhiyun Zheng, Ronghao	Zhejiang Univ Yale Univ Zhejiang Univ Zhejiang Univ City Univ. of Hong Kong
--	---

14:30-14:50 TuB02.4

*Global Convergence Properties of a Consensus Protocol on the N-Sphere*, pp. 3487-3492.

Markdahl, Johan Goncalves, Jorge	Univ. of Luxembourg Univ. of Cambridge
-------------------------------------	---

14:50-15:10 TuB02.5

*Formation Control of Heterogeneous Agents Over Directed Graphs*, pp. 3493-3498.

Han, Tingrui Lin, Zhiyun Xu, Yun Zheng, Ronghao Zhang, Haitao	Zhejiang Univ Zhejiang Univ Coll. of Electrical Engineering, Zhejiang Univ City Univ. of Hong Kong Univ. of Science and Tech. of China
---	--

15:10-15:30 TuB02.6

*Attitude Synchronization of Rigid Bodies Via Distributed Control*, pp. 3499-3504.

Dong, Yili Ohta, Yoshito	Kyoto Univ Kyoto Univ
-----------------------------	--------------------------

**TuB03** Starvine 3

**Cooperative Control V (Regular Session)**

Chair: Ishii, Hideaki Co-Chair: Montijano, Eduardo	Tokyo Inst. of Tech Centro Univ. De La Defensa
---	---

13:30-13:50 TuB03.1

*Resilient Randomized Quantized Consensus with Delayed Information*, pp. 3505-3510.

Dibaji, Seyed Mehran Ishii, Hideaki Tempo, Roberto	Massachusetts Inst. of Tech Tokyo Inst. of Tech CNR-IEIIT, Pol. Di Torino
--	---

13:50-14:10 TuB03.2

*Multi-Robot Persistent Coverage with Optimal Times*, pp. 3511-3517.

Palacios-Gasos, Jose Manuel Montijano, Eduardo Sagues, Carlos Llorente, Sergio	Univ. De Zaragoza Centro Univ. De La Defensa Univ. De Zaragoza BSH Bosch Siemens Home Appliances
---	---

14:10-14:30 TuB03.3

*Distributed Estimation and Control for Robotic Sensor Networks*, pp. 3518-3523.

Freundlich, Charles Lee, Soomin Zavlanos, Michael M.	Duke Univ Georgia Inst. of Tech Duke Univ
--	---

14:30-14:50 TuB03.4

*Partial Attitude Consensus for Underactuated Satellite Clusters*, pp. 3524-3529.

Brewer, John Matthew Tsiotras, Panagiotis	Georgia Inst. of Tech Georgia Inst. of Tech
--	--

14:50-15:10 TuB03.5

*A Common Framework for Attitude Synchronization of Unit Vectors in Networks with Switching Topology*, pp. 3530-3536.

Ótão Pereira, Pedro Miguel Boskos, Dimitris Dimarogonas, Dimos V.	KTH, Royal Inst. of Tech KTH Royal Inst. of Tech
---	--

15:10-15:30 TuB03.6

*Sign-Consensus of Linear Multi-Agent Systems Over Signed Graphs Using a Fully Distributed Protocol*, pp. 3537-3541.

Jiang, Ye Zhang, Hongwei Chen, Jie	Southwest Jiaotong Univ Southwest Jiaotong Univ City Univ. of Hong Kong
--	---

**TuB04** Starvine 4

**Social and Economic Networks (Invited Session)**

Chair: Ajorlou, Amir Co-Chair: Jadbabaie, Ali Organizer: Ajorlou, Amir Organizer: Jadbabaie, Ali	Massachusetts Inst. of Tech MIT Massachusetts Inst. of Tech MIT
---	--

13:30-13:50 TuB04.1

*Notions of Centrality in Consensus Protocols with Structured Uncertainties (I)*, pp. 3542-3547.

Siami, Milad Bamieh, Bassam Bolouki, Sadegh	Lehigh Univ Univ. of California at Santa Barbara Univ. of Illinois, Urbana-Champaign
---	--

Motee, Nader	Lehigh Univ		
13:50-14:10	TuB04.2		
<i>When Helbing Meets Laumond: The Headed Social Force Model</i> , pp. 3548-3553.			
Farina, Francesco	Univ. Di Siena		
Fontanelli, Daniele	Univ. of Trento		
Garulli, Andrea	Univ. Di Siena		
Giannitrapani, Antonio	Univ. Di Siena		
Pratichizzo, Domenico	Univ. of Siena		
14:10-14:30	TuB04.3		
<i>Dynamic Models of Appraisal Networks Explaining Collective Learning</i> (I), pp. 3554-3559.			
MEI, WENJUN	Univ. of California, Santa Barbara		
Friedkin, Noah E.	Univ. of California at Santa Barbara		
Lewis, Kyle	UC Santa Barbara		
Bullo, Francesco	Univ. California at Santa Barbara		
14:30-14:50	TuB04.4		
<i>Improved Bounds on the Epidemic Threshold of Exact SIS Models on Complex Networks</i> (I), pp. 3560-3565.			
Azizan Ruhi, Navid	Caltech		
Thrampoulidis, Christos	California Inst. of Tech		
Hassibi, Babak	Caltech		
14:50-15:10	TuB04.5		
<i>Slopey Quantizers Are Locally Optimal for Witsenhausen's Counterexample</i> (I), pp. 3566-3571.			
Ajorlou, Amir	Massachusetts Inst. of Tech		
Jadbabaie, Ali	MIT		
15:10-15:30	TuB04.6		
<i>The Discrete-Time Altafini Model of Opinion Dynamics with Communication Delays and Quantization</i> (I), pp. 3572-3577.			
Liu, Ji	Univ. of Illinois at Urbana-Champaign		
El Chamie, Mahmoud	Univ. of Washington		
Basar, Tamer	Univ. of Illinois, Urbana-Champaign		
Acikmese, Behcet	Univ. of Washington		
<b>TuB05</b>	Starvine 5		
<b>Game-Theoretic Control and Incentive Design for Large-Scale Multi-Agent Systems</b> (Invited Session)			
Chair: Grammatico, Sergio	Eindhoven Univ. of Tech		
Co-Chair: Moon, Jun	Ulsan National Inst. of Science and Tech		
Organizer: Grammatico, Sergio	Eindhoven Univ. of Tech		
Organizer: Zhu, Minghui	Pennsylvania State Univ		
13:30-13:50	TuB05.1		
<i>Discrete-Time Stochastic Stackelberg Dynamic Games with a Large Number of Followers</i> (I), pp. 3578-3583.			
Moon, Jun	Ulsan National Inst. of Science and Tech		
Basar, Tamer	Univ. of Illinois, Urbana-Champaign		
13:50-14:10	TuB05.2		
<i>On Social Optima of Non-Cooperative Mean Field Games</i> (I), pp. 3584-3590.			
Li, Sen	Ohio State Univ		
Zhang, Wei	The Ohio State Univ		
Zhao, Lin	The Ohio State Univ		
Lian, Jianming	Pacific Northwest National Lab		
Kalsi, Karan	Pacific Northwest National Lab		
14:10-14:30	TuB05.3		
<i>Inexact Best-Response Schemes for Stochastic Nash Games: Linear Convergence and Iteration Complexity Analysis</i> (I), pp. 3591-3596.			
Shanbhag, Uday V.	Pennsylvania State Univ		
Sen, Suvrajeet	Univ. of Southern California		
Pang, Jong-Shi	Univ. of Illinois, Urbana-Champaign		
14:30-14:50	TuB05.4		
<i>Aggregative Control of Competitive Agents with Coupled Quadratic Costs and Shared Constraints</i> (I), pp. 3597-3602.			
Grammatico, Sergio	Eindhoven Univ. of Tech		
14:50-15:10	TuB05.5		
<i>Repeated Games for Power Control in Wireless Communications: Equilibrium and Regret</i> , pp. 3603-3610.			
Zhou, Zhengyuan	Stanford Univ		
Glynn, Peter	Stanford Univ		
Bambos, Nicholas	Stanford Univ		
15:10-15:30	TuB05.6		
<i>Parameterization of Equilibrium Assessment in Bayesian Game with Its Application to Belief Computation</i> , pp. 3611-3616.			
Kogiso, Kiminao	The Univ. of Electro-Communications		
Suzuki, Takashi	The Univ. of Electro-Communications		
<b>TuB06</b>	Starvine 6		
<b>Optimal Control V</b> (Regular Session)			
Chair: Acikmese, Behcet	Univ. of Washington		
Co-Chair: Savla, Ketan	Univ. of Southern California		
13:30-13:50	TuB06.1		
<i>On the Optimal Control of Systems Evolving with State Suprema</i> , pp. 3617-3623.			
Azhmyakov, Vadim	Univ. De Medellin		
Ahmed, Aftab	Georgia Inst. of Tech		
Verriest, Erik I.	Georgia Inst. of Tech		
13:50-14:10	TuB06.2		
<i>Optimal Actuator/Sensor Selection through Dynamic Output Feedback</i> , pp. 3624-3629.			
Argha, Ahmadreza	Univ. of Tech. Sydney		
Su, Steven W.	Univ. of Tech. Sydney		
Savkin, Andrey V.	Univ. of New South Wales		
14:10-14:30	TuB06.3		
<i>A Hamilton-Jacobi-Bellman Approach for the Optimal Control of an Abort Landing Problem</i> , pp. 3630-3635.			
Bokanowski, Olivier	Univ. Paris-Diderot		
Desilles, Anna	ENSTA ParisTech		
Zidani, Hasnaa	ENSTA ParisTech		
Assellaou, Mohamed	ENSTA Paris-Tech		
14:30-14:50	TuB06.4		
<i>Successive Convexification of Non-Convex Optimal Control Problems and Its Convergence Properties</i> , pp. 3636-3641.			

Mao, Yuanqi	Univ. of Washington	Wang, Yu	Univ. of Illinois at Urbana-Champaign
Szmuk, Michael	Univ. of Washington	Hale, Matthew T.	Georgia Inst. of Tech
Acikmese, Behcet	Univ. of Washington	Egerstedt, Magnus	Georgia Inst. of Tech
14:50-15:10	TuB06.5	Dullerud, Geir E.	Univ. of Illinois, Urbana-Champaign
<i>Derivative-Free Trajectory Optimization with Unscented Dynamic Programming, pp. 3642-3647.</i>			
Manchester, Zachary	Harvard Univ		
Kuindersma, Scott	Harvard Univ		
15:10-15:30	TuB06.6		
<i>A Dynamic Programming Approach to Optimal Load Shedding Control of Cascading Failure in DC Power Networks, pp. 3648-3653.</i>			
Ba, Qin	Univ. of Southern California	Hsieh, Chung-Han	Univ. of Wisconsin-Madison
Savla, Ketan	Univ. of Southern California	Barmish, B. Ross	Univ. of Wisconsin
		Gubner, John A.	Univ. of Wisconsin-Madison
<b>TuB07</b>	Starvine 7		
<b>Optimization Algorithms V (Regular Session)</b>			
Chair: Nielsen, Isak	Linköping Univ	Soltani, Mohammad	Univ. of Delaware
Co-Chair: Hale, Matthew T.	Georgia Inst. of Tech	Possieri, Corrado	Univ. Di Roma Tor Vergata
13:30-13:50	TuB07.1		
<i>Reduced Memory Footprint in Multiparametric Quadratic Programming by Exploiting Low Rank Structure, pp. 3654-3661.</i>			
Nielsen, Isak	Linköping Univ		
Axehill, Daniel	Linköping Univ		
13:50-14:10	TuB07.2		
<i>ADMM Prescaling for Model Predictive Control, pp. 3662-3667.</i>			
Rey, Felix	ETH Zurich	Sadeghpour, Mehdi	Univ. of Michigan
Frick, Damian	ETH Zurich, Automatic Control Lab	Orosz, Gabor	Univ. of Michigan
Domahidi, Alexander	ETH Zurich		
Jerez, Juan Luis	ETH Zurich		
Morari, Manfred	ETH Zurich		
Lygeros, John	ETH Zurich		
14:10-14:30	TuB07.3		
<i>3D Multi-Contact Gait Design for Prostheses: Hybrid System Models, Virtual Constraints and Two-Step Direct Collocation, pp. 3668-3674.</i>			
Zhao, Huihua	Georgia Inst. of Tech	Ning, Zepeng	Harbin Inst. of Tech
Hereid, Ayonga	Georgia Inst. of Tech	Shen, Junnan	Harbin Inst. of Tech
Ambrose, Eric	Georgia Inst. of Tech	Shi, Peng	Univ. of Adelaide
Ames, Aaron D.	Georgia Inst. of Tech	Zhang, Lixian	Harbin Inst. of Tech
14:30-14:50	TuB07.4	Jiang, Zhe	Acad. of Mathematics and Systems Science
<i>An Improved Dual Newton Strategy for Scenario-Tree MPC, pp. 3675-3681.</i>			
Klintberg, Emil	Chalmers Univ. of Tech		
Dahl, John	Chalmers	Rajpurohit, Tanmay	Georgia Inst. of Tech
Fredriksson, Jonas	Chalmers Univ. of Tech	Haddad, Wassim M.	Georgia Inst. of Tech
Gros, Sebastien	Chalmers Univ. of Tech		
14:50-15:10	TuB07.5		
<i>Improved Hessian Estimation for Adaptive Random Directions Stochastic Approximation, pp. 3682-3687.</i>			
DANDA, SAI KOTI REDDY	INDIAN Inst. OF SCIENCE , BANGALORE	Chair: Karlsson, Niklas	AOL Platforms/Verizon
L.A., Prashanth	Univ. of Maryland, Coll. Park	Co-Chair: Kim, Jongrae	Univ. of Leeds
Bhatnagar, Shalabh	Indian Inst. of Science		
15:10-15:30	TuB07.6		
<i>Differentially Private Objective Functions in Distributed Cloud-Based Optimization, pp. 3688-3694.</i>			
<b>TuB08</b>	Starvine 8		
<b>Stochastic Systems II (Regular Session)</b>			
13:30-13:50	TuB08.1		
<i>Kelly Betting Can Be Too Conservative, pp. 3695-3701.</i>			
Hsieh, Chung-Han	Univ. of Wisconsin-Madison		
Barmish, B. Ross	Univ. of Wisconsin		
Gubner, John A.	Univ. of Wisconsin-Madison		
13:50-14:10	TuB08.2		
<i>Moment Dynamics for Linear Time-Triggered Stochastic Hybrid Systems, pp. 3702-3707.</i>			
Soltani, Mohammad	Univ. of Delaware		
Singh, Abhyudai	Univ. of Delaware		
14:10-14:30	TuB08.3		
<i>Stability of Continuous-Time Systems with Stochastic Delay, pp. 3708-3713.</i>			
Possieri, Corrado	Univ. Di Roma Tor Vergata		
Teel, Andrew R.	Univ. of California at Santa Barbara		
14:30-14:50	TuB08.4		
<i>Weak Reachability and Strong Recurrence for Stochastic Directed Graphs in Terms of Auxiliary Functions, pp. 3714-3719.</i>			
14:50-15:10	TuB08.5		
<i>Stability and Stabilization of Discrete-Time Semi-Markov Jump Linear Systems with Delay in Controller Mode Switching, pp. 3720-3725.</i>			
Ning, Zepeng	Harbin Inst. of Tech		
Shen, Junnan	Harbin Inst. of Tech		
Shi, Peng	Univ. of Adelaide		
Zhang, Lixian	Harbin Inst. of Tech		
Jiang, Zhe	Acad. of Mathematics and Systems Science		
15:10-15:30	TuB08.6		
<i>Finite-Time Partial Stability for Stochastic Dynamical Systems, pp. 3726-3731.</i>			
Rajpurohit, Tanmay	Georgia Inst. of Tech		
Haddad, Wassim M.	Georgia Inst. of Tech		
<b>TuB09</b>	Starvine 9		
<b>Estimation V (Regular Session)</b>			
13:30-13:50	TuB09.1		
<i>Adaptive Estimation of Small Event Rates, pp. 3732-3737.</i>			
Karlsson, Niklas	AOL Platforms/Verizon		
13:50-14:10	TuB09.2		

*Negative-Free Approximation of Probability Density Function for Nonlinear Projection Filter*, pp. 3738-3743.

Kim, Jongrae	Univ. of Leeds
Richardson, Robert	Univ. of Leeds

14:10-14:30	TuB09.3
-------------	---------

*Online Adaptive Bank of Recursive Least Square Estimators for Slowly Time-Varying and Abruptly Changing Systems*, pp. 3744-3750.

Sakakura, Yoshiaki	DENSO IT Lab. INC
Yamano, Chiharu	DENSO IT Lab. INC

14:30-14:50	TuB09.4
-------------	---------

*A Self-Tuning Velocity Observer Formulation for a Class of Nonlinear Systems*, pp. 3751-3756.

Bidikli, Baris	The Graduate School of Engineering and Applied Sciences, Dokuz E
Tatlicioglu, Enver	Izmir Inst. of Tech

Zergeroglu, Erkan	Gezbe Inst. of Tech
-------------------	---------------------

14:50-15:10	TuB09.5
-------------	---------

*Computationally Tractable Robust Moving Horizon Estimation Using an Approximate Convex Hull (I)*, pp. 3757-3762.

Sartipizadeh, Hossein	Department of Electrical Engineering, Colorado School of Mines
-----------------------	--

Vincent, Tyrone L.	Colorado School of Mines
--------------------	--------------------------

15:10-15:30	TuB09.6
-------------	---------

*Estimation of Multi-Sinusoidal Signals: A Deadbeat Methodology*, pp. 3763-3768.

Chen, Boli	Imperial Coll. London
Li, Peng	Imperial Coll. London
Pin, Gilberto	Electrolux Professional S.p.A. (Italy)
Parisini, Thomas	Imperial Coll. & Univ. of Trieste

<b>TuB10</b>	Starvine 10
--------------	-------------

#### **Identification V (Regular Session)**

Chair: Romeres, Diego	Univ. of Padova
Co-Chair: Gehan, Olivier	ENSICAEN

13:30-13:50	TuB10.1
-------------	---------

*Real-Time Identification of Linear Continuous-Time Systems with Slowly Time-Varying Parameters*, pp. 3769-3774.

Padilla Bernedo, Arturo	Univ. De La Frontera
Andrés	
Garnier, Hugues	Univ. of Lorraine
Young, Peter C.	Lancaster Univ
Yuz, Juan I.	Univ. Tecnica Federico Santa Maria

13:50-14:10	TuB10.2
-------------	---------

*Online Identification of Time-Varying Systems: A Bayesian Approach*, pp. 3775-3780.

Prando, Giulia	Univ. Di Padova
Romeres, Diego	Univ. of Padova
Chiuso, Alessandro	Univ. Di Padova

14:10-14:30	TuB10.3
-------------	---------

*Structural Properties of Affine LPV to LFR Transformation: Minimality, Input-Output Behavior and Identifiability*, pp. 3781-3786.

Alkhoury, Ziad	Univ. of Poitiers
Petreczky, Mihaly	UMR CNRS 9189, Ec. Centrale

Mercère, Guillaume	De Lille
	Univ. of Poitiers

14:30-14:50	TuB10.4
-------------	---------

*Continuous-Time System Identification Using Binary Measurements*, pp. 3787-3792.

Pouliquen, Mathieu	Univ. De Caen
GOUDJIL, Abdelhak	Univ. of Caen Normandy
Gehan, Olivier	ENSICAEN
Pigeon, Eric	Univ. of CAEN

14:50-15:10	TuB10.5
-------------	---------

*Bounded Error Identification Exploiting A-Priori Information on Noise Whiteness and Noise/output Correlation*, pp. 3793-3799.

Cerone, Vito	Pol. Di Torino
Razza, Valentino	Pol. Di Torino
Regruto, Diego	Pol. Di Torino

15:10-15:30	TuB10.6
-------------	---------

*A Single Stage Algorithm for Set-Membership Identification of Nonlinear Systems in Lur's Form*, pp. 3800-3806.

Cerone, Vito	Pol. Di Torino
Razza, Valentino	Pol. Di Torino
Regruto, Diego	Pol. Di Torino

<b>TuB11</b>	Starvine 11
--------------	-------------

#### **Robust Adaptive Control (Regular Session)**

Chair: Yucelen, Tansel	Missouri Univ. of Science and Tech
------------------------	------------------------------------

Co-Chair: Song, Yongduan	Chongqing Univ
--------------------------	----------------

13:30-13:50	TuB11.1
-------------	---------

*Model Reference Adaptive Control in the Presence of High-Order Actuator Dynamics*, pp. 3807-3812.

Gruenwald, Benjamin	Univ. of South Florida
Yucelen, Tansel	Univ. of South Florida
Muse, Jonathan	Wright Patterson Air Force Base
Wagner, Daniel	Missouri Univ. of Science and Tech

13:50-14:10	TuB11.2
-------------	---------

*An Adaptive Controller to Provide Near Optimal LQR Performance*, pp. 3813-3818.

Miller, Daniel E.	Univ. of Waterloo
-------------------	-------------------

14:10-14:30	TuB11.3
-------------	---------

*Decentralized Global Robust Output Regulation for Nonlinear Multi-Agent Systems in Output Feedback Form with Arbitrarily Large Uncertainty*, pp. 3819-3824.

Liu, Wei	The Chinese Univ. of Hong Kong
Huang, Jie	The Chinese Univ. of Hong Kong
Lin, Zongli	Univ. of Virginia

14:30-14:50	TuB11.4
-------------	---------

*Robustness of Adaptive Control for Three-Dimensional Curve Tracking under State Constraints: Effects of Scaling Control Terms*, pp. 3825-3830.

Malisoff, Michael	Louisiana State Univ
Sizemore, Robert	Louisiana State Univ
Zhang, Fumin	Georgia Inst. of Tech

14:50-15:10	TuB11.5
-------------	---------

*Order Determination and Robust Adaptive Control of Unknown Deterministic Input-Affine Systems: An Operational Controller*, pp. 3831-3836.

Jahandari, Sina	Univ. of Tennessee	Adamy, Jürgen	Tech. Univ. Darmstadt
Kalhor, Ahmad	Univ. of Tehran		
Araabi, Babak N.	Univ. of Tehran		
15:10-15:30	TuB11.6		
<i>Time-Varying Feedback for Finite-Time Robust Regulation of Normal-Form Nonlinear Systems</i> , pp. 3837-3842.			
Song, Yongduan	Chongqing Univ	Lopez-Ramirez, Francisco	INRIA Lille-Nord Europe
Wang, Yujuan	Chongqing Univ	Efimov, Denis	Inria
Holloway, John	Univ. of California, San Diego	Polyakov, Andrey	Inria Lille Nord-Europe
Krstic, Miroslav	Univ. of California, San Diego	Perruquetti, Wilfrid	Ec. Centrale De Lille
<b>TuB12</b>	Starvine 12		
<b>Algebraic and Geometric Methods I</b> (Regular Session)			
Chair: NICOLAU, Florentina	INRIA	Baldi, Simone	Delft Univ. of Tech
Co-Chair: Scarciotti, Giordano	Imperial Coll. London		
13:30-13:50	TuB12.1		
<i>A Geometric Characterisation of the Persistence of Excitation Condition for Sequences Generated by Discrete-Time Autonomous Systems</i> , pp. 3843-3847.			
Padoan, Alberto	Imperial Coll. London	Bhujwalla, Yusuf	Univ. De Lorraine
Scarciotti, Giordano	Imperial Coll. London	Laurain, Vincent	Univ. De Lorraine
Astolfi, Alessandro	Imperial Coll. & Univ. of Rome	Gilson, Marion	Univ. of Lorraine
13:50-14:10	TuB12.2		
<i>Steering for Beacon Pursuit under Limited Sensing</i> , pp. 3848-3855.			
Halder, Udit	Univ. of Maryland, Coll. Park	Zhang, Xikang	Northeastern Univ
Schlotfeldt, Brent	Univ. of Maryland	Cheng, Yongfang	Northeastern Univ
Krishnaprasad, P. S.	Univ. of Maryland	Wang, Yin	Northeastern Univ. / Avigilon
14:10-14:30	TuB12.3	Sznaier, Mario	Northeastern Univ
<i>Some Geometric Ideas for Feature Enhancement of Diffusion Tensor Fields</i> , pp. 3856-3861.			
Farooq, Hamza	Univ. of Minnesota	Camps, Octavia I.	Northeastern Univ
Chen, Yongxin	Univ. of Minnesota		
Georgiou, Tryphon T.	Univ. of California, Irvine		
Lenglet, Christophe	Univ. of Minnesota		
14:30-14:50	TuB12.4		
<i>Flatness of Two-Input Control-Affine Systems Linearizable Via a Two-Fold Prolongation</i> , pp. 3862-3867.			
NICOLAU, Florentina	INRIA	Zheng, Gang	INRIA
Respondek, Witold	INSA De Rouen	Boutat, Driss	INSA Centre Val De Loire
14:50-15:10	TuB12.5	WANG, Haoping	Nanjing Univ. of Science and Tech
<i>Affine Systems on Lie Groups and Invariance Entropy (I)</i> , pp. 3868-3873.			
Da Silva, Adriano J.	Univ. of Campinas		
15:10-15:30	TuB12.6		
<i>On Differential Input-To-State Stability</i> , pp. 3874-3879.			
Kawano, Yu	Kyoto Univ		
<b>TuB13</b>	Starvine 13		
<b>Nonlinear Systems II</b> (Regular Session)			
Chair: Baldi, Simone	Delft Univ. of Tech		
Co-Chair: Wang, Yin	Northeastern Univ		
13:30-13:50	TuB13.1		
<i>Output Feedback Control of Rational Nonlinear Systems: A New Approach Based on Passivity Indices</i> , pp. 3880-3885.			
Madeira, Diego de S.	Tech. Univ. Darmstadt	Yin, Xiang	Univ. of Michigan
		Lafortune, Stephane	Univ. of Michigan
<b>TuB14</b>	Ironwood 1		
<b>Discrete Event Systems</b> (Regular Session)			
Chair: Lafortune, Stephane	Univ. of Michigan		
Co-Chair: Warnick, Sean	Brigham Young Univ		
13:30-13:50	TuB14.1		
<i>Finding the Weakest Link(s): Coalition Games for Decentralized Discrete-Event Control</i> , pp. 3915-3922.			
Ricker, S. Laurie	Mount Allison Univ		
Marchand, Herve	INRIA Rennes - Bretagne Atlantique		
13:50-14:10	TuB14.2		
<i>On the Maximally-Permissive Range Control Problem in Partially-Observed Discrete Event Systems</i> , pp. 3923-3928.			
Yin, Xiang	Univ. of Michigan		
Lafortune, Stephane	Univ. of Michigan		
14:10-14:30	TuB14.3		
<i>Deadbeat-Like Approximations for Sequencing Non-Rigid Heaps</i> , pp. 3929-3934.			
Grimsman, David	Brigham Young Univ		
Warnick, Sean	Brigham Young Univ		
14:30-14:50	TuB14.4		
<i>On Liveness Enforcement for DSSP Net Systems</i> , pp. 3935-3941.			
Clavel Villagrasa, Daniel	Univ. of Zaragoza, Spain		

Mahulea, Cristian Silva, Manuel	Univ. of Zaragoza Univ. De Zaragoza		Bayen, Alexandre	Univ. of California at Berkeley
14:50-15:10	TuB14.5		15:10-15:30	TuB15.6
<i>Cycle Time Optimization for Deterministic Timed Weighted Marked Graphs under Infinite Server Semantics</i> , pp. 3942-3947.			<i>D-Optimal Spatio-Temporal Sampling Design for Identification of Distributed Parameter Systems (I)</i> , pp. 3985-3990.	
He, Zhou Li, Zhiwu Giua, Alessandro	Xidian Univ. & Aix-Marseille Univ Xidian Univ Aix-Marseille Univ. & Univ. of Cagliari		Patan, Maciej Ucinski, Dariusz	Univ. of Zielona Gora Univ. of Zielona Gora
15:10-15:30	TuB14.6			
<i>Codiagnosability Verification of Bounded Petri Nets Using Basis Markings</i> , pp. 3948-3953.			<b>TuB16</b>	Ironwood 3
Ran, Ning Su, Hongye Giua, Alessandro Seatzu, Carla	Zhejiang Univ Zhejiang Univ Aix-Marseille Univ. & Univ. of Cagliari Univ. of Cagliari		<b>Sampled-Data Control</b> (Regular Session)	
<b>TuB15</b>	Ironwood 2		Chair: Morarescu, Irinel-Constantin	Cran Cnrs Umr 7039 - UI
<b>Novel Estimation Schemes for PDEs</b> (Invited Session)			Co-Chair: Yamamoto, Kaoru	Univ. of Minnesota
Chair: Demetriou, Michael A. Co-Chair: Alessandri, Angelo Organizer: Demetriou, Michael A. Organizer: Fahroo, Fariba Organizer: Le Gorrec, Yann	Worcester Pol. Inst Univ. of Genoa Worcester Pol. Inst DARPA Ensmm, Femto-St / As2m		Fiacchini, Mirko Morarescu, Irinel-Constantin	CNRS, Univ. Grenoble Alpes Cran Cnrs Umr 7039 - UI
13:30-13:50	TuB15.1		13:30-13:50	TuB16.1
<i>Gradient-Based Schemes of Mobile Sensor Guidance for Estimating Spatially Distributed Systems in Hazardous Environments Using Value of Information (I)</i> , pp. 3954-3959.			<i>Stability Analysis for Systems with Asynchronous Sensors and Actuators</i> , pp. 3991-3996.	
Demetriou, Michael A.	Worcester Pol. Inst		Zeng, Shen Allgöwer, Frank	Univ. of Stuttgart Univ. of Stuttgart
13:50-14:10	TuB15.2		14:10-14:30	TuB16.3
<i>Sparse Kinetic Jurdjevic-Quinn Control for Mean-Field Equations (I)</i> , pp. 3960-3965.			<i>Tracking of Signals Beyond the Nyquist Frequency</i> , pp. 4003-4008.	
Piccoli, Benedetto Rossi, Francesco Trelat, Emmanuel	Rutgers Univ. - Camden Aix-Marseille Univ Univ. Pierre Et Marie Curie (Paris 6)		Yamamoto, Yutaka Yamamoto, Kaoru Nagahara, Masaaki	Kyoto Univ Univ. of Minnesota The Univ. of Kitakyushu
14:10-14:30	TuB15.3		14:30-14:50	TuB16.4
<i>Extended Kalman Filtering to Design Optimal Controllers of Fronts Generated by Level Set Methods (I)</i> , pp. 3966-3971.			<i>The \$L_{\text{infty}}/L_2\$ Hankel Norm of Sampled-Data Systems</i> , pp. 4009-4014.	
Alessandri, Angelo Bagnerini, Patrizia Gaggero, Mauro	Univ. of Genoa Univ. of Genoa National Res. Council of Italy		Hagiwara, Tomomichi Inai, Akira Kim, Jung Hoon	Kyoto Univ Kyoto Univ Korea Inst. of Science and Tech
14:30-14:50	TuB15.4		14:50-15:10	TuB16.5
<i>Robust Iterative Observer for Source Localization for Poisson Equation (I)</i> , pp. 3972-3978.			<i>Tracking Control Method for a Plant with Continuous Time Unstable Zeros: Finite Preactuation Based on State Trajectory Regeneration by Using Redundant Order Polynomial</i> , pp. 4015-4020.	
Majeed, Muhammad Usman Laleg-Kirati, Taous-Meriem	King Abdullah Univ. of Science and Tech. KAUST King Abdullah Univ. of Science and Tech. (KAUST)		Ohnishi, Wataru Fujimoto, Hiroshi	The Univ. of Tokyo The Univ. of Tokyo
14:50-15:10	TuB15.5		15:10-15:30	TuB16.6
<i>Filter Comparison for Estimation on Discretized PDEs Modeling Traffic: Ensemble Kalman Filter and Minimax Filter (I)</i> , pp. 3979-3984.			<i>A Study on Discretization Approach to the L-Infinity/L-2 Optimal Controller Synthesis Problem in Sampled-Data Systems</i> , pp. 4021-4026.	
Seo, Toru Tchrankian, Tigran Zhuk, Sergiy	Tokyo Inst. of Tech IBM		Kim, Jung Hoon Hagiwara, Tomomichi	Korea Inst. of Science and Tech Kyoto Univ
<b>TuB17</b>	Ironwood 6			
<b>Predictive Control for Nonlinear Systems II</b> (Regular Session)				
Chair: Lu, Qiugang Co-Chair: TAHIROVIC, Adnan				
13:30-13:50	TuB17.1			
<i>A Formulation of Advanced-Step Bilinear Carleman Approximation-Based Nonlinear Model Predictive Control</i> , pp. 4027-4032.				
Fang, Yizhou Armaou, Antonios				

13:50-14:10	TuB17.2		TuB18.4
<i>A Globally Stabilizing Nonlinear Model Predictive Control Framework</i> , pp. 4033-4039.		<i>Robust Steady State Optimization for Polytopic Systems</i> , pp. 4084-4089.	
TAHIROVIC, Adnan Dzuzdanovic, Samir	Univ. of Sarajevo Kv Team	Brunner, Florian David Bayer, Florian Anton Allgöwer, Frank	Univ. of Stuttgart Univ. of Stuttgart Univ. of Stuttgart
14:10-14:30	TuB17.3		TuB18.5
<i>Multiobjective Economic Model Predictive Control of Mechanical Pulsing Processes</i> , pp. 4040-4045.		<i>Interval Observer for LPV Systems Based on Time-Variant Transformations</i> , pp. 4090-4096.	
TIAN, HUI Lu, Qiugang Gopaluni, Bhushan Zavala, Victor	The Univ. of British Columbia The Univ. of British Columbia Univ. of British Columbia Univ. of Wisconsin-Madison	Krebs, Stefan Pfeifer, Martin Fugel, Sebastian Weigold, Jörg Hohmann, Soeren	Inst. of Control Systems, Karlsruhe Inst. of Tech Inst. of Control Systems, Karlsruhe Inst. of Tech KIT, Inst. of Control Systems Daimler AG KIT
14:30-14:50	TuB17.4		TuB18.6
<i>A Linearized Robust Model Predictive Control Applied to Bioprocess</i> , pp. 4046-4052.		<i>Convex Estimation of the \$alpha\$-Confidence Reachable Sets of Systems with Parametric Uncertainty</i> , pp. 4097-4103.	
BENATTIA, Seif Eddine Tebbani, Sihem Dumur, Didier	Supélec Supec CentraleSupec	Holmes, Patrick Kousik, Shreyas Mohan, Shankar Vasudevan, Ramanarayanan	Univ. of Michigan Univ. of Michigan - Ann Arbor Univ. of Michigan Univ. of Michigan
14:50-15:10	TuB17.5		
<i>Optimal Charging of a Li-Ion Cell: A Hybrid Model Predictive Control Approach</i> , pp. 4053-4058.			
Torchio, Marcello Magni, Lalo Braatz, Richard D. Raimondo, Davide Martino	Univ. of Pavia Univ. of Pavia Massachusetts Inst. of Tech Univ. Degli Studi Di Pavia		
15:10-15:30	TuB17.6		
<i>A Tube-Based Approach to Nonlinear Explicit MPC</i> , pp. 4059-4064.			
Bayer, Florian Anton Brunner, Florian David Lazar, Mircea Wijnand, Marc Gerard Albert Allgöwer, Frank	Univ. of Stuttgart Univ. of Stuttgart Eindhoven Univ. of Tech Alten Univ. of Stuttgart	Bazrafshan, Mohammadhafez Gatsis, Nikolaos Taha, Ahmad Taylor, Joshua	The Univ. of Texas at San Antonio The Univ. of Texas at San Antonio Univ. of Texas at San Antonio Univ. of Toronto
<b>TuB18</b>	Ironwood 7		
<b>Uncertain Systems (Regular Session)</b>			
Chair: Lin, Wei Co-Chair: Findeisen, Rolf	Case Western Res. Univ OVG Univ. Magdeburg	Chair: Lavaei, Javad Co-Chair: Efimov, Denis	UC Berkeley Inria - Lne
13:30-13:50	TuB18.1		TuB19.1
<i>Verifying Robust Forward Admissibility for Nonlinear Systems Using (Skewed) Structured Singular Values</i> , pp. 4065-4071.		<i>Augmenting the Optimal Power Flow for Stability</i> , pp. 4104-4109.	
Kishida, Masako Koegel, Markus Findeisen, Rolf	National Inst. of Informatics OVG Univ. Magdeburg OVG Univ. Magdeburg	Bazrafshan, Mohammadhafez Gatsis, Nikolaos Taha, Ahmad Taylor, Joshua	The Univ. of Texas at San Antonio The Univ. of Texas at San Antonio Univ. of Texas at San Antonio Univ. of Toronto
13:50-14:10	TuB18.2		TuB19.2
<i>Numerical Verification of Equilibrium Location Bounds and Local Stability for Nonlinear Systems with Parameter Uncertainty</i> , pp. 4072-4077.		<i>Optimal Power Dispatch in Networks of High-Dimensional Models of Synchronous Machines</i> , pp. 4110-4115.	
Spetzler, Max Narang-Siddarth, Anshu	Univ. of Washington Univ. of Washington	Stegink, Tjerk De Persis, Claudio van der Schaft, Arjan	Univ. of Groningen Univ. of Groningen Univ. of Groningen
14:10-14:30	TuB18.3		TuB19.3
<i>Robust Stabilization of Nonminimum-Phase Systems with Uncertainty by Sampled-Data Output Feedback</i> , pp. 4078-4083.		<i>Nonlinear Analysis of an Improved Swing Equation</i> , pp. 4116-4121.	
Lin, Wei Wei, Wei	Case Western Res. Univ Harbin Inst. of Tech. Shenzhen Graduate School	Monshizadeh, Pooya De Persis, Claudio Monshizadeh, Nima van der Schaft, Arjan	Univ. of Groningen Univ. of Groningen Univ. of Groningen Univ. of Groningen
14:30-14:50	TuB18.4		TuB19.4
<i>MinGen: Minimal Generator Set Selection for Small Signal Stability in Power Systems: A Submodular Framework</i> , pp. 4122-4129.		<i>Li, Zhipeng Clark, Andrew Lee, Phillip Bushnell, Linda Kirschen, Daniel Poovendran, Radha</i>	Univ. of Washington Worcester Pol. Inst Univ. of Washington Univ. of Washington Univ. of Washington Univ. of Washington, Seattle

14:50-15:10	TuB19.5
<i>Almost Global Attractivity of a Synchronous Generator Connected to an Infinite Bus</i> , pp. 4130-4135.	
Barabanov, Nikita	North Dakota State Univ
Schiffer, Johannes	Univ. of Leeds
Ortega, Romeo	LSS-SUPELEC
Efimov, Denis	Inria
15:10-15:30	TuB19.6
<i>Stability Analysis of Power Systems with Photovoltaic Generators</i> , pp. 4136-4141.	
Izumi, Shinsaku	Okayama Prefectural Univ
Karakawa, Yuya	Okayama Prefectural Univ
Xin, Xin	Okayama Prefectural Univ
Yamasaki, Taiga	Okayama Prefectural Univ
<b>TuB20</b>	Coppearleaf 1
<b>Aerospace Systems (Regular Session)</b>	
Chair: Ghosh, Satadal	Naval Postgraduate School
Co-Chair: Milam, Mark	Northrop Grumman Aerospace Systems
13:30-13:50	TuB20.1
<i>A Guidance Law for Avoiding Specific Approach Angles against Maneuvering Targets</i> , pp. 4142-4147.	
Ghosh, Satadal	Naval Postgraduate School
Davis, Duane	Naval Postgraduate School
Chung, Timothy H.	DARPA
13:50-14:10	TuB20.2
<i>A Novel Guidance Law with Input Saturation</i> , pp. 4148-4153.	
Pattanaik, Anay	Univ. of Illinois, Urbana Champaign
Kothari, Mangal	Indian Inst. of Tech. Kanpur
14:10-14:30	TuB20.3
<i>Global Exponential Angular Velocity Observer for Rigid Body Systems</i> , pp. 4154-4159.	
Berkane, Soulaime	Western Univ
Abdessameud, Abdelkader	Univ. of Western Ontario
Tayebi, Abdelhamid	Lakehead Univ
14:30-14:50	TuB20.4
<i>Impact Time Control Guidance Considering Seeker's Field-Of-View Limits</i> , pp. 4160-4165.	
Kim, Hyeonggeun	Seoul National Univ
Kim, H. Jin	Seoul National Univ
14:50-15:10	TuB20.5
<i>Robust Acceleration Control of a Hexarotor UAV with a Disturbance Observer</i> , pp. 4166-4171.	
Lee, Seung Jae	Seoul National Univ
Suseong, Kim	Seoul National Univ
Kim, H. Jin	Seoul National Univ
Johansson, Karl H.	Royal Inst. of Tech
15:10-15:30	TuB20.6
<i>Trajectory Generation for Constrained Differentially Flat Systems with Time and Frequency Domain Objectives</i> , pp. 4172-4177.	
Tsuei, Stephanie	Northrop Grumman Aerospace Systems
Milam, Mark	Northrop Grumman Aerospace Systems

<b>TuB21</b>	Coppearleaf 2
<b>Biological Systems (Regular Session)</b>	
Chair: Preciado, Victor M.	Univ. of Pennsylvania
Co-Chair: Bleris, Leonidas	Univ. of Texas at Dallas
13:30-13:50	TuB21.1
<i>Dynamic Analysis of Bet-Hedging Strategies As a Protection Mechanism against Environmental Fluctuations</i> , pp. 4178-4183.	
Ogura, Masaki	Univ. of Pennsylvania
Wakaiki, Masashi	Chiba Univ
Preciado, Victor M.	Univ. of Pennsylvania
13:50-14:10	TuB21.2
<i>Controlling the Ribosomal Density Profile in Mrna Translation</i> , pp. 4184-4189.	
Zarai, Yoram	Tel Aviv Univ
Margaliot, Michael	Tel Aviv Univ
Sontag, Eduardo D.	Rutgers Univ
Tuller, Tamir	School of Elec. Eng., Tel Aviv Univ
14:10-14:30	TuB21.3
<i>On Brain Modeling in Resting-State As a Network of Coupled Oscillators</i> , pp. 4190-4195.	
Favaretto, Chiara	Department of Information Engineering, Univ. of Padova
Cenedese, Angelo	Univ. of Padova
14:30-14:50	TuB21.4
<i>A Numerical Approach to the Optimal Control and Efficiency of the Copepod Swimmer</i> , pp. 4196-4201.	
Chyba, Monique	Univ. of Hawaii
Bonnard, Bernard	Inst. De Mathématiques De Bourgogne
Rouot, Jérémie	INRIA Sophia Antipolis
Takagi, Daisuke	Univ. of Hawaii
14:50-15:10	TuB21.5
<i>Pattern Synthesis in a 3D Agent-Based Model of Stem Cell Differentiation</i> , pp. 4202-4207.	
Briers, Demarcus	Boston Univ
Haghghi, Iman	Boston Univ
White, Douglas	Georgia Inst. of Tech
Kemp, Melissa	Georgia Inst. of Tech
Belta, Calin	Boston Univ
15:10-15:30	TuB21.6
<i>Point-Based Value Iteration for Partially-Observed Boolean Dynamical Systems with Finite Observation Space</i> , pp. 4208-4213.	
Imani, Mahdi	Texas A&M Univ
Braga-Neto, Ulisses	Texas A&M Univ
<b>TuB22</b>	Coppearleaf 3
<b>Energy Systems (Regular Session)</b>	
Chair: Dominguez-Garcia, Alejandro D.	Univ. of Illinois at Urbana-Champaign
Co-Chair: Roozbehani, Mardavij	Massachusetts Inst. of Tech
13:30-13:50	TuB22.1
<i>Exploiting Phase Cohesiveness for Frequency Control of Islanded Inverter-Based Microgrids</i> , pp. 4214-4219.	
Zholbaryssov, Madi	Univ. of Illinois at Urbana-

Dominguez-Garcia, Alejandro D.	Champaign	
13:50-14:10	TuB22.2	
<i>Battery Capacity of Deferrable Energy Demand</i> , pp. 4220-4225.		
Madjidian, Daria	Massachusetts Inst. of Tech	
Roozbehani, Mardavij	Massachusetts Inst. of Tech	
Dahleh, Munther A.	Massachusetts Inst. of Tech	
14:10-14:30	TuB22.3	
<i>Cooperative Management of a Lithium-Ion Battery Energy Storage Network: A Distributed MPC Approach</i> , pp. 4226-4232.		
Fang, Huazhen	Univ. of Kansas	
Wu, Di	Pacific Northwest National Lab	
Yang, Tao	Univ. of North Texas	
14:30-14:50	TuB22.4	
<i>An Outer Approximation of the Minkowski Sum of Convex Conic Sets with Application to Demand Response</i> , pp. 4233-4238.		
Barot, Suhail	Univ. of Toronto	
Taylor, Joshua	Univ. of Toronto	
14:50-15:10	TuB22.5	
<i>Spatio-Temporal Optimization through Model Predictive Control: A Case Study in Airborne Wind Energy</i> , pp. 4239-4244.		
Bin-Karim, Shamir	Univ. of North Carolina at Charlotte	
Bafandeh, Alireza	Univ. of North Carolina at Charlotte	
Vermillion, Christopher	Univ. of North Carolina at Charlotte	
15:10-15:30	TuB22.6	
<i>Optimal Operation of Energy Storage with Random Renewable Generation and AC/DC Loads</i> , pp. 4245-4251.		
Jin, Jiangliang	Singapore Univ. of Tech. and Design	
Xu, Yunjian	Singapore Univ. of Tech. and Design	
Khalid, Yawar	Singapore Univ. of Tech. and Design	
Ul Hassan, Naveed	Lahore Univ. of Management Sciences	
<b>TuB23</b>	Ironwood 5	
<b>Differential Privacy in Control and Network Systems (Tutorial Session)</b>		
Chair: Cortes, Jorge	Univ. of California, San Diego	
Co-Chair: Pappas, George J.	Univ. of Pennsylvania	
Organizer: Cortes, Jorge	Univ. of California, San Diego	
13:30-13:35	TuB23.1	
<i>Differential Privacy in Control and Network Systems (I)</i> , pp. 4252-4272.		
Cortes, Jorge	Univ. of California, San Diego	
Dullerud, Geir E.	Univ. of Illinois, Urbana-Champaign	
Han, Shuo	Univ. of Pennsylvania	
Le Ny, Jerome	Pol. Montreal	
Mitra, Sayan	Univ. of Illinois	
Pappas, George J.	Univ. of Pennsylvania	
13:35-14:00	TuB23.2	
<i>Foundations of Differential Privacy (I)*.</i>		
Pappas, George J.	Univ. of Pennsylvania	
14:00-14:30	TuB23.3	
<i>Differential Privacy Filtering (I)*.</i>		
Le Ny, Jerome	Pol. Montreal	
14:30-15:00	TuB23.4	
<i>Differential Privacy, Entropy, and Consensus (I)*.</i>		
Dullerud, Geir E.	Univ. of Illinois, Urbana-Champaign	
15:00-15:30	TuB23.5	
<i>Differential Privacy and Distributed Optimization (I)*.</i>		
Cortes, Jorge	Univ. of California, San Diego	
<b>TuC01</b>	Starvine 1	
<b>Networked Control Systems II (Regular Session)</b>		
Chair: El-Farra, Nael H.	Univ. of California, Davis	
Co-Chair: Gharesifard, Bahman	Queens Univ. Canada	
16:00-16:20	TuC01.1	
<i>Distributed Hybrid Consensus of Second-Order Dynamics Over Proximity Nets</i> , pp. 4273-4277.		
Liu, Zhixin	Acad. of Mathematics and Systems Science, Chinese Academy of Sciences	
Wang, Lin	Shanghai Jiao Tong Univ	
Baras, John S.	Univ. of Maryland	
16:20-16:40	TuC01.2	
<i>Sparse Feedback Stabilization of Multi-Agent Dynamics (I)</i> , pp. 4278-4283.		
Caponigro, Marco	Conservatoire National Des Arts Et Métiers	
Piccoli, Benedetto	Rutgers Univ. - Camden	
Rossi, Francesco	Aix-Marseille Univ	
Trelat, Emmanuel	Univ. Pierre Et Marie Curie (Paris 6)	
16:40-17:00	TuC01.3	
<i>Feedforward Estimators for the Distributed Average Tracking of Bandlimited Signals in Discrete Time with Switching Graph Topology</i> , pp. 4284-4289.		
Van Scyoc, Bryan	Northwestern Univ	
Freeman, Randy	Northwestern Univ	
Lynch, Kevin M.	Northwestern Univ	
17:00-17:20	TuC01.4	
<i>Distributed Power Sharing Control of Grid-Connected AC Microgrid</i> , pp. 4290-4295.		
Cai, He	Nanyang Tech. Univ	
Hu, Guoqiang	Nanyang Tech. Univ	
17:20-17:40	TuC01.5	
<i>Output Feedback-Based Event-Triggered Control of Distributed Processes with Communication Constraints (I)</i> , pp. 4296-4301.		
Xue, Da	Univ. of California, Davis	
El-Farra, Nael H.	Univ. of California, Davis	
17:40-18:00	TuC01.6	
<i>A Subspace Consensus Approach for Distributed Connectivity Assessment of Asymmetric Networks</i> , pp. 4302-4307.		
Asadi, Mohammad Mehdi	Concordia Univ	

Khosravi, Mohammad Blouin, Stephane Aghdam, Amir G.	Concordia Univ DRDC Atlantic Concordia Univ	16:00-16:20	TuC03.1
<b>TuC02</b>	Starvine 2		
<b>Advances in Cooperative Control of Networked Systems</b> (Invited Session)			
Chair: Cao, Yongcan Co-Chair: Casbeer, David W. Organizer: Cao, Yongcan Organizer: Garcia, Eloy Organizer: Casbeer, David W.	Univ. of Texas, San Antonio Air Force Res. Lab Univ. of Texas, San Antonio Infoscitex Corp Air Force Res. Lab		
16:00-16:20	TuC02.1		
<i>Towards Cost-Effective Distributed Information Fusion with Partially Active Sensors in Directed Networks (I)</i> , pp. 4308-4313.			
Cao, Yongcan Casbeer, David W. Garcia, Eloy Zhang, Xiaodong	Univ. of Texas, San Antonio Air Force Res. Lab Infoscitex Corp Wright State Univ		
16:20-16:40	TuC02.2		
<i>Distributed Continuous-Time Online Optimization Using Saddle-Point Methods (I)</i> , pp. 4314-4319.			
Lee, Soomin Ribeiro, Alejandro Zavlanos, Michael M.	Georgia Inst. of Tech Univ. of Pennsylvania Duke Univ		
16:40-17:00	TuC02.3		
<i>Cooperative Localisation of UAVs in a GPS-Denied Environment Using Bearing Measurements (I)</i> , pp. 4320-4326.			
Zhang, Lvtianyang Ye, Mengbin (Ben) Anderson, Brian D.O. Sarunic, Peter William Hmam, Hatem	Australian National Univ Australian National Univ Australian National Univ Defence Science and Tech. Group Defence Science and Tech. Organisation		
17:00-17:20	TuC02.4		
<i>Cooperative Filtering for Parameter Identification of Diffusion Processes (I)</i> , pp. 4327-4333.			
You, Jie Zhang, Fumin Wu, Wencen	Rensselaer Pol. Inst Georgia Inst. of Tech Rensselaer Pol. Inst		
17:20-17:40	TuC02.5		
<i>Bio-Inspired Source Seeking: A Hybrid Speeding up and Slowing down Algorithm (I)</i> , pp. 4334-4339.			
Khan, Ayesha Mishra, Vivek Zhang, Fumin	Georgia Inst. of Tech Georgia Inst. of Tech Georgia Inst. of Tech		
17:40-18:00	TuC02.6		
<i>Optimal Distributed Control with Application to Asymmetric Vehicle Platoons</i> , pp. 4340-4345.			
Herman, Ivo Sebek, Michael	Czech Tech. Univ. in Prague Czech Tech. Univ. in Prague		
<b>TuC03</b>	Starvine 3		
<b>Control of Networks I</b> (Regular Session)			
Chair: Scardovi, Luca Co-Chair: Dong, Zhe	Univ. of Toronto Tsinghua Univ		
16:00-16:20	TuC03.2		
<i>Controllability Analysis of Networks through Their Topologies</i> , pp. 4346-4351.			
Mousavi, Shima Sadat Haeri, Mohammad	Sharif Univ. of Tech Sharif Univ. of Tech		
16:20-16:40	TuC03.3		
<i>A Passivity-Based Approach for Constrained Mobile Robotic Networks</i> , pp. 4352-4357.			
Nguyen, Tam Doi, Mamoru Hatanaka, Takeshi Garone, Emanuele Fujita, Masayuki	Univ. Libre De Bruxelles Tokyo Inst. of Tech Tokyo Inst. of Tech Univ. Libre De Bruxelles Tokyo Inst. of Tech		
16:40-17:00	TuC03.4		
<i>Formation Control of Teleoperating Cyber-Physical System Subject to Time Delay and Actuator Saturation Constrains</i> , pp. 4358-4363.			
Jing, Yan Wan, Yan Chen, Cailian Hua, Chang-Chun Guan, Xiping	Yanshan Univ Univ. of North Texas Shanghai Jiao Tong Univ Yanshan Univ Shanghai Jiao Tong Univ		
17:00-17:20	TuC03.5		
<i>Distributed Frequency Synchronization and Phase-Difference Tracking for Kuramoto Oscillators and Its Application to Islanded Microgrids</i> , pp. 4364-4369.			
Mao, Yanbing Zhang, Ziang	Binghamton Univ Binghamton Univ		
17:20-17:40	TuC03.6		
<i>Distributed Flowrate-Pressure Control of Fluid Flow Networks</i> , pp. 4370-4375.			
Dong, Zhe	Tsinghua Univ		
17:40-18:00	TuC04.1		
<i>Synchronization of Linear Time-Invariant Systems on Rooted Graphs</i> , pp. 4376-4381.			
Xia, Tian Scardovi, Luca	Univ. of Toronto Univ. of Toronto		
<b>TuC04</b>	Starvine 4		
<b>Communication Networks</b> (Regular Session)			
Chair: Melchor-Aguilar, Daniel Alejandro Co-Chair: Hadjicostis, Christoforos N.	IPICyT Univ. of Cyprus		
16:00-16:20	TuC04.2		
<i>Complete Stability Region of PD Controllers for TCP/AQM Networks</i> , pp. 4382-4387.			
Puerto-Piña, A. K. Melchor-Aguilar, Daniel Alejandro	Inst. Potosino De Investigación Científica Y Tecnológica (I) IPICyT		
16:20-16:40	TuC04.3		
<i>From Ideal to Packet-Based Communication for Spatially Invariant Systems with Various Interconnection Structures</i> , pp. 4388-4395.			
Heijmans, Stefan H. J. Heemels, W.P.M.H.	Eindhoven Univ. of Tech Eindhoven Univ. of Tech		
16:40-17:00	TuC04.4		

<i>Distributed C-Means Data Clustering Algorithm</i> , pp. 4396-4401.			
Oliva, Gabriele	Univ. Campus Bio-Medico of Rome		TuC05.5
Setola, Roberto	Univ. Campus Biomedico		
Hadjicostis, Christoforos N.	Univ. of Cyprus		
17:00-17:20		TuC04.4	
<i>Stochastic Worst Case Analysis of Window Flow Controlled Systems</i> , pp. 4402-4407.			
Beck, Michael Alexander	Univ. of Kaiserslautern		
17:20-17:40		TuC04.5	
<i>Optimal Distributed Scheduling of Real-Time Traffic with Hard Deadlines</i> , pp. 4408-4413.			
Lu, Ning	Thompson Rivers Univ		
Li, Bin	Univ. of Rhode Island		
Srikant, R	Univ. of Illinois, Urbana-Champaign		
Ying, Lei	Arizona State Univ		
17:40-18:00		TuC04.6	
<i>Distributed Asynchronous Cholesky Decomposition</i> , pp. 4414-4419.			
Oliva, Gabriele	Univ. Campus Bio-Medico of Rome		Kyoto Univ
Setola, Roberto	Univ. Campus Biomedico		
Hadjicostis, Christoforos N.	Univ. of Cyprus		Penn State Harrisburg
<b>TuC05</b>	Starvine 5		
<b>Game Theory for Large-Scale Systems and Complex Networks</b>			
(Invited Session)			
Chair: Grammatico, Sergio	Eindhoven Univ. of Tech		
Co-Chair: Alpcan, Tansu	The Univ. of Melbourne		
Organizer: Zhu, Quanyan	New York Univ		
Organizer: Hayel, Yezekael	Univ. of Avignon		
16:00-16:20		TuC05.1	
<i>Large-Scale Strategic Games and Adversarial Machine Learning (I)</i> , pp. 4420-4426.			
Alpcan, Tansu	The Univ. of Melbourne		
Rubinstein, Benjamin	The Univ. of Melbourne		
Leckie, Christopher Andrew	The Univ. of Melbourne		
16:20-16:40		TuC05.2	
<i>A Saturated Strategy Robustly Ensures Stability of the Cooperative Equilibrium for Prisoner&amp;apos;s Dilemma (I)</i> , pp. 4427-4432.			
Giordano, Giulia	Lund Univ		
Bauso, Dario	The Univ. of Sheffield		
Blanchini, Franco	Univ. Degli Studi Di Udine		
16:40-17:00		TuC05.3	
<i>Convergence of Approximate Best-Response Dynamics in Interference Games</i> , pp. 4433-4438.			
Bistritz, Ilai	Tel-Aviv Univ		
Leshem, Amir	Bar-Ilan Univ		
17:00-17:20		TuC05.4	
<i>A Random Tree Search Algorithm for Nash Equilibrium in Capacitated Selfish Replication Games (I)</i> , pp. 4439-4444.			
Ahmadyan, Seyed Nematollah	Univ. of Illinois at Urbana-Champaign		
Etesami, Seyed Rasoul	Univ. of Illinois at Urbana-Champaign		
Poor, H. Vincent	Princeton Univ		
17:20-17:40		TuC05.5	
<i>Aggregative Control of Large Populations of Noncooperative Agents</i> , pp. 4445-4450.			
Grammatico, Sergio	Eindhoven Univ. of Tech		
17:40-18:00		TuC05.6	
<i>Conformity versus Manipulation in Reputation Systems (I)</i> , pp. 4451-4456.			
Etesami, Seyed Rasoul	Univ. of Illinois at Urbana-Champaign		
Bolouki, Sadegh	Univ. of Illinois, Urbana-Champaign		
Nedich, Angelia	Arizona State Univ		
Basar, Tamer	Univ. of Illinois, Urbana-Champaign		
<b>TuC06</b>	Starvine 6		
<b>Optimal Control VI (Regular Session)</b>			
Chair: Fujimoto, Kenji	Kyoto Univ		
Co-Chair: Shvartsman, Ilya	Penn State Harrisburg		
16:00-16:20		TuC06.1	
<i>Efficient Implementation of Partial Condensing for Nonlinear Model Predictive Control</i> , pp. 4457-4462.			
Frison, Gianluca	Tech. Univ. of Denmark		
Kouzoupis, Dimitris	Univ. of Freiburg		
Jorgensen, John Bagterp	Tech. Univ. of Denmark		
Diehl, Moritz	Univ. of Freiburg		
16:20-16:40		TuC06.2	
<i>Using Optimal Control to Obtain Maximum Displacement Gait for Purcell's Three-Link Swimmer</i> , pp. 4463-4468.			
Wiezel, Oren	Tech. Israel Institute for Tech		
Or, Yizhar	Tech. - Israel Inst. of Tech		
16:40-17:00		TuC06.3	
<i>A Study on Robust Nonlinear Optimal Control for Parameter Variation</i> , pp. 4469-4473.			
Okura, Yuki	Kyoto Univ		
Fujimoto, Kenji	Kyoto Univ		
17:00-17:20		TuC06.4	
<i>Optimal Control for Mean-Field System: Discrete-Time Case</i> , pp. 4474-4480.			
Zhang, Huanshui	Shandong Univ		
Qi, Qingyuan	Shandong Univ		
17:20-17:40		TuC06.5	
<i>Linear Programming Formulation of a Discrete Time Infinite Horizon Optimal Control Problem with Time Discounting Criterion</i> , pp. 4481-4483.			
Gaitsgory, Vladimir	Macquarie Univ		
Parkinson, Alex	Macquarie Univ		
Shvartsman, Ilya	Penn State Harrisburg		
17:40-18:00		TuC06.6	
<i>On Near-Controllability of Discrete-Time Bilinear Systems Using a Minimum-Time Control</i> , pp. 4484-4489.			
Tie, Lin	Beihang Univ. (Beijing Univ. of Aeronautics and Astron		
<b>TuC07</b>	Starvine 7		
<b>Stochastic Optimization Methods</b> (Invited Session)			

Chair: Nedich, Angelia	Univ. of Illinois, Urbana-Champaign	Gomes, Diogo	King Abdullah Univ. of Science and Tech
Co-Chair: Yousefian, Farzad	Pennsylvania State Univ	Nurbekyan, Levon	King Abdullah Univ. of Science and Tech
Organizer: Nedich, Angelia	Arizona State Univ	Prazeres, Mariana	King Abdullah Univ. of Science and Tech
Organizer: Yousefian, Farzad	Pennsylvania State Univ		
Organizer: Shanbhag, Uday V.	Pennsylvania State Univ		
16:00-16:20	TuC07.1		
<i>A Stochastic Proximal Point Algorithm for Total Variation Regularization Over Large Scale Graphs (I), pp. 4490-4495.</i>			
Salim, Adil	LTCI, CNRS, Télécom ParisTech, Univ. Paris-Saclay, 75013	Borri, Alessandro	IASI-CNR
Bianchi, Pascal	Telecom ParisTech - CNRS/LTCI	Caravetta, Francesco	IASI-CNR
Hachem, Walid	CNRS LTCI; Telecom ParisTech	Palumbo, Pasquale	IASI-CNR
Jakubowicz, Jérémie	Telecom SudParis - CNRS		
16:20-16:40	TuC07.2		
<i>Stochastic Quasi-Newton Methods for Non-Strongly Convex Problems: Convergence and Rate Analysis (I), pp. 4496-4503.</i>			
Yousefian, Farzad	Pennsylvania State Univ	Ahmadi, Mohamadreza	Univ. of Oxford
Nedich, Angelia	Univ. of Illinois, Urbana-Champaign	Papachristodoulou, Antonis	Univ. of Oxford
Shanbhag, Uday V.	Pennsylvania State Univ		
16:40-17:00	TuC07.3		
<i>A Dynamical Systems Framework for Stochastic Iterative Optimization (I), pp. 4504-4509.</i>			
Haskell, William B.	National Univ. of Singapore	Grivopoulos, Symeon	Univ. of New South Wales, Canberra
Jain, Rahul	Univ. of Southern California	Nurdin, Hendra I	UNSW Australia
Sharma, Hiteshi	Univ. of Southern California	Petersen, Ian R.	Univ. of New South Wales at the AustralianDefenceForceAcad
17:00-17:20	TuC07.4		
<i>On the Analysis of Reflected Gradient and Splitting Methods for Monotone Stochastic Variational Inequality Problems (I), pp. 4510-4515.</i>			
Cui, Shisheng	The Pennsylvania State Univ	Azouit, Rémi	Mines ParisTech
Shanbhag, Uday V.	Pennsylvania State Univ	Sarlette, Alain	INRIA Rocquencourt
		Rouchon, Pierre	Mines ParisTech
17:20-17:40	TuC07.5		
<i>An Online Primal-Dual Method for Discounted Markovian Decision Process (I), pp. 4516-4521.</i>			
Wang, Mengdi	Princeton Univ	Xu, Tingting	Boston Univ
Chen, Yichen	Princeton Univ	Brisimi, Theodora	Boston Univ
		WANG, TAIYAO	Boston Univ
17:40-18:00	TuC07.6	Dai, Wuyang	Adobe Systems
<i>Tracking Capability of Stochastic Gradient Algorithm with Constant Gain (I), pp. 4522-4527.</i>			
Zhu, Jingyi	Johns Hopkins Univ	Paschalidis, Ioannis Ch.	Boston Univ
Spall, James C.	Johns Hopkins Univ		
<b>TuC08</b>	Starvine 8		
<b>Stochastic Systems III (Regular Session)</b>			
Chair: Nurdin, Hendra I	UNSW Australia		
Co-Chair: Ahmadi, Mohamadreza	Univ. of Oxford		
16:00-16:20	TuC08.1		
<i>Mean Field Games for Stochastic Growth with Relative Consumption, pp. 4528-4533.</i>			
Huang, Minyi	Carleton Univ	Carli, Francesca Paola	Univ. of Cambridge
Nguyen, Son	Univ. of Puerto Rico, Rio Piedras		
16:20-16:40	TuC08.2		
<i>Explicit Solutions of One-Dimensional, First-Order, Stationary Mean-Field Games with Congestion, pp. 4534-4539.</i>			
<b>TuC09</b>	Starvine 9		
<b>Machine Learning (Regular Session)</b>			
Chair: Carli, Francesca Paola	Univ. of Cambridge		
Co-Chair: Farahmand, Amir-massoud	Mitsubishi Electric Res. Labs (MERL)		
16:00-16:20	TuC09.1		
<i>A Joint Sparse Clustering and Classification Approach with Applications to Hospitalization Prediction, pp. 4566-4571.</i>			
Xu, Tingting	Boston Univ		
Brisimi, Theodora	Boston Univ		
WANG, TAIYAO	Boston Univ		
Dai, Wuyang	Adobe Systems		
Paschalidis, Ioannis Ch.	Boston Univ		
16:20-16:40	TuC09.2		
<i>On the Geometry of Message Passing Algorithms for Gaussian Reciprocal Processes, pp. 4572-4577.</i>			
Carli, Francesca Paola	Univ. of Cambridge		
16:40-17:00	TuC09.3		
<i>Learning to Control Partial Differential Equations: Regularized Fitted Q-Iteration Approach, pp. 4578-4585.</i>			
Farahmand, Amir-massoud	Mitsubishi Electric Res. Labs (MERL)		
Nabi, Saleh	Mitsubishi Electric Res. Lab. (MERL)		
Grover, Piyush	Mitsubishi Electric Res. Lab		

Nikovski, Daniel	Mitsubishi Electric Res. Labs	The Univ. of Sydney Univ. of Sydney
17:00-17:20	TuC09.4	
<i>Active Learning Based Requirement Mining for Cyber-Physical Systems</i> , pp. 4586-4593.		
Chen, Gang	Univ. of California, Davis	
Sabato, Zachary	Department of Mechanical and Aerospace Engineering, UC Davis	Kyoto Univ Kyoto Univ
Kong, Zhaodan	Univ. of California, Davis	
17:20-17:40	TuC09.5	
<i>Machine Learning Meets Kalman Filtering</i> , pp. 4594-4599.		
Carron, Andrea	Univ. of Padova	
Todescato, Marco	Univ. of Padova	Univ. of Toronto
Carli, Ruggero	Univ. of Padova	TU Delft
Schenato, Luca	Univ. of Padova	Univ. of Toronto
Pillonetto, Gianluigi	Univ. of Padova	Max Planck Inst. for Intelligent Systems
17:40-18:00	TuC09.6	
<i>Characterization of L1-Norm Statistic for Anomaly Detection in Erdos-Renyi Graphs</i> , pp. 4600-4605.		
Kadavankandy, Arun	INRIA	ETH Zurich
Cottatellucci, Laura	Eurecom	
Avrachenkov, Konstantin E.	INRIA Sophia Antipolis	Univ. of Toronto Univ. of Toronto
<b>TuC10</b>	Starvine 10	
<b>Dynamic Network Identification</b> (Invited Session)		
Chair: Dankers, Arne	Univ. of Calgary	
Co-Chair: Van den Hof, Paul M.J.	Eindhoven Univ. of Tech	
Organizer: Dankers, Arne	Univ. of Calgary	
Organizer: Van den Hof, Paul M.J.	Eindhoven Univ. of Tech	
16:00-16:20	TuC10.1	
<i>Identification of Dynamic Networks Operating in the Presence of Algebraic Loops</i> (I), pp. 4606-4611.		
Weerts, Harm H. M.	Eindhoven Univ. of Tech	
Van den Hof, Paul M.J.	Eindhoven Univ. of Tech	
Dankers, Arne	Univ. of Calgary	
16:20-16:40	TuC10.2	
<i>Identification of Modules in Dynamic Networks: An Empirical Bayes Approach</i> (I), pp. 4612-4617.		
Everitt, Niklas	KTH	
Bottegal, Giulio	Ku Leuven	
Rojas, Cristian R.	KTH Royal Inst. of Tech	
Hjalmarsson, Håkan	KTH Royal Inst. of Tech	
16:40-17:00	TuC10.3	
<i>Inferring the Structure of Polytree Networks of Dynamic Systems with Hidden Nodes</i> (I), pp. 4618-4623.		
Sepehr, Firoozeh	Univ. of Tennessee Knoxville	
Materassi, Donatello	Univ. of Tennessee, Knoxville	
17:00-17:20	TuC10.4	
<i>Topology Identification of Undirected Consensus Networks Via Sparse Inverse Covariance Estimation</i> , pp. 4624-4629.		
Hassan Moghaddam, Sepideh	Univ. of Minnesota	
Dhingra, Neil K	Univ. of Minnesota	
Jovanovic, Mihailo	Univ. of Minnesota	
17:20-17:40	TuC10.5	
<i>Scalable Identification of Stable Positive Systems</i> , pp. 4630-4635.		
Umenberger, Jack		
Manchester, Ian R.		
17:40-18:00	TuC10.6	
<i>Informative Input Design for Kernel-Based System Identification</i> , pp. 4636-4639.		
Fujimoto, Yusuke		
Sugie, Toshiharu		
<b>TuC11</b>	Starvine 11	
<b>Learning-Based Control</b> (Invited Session)		
Chair: Schoellig, Angela P	Univ. of Toronto	
Co-Chair: Kober, Jens	TU Delft	
Organizer: Schoellig, Angela P	Univ. of Toronto	
Organizer: Trimpe, Sebastian	Max Planck Inst. for Intelligent Systems	
Organizer: Zeilinger, Melanie N.	ETH Zurich	
16:00-16:20	TuC11.1	
<i>Distributed Iterative Learning Control for a Team of Quadrotors</i> (I), pp. 4640-4646.		
Hock, Andreas	Univ. of Toronto	
Schoellig, Angela P	Univ. of Toronto	
16:20-16:40	TuC11.2	
<i>Continuous-Time DC Kernel — a Stable Generalized First Order Spline Kernel</i> (I), pp. 4647-4652.		
Chen, Tianshi	Linköping Univ. Sweden	
Pillonetto, Gianluigi	Univ. of Padova	
Chiuso, Alessandro	Univ. Di Padova	
Ljung, Lennart	Linkoping Univ	
16:40-17:00	TuC11.3	
<i>Learning Quadrotor Dynamics Using Neural Network for Flight Control</i> (I), pp. 4653-4660.		
Bansal, Somil	UC Berkeley	
Akametalu, Anayo K.	UC Berkeley	
Tomlin, Claire J.	UC Berkeley	
Laine, Forrest J.	Univ. of California, Berkeley	
17:00-17:20	TuC11.4	
<i>Safe Learning of Regions of Attraction for Uncertain, Nonlinear Systems with Gaussian Processes</i> (I), pp. 4661-4666.		
Berkenkamp, Felix	ETH Zurich	
Moriconi, Riccardo	ETH Zurich	
Schoellig, Angela P	Univ. of Toronto	
Krause, Andreas	ETH Zurich	
17:20-17:40	TuC11.5	
<i>Learning State Representation for Deep Actor-Critic Control</i> (I), pp. 4667-4673.		
Munk, Jelle	Delft Univ. of Tech	
Kober, Jens	Delft Univ. of Tech	
Babuska, R.	Delft Univ. of Tech	
17:40-18:00	TuC11.6	
<i>Relaxation of the EM Algorithm Via Quantum Annealing for Gaussian Mixture Models</i> , pp. 4674-4679.		
Miyahara, Hideyuki	The Univ. of Tokyo	
Tsumura, Koji	The Univ. of Tokyo	
Sugiyama, Yuki	Inst. of Industrial Science, the Univ. of Tokyo	

<b>TuC12</b>	Starvine 12	<i>Uncertain Systems</i> , pp. 4728-4733.	
<b>Algebraic and Geometric Methods II</b> (Regular Session)			
Chair: Violet, Grey	Univ. of Konstanz	Wang, Yang Imperial Coll. London	
Co-Chair: van der Schaft, Arjan	Univ. of Groningen	Pin, Gilberto Electrolux Professional S.p.A. (Italy)	
16:00-16:20	TuC12.1	Serrani, Andrea The Ohio State Univ	
<i>Singularly Perturbed Phase Response Curves for Relaxation Oscillators</i> , pp. 4680-4685.			
Sacr�, Pierre	Johns Hopkins Univ	Parisini, Thomas Imperial Coll. & Univ. of Trieste	
Franci, Alessio	Univ. Nacional Aut�noma De Mexico (UNAM)		
16:20-16:40	TuC12.2		
<i>Interconnections of Input-Output Hamiltonian Systems with Dissipation</i> , pp. 4686-4691.			
van der Schaft, Arjan	Univ. of Groningen		
16:40-17:00	TuC12.3		
<i>Nonintegrable Discrete-Time Driftless Control Systems: Geometric Phases Beyond the Area Rule</i> , pp. 4692-4697.			
Altafini, Claudio	Linkoping Univ	De Marco, Simone Univ. of Bologna	
Bohn, Jan	Raytheon	Marconi, Lorenzo Univ. Di Bologna	
Sanyal, Amit	Syracuse Univ	Hamel, Tarek Univ. De Nice Sophia Antipolis	
Butcher, Eric	Univ. of Arizona	Mahony, Robert Australian National Univ	
17:00-17:20	TuC12.4		
<i>Unscented State Estimation for Rigid Body Attitude Motion with a Finite-Time Stable Observer</i> , pp. 4698-4703.			
Violet, Grey	Univ. of Konstanz	17:20-17:40	TuC13.4
Zhou, Junqiang	OSU	Bin, Michelangelo Univ. of Bologna	
Serrani, Andrea	The Ohio State Univ	Astolfi, Daniele Univ. Alma Mater of Bologna	
17:20-17:40	TuC12.5	Marconi, Lorenzo Univ. Di Bologna	
<i>The Topology of \$D\$-Stability</i> , pp. 4704-4709.			
17:40-18:00	TuC12.6	17:40-18:00	TuC13.5
<i>The Disturbance Decoupling Problem for Switched Discrete-Time Linear Systems Over Digraphs: A Stratified Geometric Approach</i> , pp. 4710-4715.			
Zhou, Junqiang	OSU	Abdessameud, Abdelkader Univ. of Western Ontario	
Serrani, Andrea	The Ohio State Univ	Tayebi, Abdelhamid Lakehead Univ	
16:00-16:20	TuC13.1		
<b>TuC13</b> <i>Output Regulation</i> (Regular Session) Starvine 13			
Chair: Sundaram, Shreyas	Purdue Univ	<b>TuC14</b>	Ironwood 1
Co-Chair: Marconi, Lorenzo	Univ. Di Bologna	<b>Supervisory Control</b> (Regular Session)	
16:00-16:20	TuC13.2	Chair: Cai, Kai Osaka City Univ	
<i>Data-Driven Output Regulation by External Models of Linear Hybrid Systems with Periodic Jumps</i> , pp. 4716-4721.			
Carnevale, Daniele	Univ. Di Roma	Co-Chair: Hill, Rick Univ. of Detroit Mercy	
Galeani, Sergio	Univ. Di Roma Tor Vergata	16:00-16:20	TuC14.1
Sassano, Mario	Univ. of Rome, Tor Vergata	<i>Supervisor Localization of Timed Discrete-Event Systems under Partial Observation</i> , pp. 4752-4757.	
16:20-16:40	TuC13.3	Zhang, Renyuan Northwestern Pol. Univ	
<i>Sampling-Based Explicit Nonlinear Model Predictive Control for Output Tracking</i> , pp. 4722-4727.			
Zhang, Haotian	Univ. of Waterloo	Cai, Kai Osaka City Univ	
Chakrabarty, Ankush	Harvard Univ	16:20-16:40	TuC14.2
Ayoub, Raid	Strategic CAD Labs, Intel Corp	Najafi, Esmaeil Eindhoven Univ. of Tech. Delft	
Buzzard, Gregory T.	Purdue Univ	Lopes, Gabriel A. D. Delft Univ. of Tech	
Sundaram, Shreyas	Purdue Univ	16:40-17:00	TuC14.3
16:40-17:00	TuC13.4	<i>Towards Cooperative Sequential Composition Control</i> , pp. 4758-4763.	
<i>Removing SPR-Like Conditions in Adaptive Feedforward Control of</i>			
Zhang, Haotian	Univ. of Waterloo	Ciolek, Daniel Alfredo Univ. De Buenos Aires	
Chakrabarty, Ankush	Harvard Univ	Braberman, Victor Univ. De Buenos Aires	
Ayoub, Raid	Strategic CAD Labs, Intel Corp	D'Ippolito, Nicol�s Univ. De Buenos Aires	
Buzzard, Gregory T.	Purdue Univ	Uchitel, Sebasti�n Univ. De Buenos Aires	
Sundaram, Shreyas	Purdue Univ	17:00-17:20	TuC14.4
17:00-17:20		<i>Planning under Abstraction within a Supervisory Control Context</i> , pp. 4770-4777.	
Hill, Rick	Univ. of Detroit Mercy	Hill, Rick Univ. of Michigan	
Lafortune, Stephane	Univ. of Michigan	17:20-17:40	TuC14.5
<i>Robust Control of Mono-T-Semiflow Processes with Resources Using Petri Nets</i> , pp. 4778-4784.			
Du, Nan	Xidian Univ		

Hu, Hesuan	Xidian Univ		
17:40-18:00	TuC14.6		
<i>Robust Control of Automated Manufacturing Systems with Flexible Routes and Assembly Operations Using Petri Nets</i> , pp. 4785-4790.			
Du, Nan	Xidian Univ		
Hu, Hesuan	Xidian Univ		
<b>TuC15</b>	Ironwood 2		
<b>Distributed Parameter Systems II</b> (Regular Session)			
Chair: Fridman, Emilia	Tel-Aviv Univ		
Co-Chair: Dubljevic, Stevan	Univ. of Alberta		
16:00-16:20	TuC15.1		
<i>Deformation Control of an Euler-Bernoulli Beam Based on Zero-Dynamics Inverse Design and Flatness</i> , pp. 4791-4796.			
Yang, Kajun	Pol. Montreal		
Zheng, Jun	Southwest Jiaotong Univ		
Zhu, Guchuan	Ec. Pol. De Montreal		
16:20-16:40	TuC15.2		
<i>Vibration Suppression of the Finite-Dimensional Approximation of the Non-Uniform SCOLE Model Using Multiple Tuned Mass Dampers</i> , pp. 4797-4802.			
Tong, Xin	Univ. of Warwick		
Zhao, Xiaowei	Univ. of Warwick		
16:40-17:00	TuC15.3		
<i>Null Boundary Controllability of a 1-Dimensional Heat Equation with an Internal Point Mass</i> , pp. 4803-4808.			
Hansen, Scott	Iowa State Univ		
Martinez, Jose de Jesus	Mercy Coll. of Health Sciences		
17:00-17:20	TuC15.4		
<i>Coupled Actuator Placement and Controller Design for Electromagnetic Heating by Means of Dynamic Optimization</i> , pp. 4809-4814.			
Rhein, Sönke	Univ. of Ulm		
Graichen, Knut	Univ. of Ulm		
17:20-17:40	TuC15.5		
<i>Model Predictive Control of Coupled Hyperbolic PDEs and ODEs</i> , pp. 4815-4820.			
Xu, Qingqing	Univ. of Alberta		
Dubljevic, Stevan	Univ. of Alberta		
17:40-18:00	TuC15.6		
<i>Sampled-Data Relay Control of Semilinear Diffusion PDEs (I)</i> , pp. 4821-4826.			
Selivanov, Anton	Tel Aviv Univ		
Fridman, Emilia	Tel-Aviv Univ		
<b>TuC16</b>	Ironwood 3		
<b>Quantized Systems</b> (Regular Session)			
Chair: Tarraf, Danielle C.	Massachusetts Inst. of Tech		
Co-Chair: Ling, Qiang	Univ. of Science and Tech. of China		
16:00-16:20	TuC16.1		
<i>Distributed Averaging with Quantized Communication Over Dynamic Graphs</i> , pp. 4827-4832.			
El Chamie, Mahmoud	Univ. of Washington		
Liu, Ji	Univ. of Illinois at Urbana-Champaign		
Basar, Tamer	Univ. of Illinois, Urbana-Champaign		
Acikmese, Behcet	Univ. of Washington		
16:20-16:40	TuC16.2		
<i>Structural Bistability Analysis of Boolean Networks</i> , pp. 4833-4836.			
Azuma, Shun-ichi	Kyoto Univ		
Kure, Toshimitsu	Kyoto Univ		
Sugie, Toshiharu	Kyoto Univ		
16:40-17:00	TuC16.3		
<i>A Finite State Output-Feedback Controller for Constrained Linear Systems with Quantized Output</i> , pp. 4837-4842.			
Fan, Donglei	Hughes Network Systems		
Tarraf, Danielle C.	Massachusetts Inst. of Tech		
17:00-17:20	TuC16.4		
<i>Quantized Control of Nonlinear Quadratic Discrete-Time Systems</i> , pp. 4843-4848.			
Maestrelli, Rafael	UFSC		
Coutinho, Daniel	Univ. Federal De Santa Catarina		
de Souza, Carlos E.	LNCC		
Xie, Lihua	Nanyang Tech. Univ		
17:20-17:40	TuC16.5		
<i>Stabilizing Bit Rate Conditions for a Scalar Continuous Time Linear System with Bounded Processing Delay and Bounded Process Noise</i> , pp. 4849-4854.			
Ling, Qiang	Univ. of Science and Tech. of China		
17:40-18:00	TuC16.6		
<i>Hybrid Feedback Path Following for Robotic Walkers Via Bang-Bang Control Actions</i> , pp. 4855-4860.			
Andreetto, Marco	Univ. of Trento		
Divan, Stefano	Univ. of Trento		
Fontanelli, Daniele	Univ. of Trento		
Palopoli, Luigi	Univ. of Trento		
<b>TuC17</b>	Ironwood 6		
<b>Constrained Control</b> (Regular Session)			
Chair: Xu, Xiangru	Univ. of Michigan		
Co-Chair: Sznaier, Mario	Northeastern Univ		
16:00-16:20	TuC17.1		
<i>Mean Field Game Based Control of Dispersed Energy Storage Devices with Constrained Inputs</i> , pp. 4861-4866.			
Li, Feng	Pol. Montreal		
Malhame, Roland P.	Ec. Pol. De Montreal		
Le Ny, Jerome	Pol. Montreal		
16:20-16:40	TuC17.2		
<i>Augmented Invariance Control for Systems with Smoothness Constraints</i> , pp. 4867-4873.			
Kimmel, Melanie	Tech. Univ. München		
Jähne, Christoph	Tech. Univ. of Munich, Chair of Information-Oriented Co		
Hirche, Sandra	Tech. Univ. München		
16:40-17:00	TuC17.3		
<i>Safety Control of Monotone Systems with Bounded Uncertainties</i> , pp. 4874-4879.			
Sadraddini, Sadra	Boston Univ		
Belta, Calin	Boston Univ		

17:00-17:20	TuC17.4	Xiong, Junlin	Univ. of Science and Tech. of China
<i>Control Sharing Barrier Functions with Application to Constrained Control</i> , pp. 4880-4885.			
Xu, Xiangru	Univ. of Michigan		
17:20-17:40	TuC17.5		
<i>A General Framework for Constrained Optimal Control Based on Stable Manifold Method</i> , pp. 4886-4893.			
TRAN, Anh Tuan	Nagoya Univ		Johns Hopkins Univ
Sakamoto, Noboru	Nanzan Univ		Imperial Coll. London
17:40-18:00	TuC17.6		
<i>Fast Optimizing Control for Non-Convex State Constraints Using Homotopy Properties (I)</i> , pp. 4894-4900.			
Kontny, Damian	Univ. of Kassel		Imperial Coll. London
Stursberg, Olaf	Univ. of Kassel		Imperial Coll. London
<b>TuC18</b>	Ironwood 7		
<b>Linear Systems (Regular Session)</b>			
Chair: Allgöwer, Frank	Univ. of Stuttgart		Univ. Degli Studi Di Pavia
Co-Chair: Ntogramatzidis, Lorenzo	Curtin Univ		United Tech. Res. Center Ireland
16:00-16:20	TuC18.1		
<i>On the Moment Dynamics of Discrete Measures</i> , pp. 4901-4906.			
Zeng, Shen	Univ. of Stuttgart		The Ohio State Univ
Allgöwer, Frank	Univ. of Stuttgart		The Ohio State Univ
16:20-16:40	TuC18.2		
<i>On the Convergence of Time-Varying Fusion Algorithms: Application to Localization in Dynamic Networks</i> , pp. 4907-4912.			
Safavi, Sam	Tufts Univ		Johns Hopkins Univ
Khan, Usman A.	Tufts Univ		Lehigh Univ
16:40-17:00	TuC18.3		
<i>A Tutorial on the Globally Monotonic Tracking Control Problem with Geometric Techniques</i> , pp. 4913-4918.			Lehigh Univ
Ntogramatzidis, Lorenzo	Curtin Univ		Lehigh Univ
Tregouet, Jean-Francois	Ampère Lab. / INSA-Lyon		
Schmid, Robert	The Univ. of Melbourne		
Ferrante, Augusto	Univ. Di Padova		
17:00-17:20	TuC18.4		
<i>PI Controller Design in the Achievable Gain-Phase Margin Plane</i> , pp. 4919-4924.			
Diaz-Rodriguez, Ivan	Texas A&M Univ		EPFL
Bhattacharyya, Shankar P.	Texas a & M Univ		EPFL
17:20-17:40	TuC18.5		
<i>New Conditions for Annular Finite-Time Stability of Linear Systems</i> , pp. 4925-4930.			
Amato, Francesco	Univ. Magna Graecia Di Catanzaro		
De Tommasi, Gianmaria	Univ. Degli Studi Di Napoli Federico II		
Mele, Adriano	Univ. Degli Studi Di Napoli Federico II		
Pironti, Alfredo	Univ. Degli Studi Di Napoli Federico II		
17:40-18:00	TuC18.6		
<i>Connections between Discrete and Continuous-Time Results for Positive Real and Negative Imaginary Systems</i> , pp. 4931-4936.			
Liu, Mei	Univ. of Science and Tech. of China		Univ. of Sheffield
<b>TuC19</b>	Ironwood 8		
<b>Smart Grid I (Regular Session)</b>			
Chair: Mallada, Enrique			
Co-Chair: De Paola, Antonio			
16:00-16:20	TuC19.1		
<i>Decentralized Coordination of Large Populations of Flexible Electrical Appliances through Demand Saturation</i> , pp. 4937-4943.			
De Paola, Antonio			
Angeli, David			
Strbac, Goran			
16:20-16:40	TuC19.2		
<i>Voltage Stabilization in DC Microgrids through Coupling-Independent Plug-And-Play Controllers</i> , pp. 4944-4949.			
Tucci, Michele			
Riverso, Stefano			
Ferrari-Trecate, Giancarlo			
16:40-17:00	TuC19.3		
<i>On Exact and Near Optimal Power Flow Solutions for Microgrid Applications (I)</i> , pp. 4950-4956.			
Chang, Chin-Yao			
Zhang, Wei			
17:00-17:20	TuC19.4		
<i>Idroop: A Dynamic Droop Controller to Decouple Power Grid's Steady-State and Dynamic Performance (I)</i> , pp. 4957-4964.			
Mallada, Enrique			
17:20-17:40	TuC19.5		
<i>Stochastic Games of End-User Energy Storage Sharing</i> , pp. 4965-4972.			
Yao, Jiyun			
Venkitasubramaniam, Parv			
17:40-18:00	TuC19.6		
<i>Robust Distributed Averaging Frequency Control of Inverter-Based Microgrids</i> , pp. 4973-4978.			
Kammer, Christoph			
Karimi, Alireza			
<b>TuC20</b>	Copppearleaf 1		
<b>Autonomous Systems (Regular Session)</b>			
Chair: Karaman, Sertac			Massachusetts Inst. of Tech
Co-Chair: Kobilarov, Marin			Johns Hopkins Univ
16:00-16:20	TuC20.1		
<i>Range Based Control Law to Generate Patterns with a Unicycle</i> , pp. 4979-4984.			
Tripathy, Twinkle			IIT Bombay
Sinha, Arpita			Indian Inst. of Tech. Bombay
Arya, Hemendra			Indian Inst. of Tech. Bombay
Borkar, Aseem			Indian Inst. of Tech. Bombay
16:20-16:40	TuC20.2		
<i>A Stochastically Verifiable Autonomous Control Architecture with Reasoning</i> , pp. 4985-4991.			
Izzo, Paolo			Univ. of Sheffield
Qu, Hongyang			Univ. of Sheffield

Veres, Sandor M.	Univ. of Sheffield		
16:40-17:00	TuC20.3		
<i>Appropriate Overtaking Motion Generating Method Using Predictive Control with Suitable Car Dynamics</i> , pp. 4992-4997.		<i>CPG Control for Assisting Human with Periodic Motion Tasks</i> , pp. 5035-5040.	
Obayashi, Makoto	DENSO IT Lab	Zhao, Jinjin	
Uto, Keisuke	DENSO IT Lab	Iwasaki, Tetsuya	
Takano, Gaku	DENSO IT Lab	Univ. of California, Los Angeles UCLA	
17:00-17:20	TuC20.4		
<i>Speed Limits in Autonomous Vehicular Networks Due to Communication Constraints</i> , pp. 4998-5003.		17:20-17:40	TuC21.5
Talak, Rajat	MIT	<i>Personalized Cancer Therapy Design: Robustness vs. Optimality</i> , pp. 5041-5046.	
Karaman, Sertac	Massachusetts Inst. of Tech	Lima Fleck, Julia	
Modiano, Eytan	MIT	Cassandras, Christos G.	
17:20-17:40	TuC20.5	Boston Univ Boston Univ	
<i>Incremental Sampling-Based Motion Planners Using Policy Iteration Methods</i> , pp. 5004-5009.		17:40-18:00	TuC21.6
Arslan, Oktay	California Inst. of Tech	<i>A Data-Driven Model Inversion Approach to Cancer Immunotherapy Control (I)</i> , pp. 5047-5052.	
Tsiotras, Panagiotis	Georgia Inst. of Tech	Novara, Carlo	
17:40-18:00	TuC20.6	Karimshoushtari, Milad	
<i>A Stabilizing Gyroscopic Obstacle Avoidance Controller for Underactuated Systems</i> , pp. 5010-5016.		Pol. Di Torino Pol. Di Torino	
Garimella, Gowtham	Johns Hopkins Univ		
Sheckells, Matthew	Johns Hopkins Univ		
Kobilarov, Marin	Johns Hopkins Univ		
<b>TuC21</b>	Coppearleaf 2		
<b>Biomedical Systems (Regular Session)</b>		<b>TuC22</b>	Coppearleaf 3
Chair: Novara, Carlo	Pol. Di Torino	Chair: Mo, Yilin	Nanyang Tech. Univ
Co-Chair: Giarré, Laura	Univ. Di Palermo	Co-Chair: Sinopoli, Bruno	Carnegie Mellon Univ
16:00-16:20	TuC21.1	Organizer: Mo, Yilin	Nanyang Tech. Univ
<i>A Performance Limitation for Blood Glucose Regulation in Type 1 Diabetes Accounting for Insulin Delivery Delays</i> , pp. 5017-5022.		Organizer: Sinopoli, Bruno	Carnegie Mellon Univ
Phan, Hieu Vinh	Univ. of Newcastle		
Carrasco, Diego S.	Univ. of Newcastle	16:00-16:20	TuC22.1
Goodwin, Graham C.	Univ. of Newcastle	<i>Privacy-Aware Quadratic Optimization Using Partially Homomorphic Encryption (I)</i> , pp. 5053-5058.	
Medioli, Adrian Mark	The Univ. of Newcastle	Shoukry, Yasser	
King, Bruce, R	John Hunter Childrens Hospital and Hunter Medical Res. Inst	Gatsis, Konstantinos	
Smart, Carmel	John Hunter Childrens Hospital and Hunter Medical Res. Inst	Alanwar, Amr	
Stephen, Carly	The Univ. of Newcastle	Pappas, George J.	
16:20-16:40	TuC21.2	Seshia, Sanjit A.	
<i>Pulse-Modulated Model of Testosterone Regulation Subject to Exogenous Signals (I)</i> , pp. 5023-5028.		Srivastava, Mani	
Mattsson, Per	Uppsala Univ	Tabuada, Paulo	
Medvedev, Alexander V.	Uppsala Univ	Univ. of California at Los Angeles	
Zhusubaliyev, Zhanybai	South West State Univ. (Kursk State Tech. Univ		
16:40-17:00	TuC21.3		
<i>Regularized LMS Methods for Baseline Wandering Removal in Wearable ECG Devices</i> , pp. 5029-5034.		16:20-16:40	TuC22.2
Argenti, Fabrizio	Univ. of Florence	<i>Secure Estimation for Unstable Systems (I)</i> , pp. 5059-5064.	
Giarré, Laura	Univ. Di Palermo	Wiese, Moritz	
Bamieh, Bassam	Univ. of California at Santa Barbara	Johansson, Karl H.	
17:00-17:20	TuC21.4	Oechtering, Tobias J.	
		Papadimitratos, Panos	
		Sandberg, Henrik	
		Skoglund, Mikael	
		16:40-17:00	TuC22.3
		<i>Information Flow for Security in Control Systems (I)</i> , pp. 5065-5072.	
		Weerakkody, Sean	
		Sinopoli, Bruno	
		Kar, Soummya	
		Datta, Anupam	
		Carnegie Mellon Univ	
		17:00-17:20	TuC22.4
		<i>Secure Dynamic State Estimation Via Local Estimators (I)</i> , pp. 5073-5078.	
		Mo, Yilin	
		Garone, Emanuele	
		Nanyang Tech. Univ	
		Univ. Libre De Bruxelles	
		17:20-17:40	TuC22.5
		<i>Periodic Coordinated Attacks against Cyber-Physical Systems: Detectability and Performance Bounds (I)</i> , pp. 5079-5084.	
		Anguluri, Rajasekhar	
		Gupta, Vijay	
		Univ. of California, Riverside	
		Univ. of Notre Dame	

Pasqualetti, Fabio	Univ. of California, Riverside
17:40-18:00	TuC22.6
<i>When Adversary Encounters Uncertain Cyber-Physical Systems: Robust Zero-Dynamics Attack with Disclosure Resources</i> , pp. 5085-5090.	
Park, Gyunghoon	Seoul National Univ
Shim, Hyungbo	Seoul National Univ
Lee, Chanhwa	Seoul National Univ
Eun, Yongsoon	DGIST
Johansson, Karl H.	Royal Inst. of Tech

TuC23	Ironwood 5
<b>An Overview of Compressed Sensing</b> (Tutorial Session)	
Chair: Vidyasagar, Mathukumalli	The Univ. of Texas at Dallas
Organizer: Vidyasagar, Mathukumalli	The Univ. of Texas at Dallas
16:00-18:00	TuC23.1
<i>A Tutorial Introduction to Compressed Sensing</i> , pp. 5091-5104.	
Vidyasagar, Mathukumalli	The Univ. of Texas at Dallas

**Technical Program for Wednesday December 14, 2016**

<b>WeP1</b>	Ironwood 4	Co-Chair: Chowdhary, Girish	Univ. of Illinois at Urbana Champaign
<b>Future Directions in Control: A Look Backwards and Forwards</b> (Plenary Session)			
Chair: Valcher, Maria Elena	Univ. Di Padova	Garcia de Marina, Hector	Univ. of Groningen
Co-Chair: Doyle III, Francis J.	Harvard Univ	Jayawardhana, Bayu	Univ. of Groningen
08:30-09:30	WeP1.1	Cao, Ming	Univ. of Groningen
<i>Future Directions in Control: A Look Backwards and Forwards*</i> .			
Murray, Richard M.	California Inst. of Tech.	Afzal, Waqas	King Fahd Univ. of Petroleum and Minerals
<b>WeA01</b>	Starvine 1	Masoud, Ahamd A.	KFUPM
<b>Networked Control Systems III</b> (Regular Session)			
Chair: Franze', Giuseppe	Univ. Della Calabria	Travers, Matthew	Carnegie Mellon
Co-Chair: Islam, Shafiqul	Carleton Univ	Ansari, Alexander	Northwestern Univ
10:00-10:20	WeA01.1	Choset, Howie	Carnegie Mellon Univ
<i>Output Feedback Impedance Reflection Based Bilateral Shared Autonomous System without Input Force Measurement</i> , pp. 5105-5109.			
Islam, Shafiqul	Carleton Univ	Sunkara, Vishwamithra Reddy	Wichita State Univ
Liu, Peter X.	Carleton Univ	Chakravarthy, Animesh	Wichita State Univ
10:20-10:40	WeA01.2		
<i>Optimal Control/Observation Points Problem and Separation Principle of Weakly Controlled Large-Scaled Multi-Agent Systems</i> , pp. 5110-5115.			
Tsumura, Koji	The Univ. of Tokyo	Whitman, Julian	Carnegie Mellon Univ
Kawasaki, Issei	The Univ. of Tokyo	Ruscelli, Francesco	Univ. of Bologna
10:40-11:00	WeA01.3	Travers, Matthew	Carnegie Mellon
<i>H2-Clustering of Closed-Loop Consensus Networks under Generalized LQR Designs</i> , pp. 5116-5121.		Choset, Howie	Carnegie Mellon Univ
Xue, Nan	North Carolina State Univ		
Chakrabortty, Aranya	North Carolina State Univ		
11:00-11:20	WeA01.4		
<i>Dynamically Event-Triggered State Estimation of Hidden Markov Models through a Lossy Communication Channel</i> , pp. 5122-5127.			
Huang, Jiarao	Univ. of Alberta		
Shi, Dawei	Beijing Inst. of Tech		
Chen, Tongwen	Univ. of Alberta		
11:20-11:40	WeA01.5		
<i>A Leader-Follower Architecture for Load Frequency Control Purposes against Cyber Attacks in Power Grids - Part I</i> , pp. 5128-5133.			
Franze', Giuseppe	Univ. Della Calabria		
Tedesco, Francesco	Univ. Della Calabria		
Casavola, Alessandro	Univ. Della Calabria		
11:40-12:00	WeA01.6		
<i>A Leader-Follower Architecture for Load Frequency Control Purposes against Cyber Attacks in Power Grids - Part II</i> , pp. 5134-5139.			
Franze', Giuseppe	Univ. Della Calabria		
Tedesco, Francesco	Univ. Della Calabria		
Casavola, Alessandro	Univ. Della Calabria		
Garone, Emanuele	Univ. Libre De Bruxelles		
<b>WeA02</b>	Starvine 2		
<b>Autonomous Robots I</b> (Regular Session)			
Chair: Jayawardhana, Bayu	Univ. of Groningen		
<b>WeA03</b>	Starvine 3		
<b>Control of Networks II</b> (Regular Session)			
Chair: Touri, Behrouz	Univ. of Colorado Boulder		
Co-Chair: Yucelen, Tansel	Missouri Univ. of Science and Tech		
10:00-10:20	WeA03.1		
<i>On Control of Multiagent Formations through Local Interactions</i> , pp. 5177-5182.			
Tran, Dzung	Univ. of South Florida		
Yucelen, Tansel	Univ. of South Florida		
10:20-10:40	WeA03.2		
<i>Resilient and Decentralized Control of Multi-Level Cooperative Mobile Networks to Maintain Connectivity under Adversarial Environment</i> , pp. 5183-5188.			
Chen, Juntao	New York Univ		
Zhu, Quanyan	New York Univ		
10:40-11:00	WeA03.3		

<i>Finite Model Approximations and Asymptotic Optimality of Quantized Policies in Decentralized Stochastic Control</i> , pp. 5189-5194.		
Saldi, Naci	Univ. of Illinois at Urbana-Champaign	Univ. of Stuttgart Univ. of Stuttgart
Yuksel, Serdar	Queen's Univ	
Linder, Tamas	Queen's Univ	
11:00-11:20	WeA03.4	WeA04.6
<i>Littlewood-Offord Theory and Controllability of Random Structures</i> , pp. 5195-5200.		
O'Rourke, Sean	Univ. of Colorado Boulder	Univ. De Los Andes - Univ. Pol. De Catalunya
Touri, Behrouz	Univ. of Colorado Boulder	CONICET
11:20-11:40	WeA03.5	Buenos Aires Inst. of Tech. (ITBA)
<i>Synchronization for Heterogeneous Time-Varying Networks with Non-Introspective, Non-Minimum-Phase Agents in the Presence of External Disturbances with Known Frequencies</i> , pp. 5201-5206.		
Zhang, Meirong	Washington State Univ	Univ. De Los Andes
Saber, Ali	Washington State Univ	
Stoorvogel, Anton A.	Univ. of Twente	
11:40-12:00	WeA03.6	
<i>Towards a Complete Characterization of Vulnerability of Networked Synchronization Processes</i> , pp. 5207-5212.		
Dhal, Rahul	EPIS Inc	Starvine 5
Lafferriere, Gerardo A.	Portland State Univ	Lund Univ
caughman, John	Portland State Univ	Linkoping Univ
10:00-10:20	WeA04.1	Lund Univ
<b>WeA04</b> <b>Distributed Control I (Regular Session)</b>		
Chair: Ren, Wei	Univ. of California, Riverside	
Co-Chair: Stefanovic, Margareta	Univ. of Denver	
10:20-10:40	WeA04.2	
<i>Distributed Sliding Mode Control for Multi-Vehicle Systems with Positive Definite Topologies</i> (I), pp. 5213-5219.		
Wu, Yujia	Univ. of California, Berkeley	WeA05.1
Li, Shengbo	Tsinghua Univ	
Zheng, Yang	Univ. of Oxford	
Hedrick, J. Karl	Univ. of California at Berkeley	
10:40-11:00	WeA04.3	
<i>Distributed Minimum Weighted Norm Solution to Linear Equations Associated with Weighted Inner Product</i> , pp. 5220-5225.		
Wang, Peng	Univ. of California, Riverside	
Ren, Wei	Univ. of California, Riverside	
Duan, Zhisheng	Peking Univ	
11:00-11:20	WeA04.4	
<i>Distributed Model Predictive Control of Linear Discrete-Time Systems with Coupled Constraints</i> , pp. 5226-5231.		
Wang, Zheming	National Univ. of Singapore	WeA05.2
Ong, Chong-Jin	National Univ. of Singapore	
Hong, Geok Soon	Associate Professor	
11:20-11:40	WeA04.5	
<i>Distributed Decoupling of Linear Multiagent Systems with Interconnected Nonlinear Uncertainties</i> , pp. 5232-5237.		
Rezaei, Vahid	Univ. of Denver	
Stefanovic, Margareta	Univ. of Denver	
11:40-12:00	WeA04.6	
<i>Controller Synthesis for Distributed Systems Over Undirected Graphs</i>		
<i>(I)</i> , pp. 5238-5244.		
Holicki, Tobias		
Scherer, Carsten W.		
11:40-12:00	WeA04.6	
<i>Distributed Formation Control of Multiple Unmanned Aerial Vehicles Over Time-Varying Graphs Using Population Games</i> , pp. 5245-5250.		
Barreiro-Gomez, Julian	Univ. De Los Andes - Univ. Pol. De Catalunya	
Mas, Ignacio	CONICET	
Ocampo-Martinez, Carlos	Tech. Univ. of Catalonia (UPC)	
Sánchez-Peña, Ricardo S.	Buenos Aires Inst. of Tech. (ITBA)	
Quijano, Nicanor	Univ. De Los Andes	
<b>WeA05</b> <b>Control of Monotone Systems (Invited Session)</b>		
Chair: Rantzer, Anders	Starvine 5	
Co-Chair: Altafini, Claudio	Lund Univ	
Organizer: Rantzer, Anders	Linkoping Univ	
10:00-10:20	WeA05.1	Lund Univ
<i>New Results on the Solution of the Positive Consensus Problem</i> (I), pp. 5251-5256.		
Valcher, Maria Elena	Univ. Di Padova	
Zorzan, Irene	Univ. of Padova	
10:20-10:40	WeA05.2	
<i>An Infinitesimal Characterization of Nonlinear Contracting Interference Functions</i> (I), pp. 5257-5262.		
Ugo Abara, Precious	Tech. Univ. of Munich	
Ticozzi, Francesco	Univ. Di Padova	
Altafini, Claudio	Linkoping Univ	
10:40-11:00	WeA05.3	
<i>Convex Reformulation of a Robust Optimal Control Problem for a Class of Positive Systems</i> (I), pp. 5263-5268.		
Colombino, Marcello	ETH Zurich	
Dhingra, Neil K	Univ. of Minnesota	
Jovanovic, Mihailo	Univ. of Minnesota	
Smith, Roy S.	ETH Zurich	
11:00-11:20	WeA05.4	
<i>Diagonal Lyapunov Functions for Positive Linear Time-Varying Systems</i> (I), pp. 5269-5274.		
Khong, Sei Zhen	Univ. of Minnesota	
Rantzer, Anders	Lund Univ	
11:20-11:40	WeA05.5	
<i>H-Infinity Optimal Control for Infinite-Dimensional Systems with Strictly Negative Generator</i> (I), pp. 5275-5280.		
Lidström, Carolina	Lund Univ	
Rantzer, Anders	Lund Univ	
Morris, Kirsten	Univ. of Waterloo	
11:40-12:00	WeA05.6	
<i>Exchange Economics As an Alternative to Distributed Optimization</i> (I), pp. 5281-5285.		
Rantzer, Anders	Lund Univ	
<b>WeA06</b> <b>Game Theory I (Regular Session)</b>		
Chair: Nayyar, Ashutosh	Starvine 6	
	Univ. of Southern California	

Co-Chair: Kar, Soummya	Carnegie Mellon Univ		
10:00-10:20	WeA06.1		
<i>To Observe or Not to Observe: Queuing Game Framework for Urban Parking</i> , pp. 5286-5291.			
Ratliff, Lillian J.	Univ. of Washington		
Dowling, Chase	Univ. of Washington		
Mazumdar, Eric	UC Berkeley		
Zhang, Baosen	Univ. of Washington		
10:20-10:40	WeA06.2		
<i>Learning Pure-Strategy Nash Equilibria in Networked Multi-Agent Systems with Uncertainty</i> , pp. 5292-5297.			
Eksin, Ceyhun	Georgia Inst. of Tech		
Swenson, Brian	Carnegie Mellon Univ		
Kar, Soummya	Carnegie Mellon Univ		
Ribeiro, Alejandro	Univ. of Pennsylvania		
10:40-11:00	WeA06.3		
<i>Stochastic Payoff-Based Learning in Multi-Agent Systems Modeled by Means of Potential Games</i> , pp. 5298-5303.			
Tatarenko, Tatiana	TU Darmstadt		
11:00-11:20	WeA06.4		
<i>Optimal Nonlinear Solutions for Reverse Stackelberg Games with Incomplete Information</i> , pp. 5304-5309.			
Su, Zhou	Delft Univ. of Tech		
Baldi, Simone	Delft Univ. of Tech		
De Schutter, Bart	Delft Univ. of Tech		
11:20-11:40	WeA06.5		
<i>Finite Stage Asymmetric Repeated Games: Both Players' Viewpoints</i> , pp. 5310-5315.			
Li, Lichun	Georgia Inst. of Tech		
Feron, Eric	Georgia Tech		
Shamma, Jeff S.	KAUST		
11:40-12:00	WeA06.6		
<i>Optimal Auction Design for Flexible Consumers</i> , pp. 5316-5321.			
Navabi, Shiva	Univ. of Southern California		
Nayyar, Ashutosh	Univ. of Southern California		
<b>WeA07</b>		Starvine 7	
<b>Optimization I (Regular Session)</b>			
Chair: Peet, Matthew M.	Arizona State Univ		
Co-Chair: Wynn, Andrew	Imperial Coll. London		
10:00-10:20	WeA07.1		
<i>Multi-Objective Optimization of Tracking/Impedance Control for a Prosthetic Leg with Energy Regeneration</i> , pp. 5322-5327.			
Khademi, Gholamreza	Cleveland State Univ		
Richter, Hanz	Cleveland State Univ		
Simon, Dan	Cleveland State Univ		
10:20-10:40	WeA07.2		
<i>A New Method to Compute Generalized Inverses for Control Allocation</i> , pp. 5328-5334.			
Kirchengast, Martin	Graz Univ. of Tech		
Steinberger, Martin	Graz Univ. of Tech		
Horn, Martin	Graz Univ. of Tech		
10:40-11:00	WeA07.3		
<i>A Convex Optimization Approach to Design of Information Structured Linear Constrained Controllers</i> , pp. 5335-5341.			
Wang, Yin	Northeastern Univ. / Avigilon		
Ozbay, Bengisu	Northeastern Univ		
Sharif, Mohammadreza	Northeastern Univ		
Sznaier, Mario	Northeastern Univ		
11:00-11:20	WeA07.4		
<i>An Optimization-Based Method for Bounding State Functionals of Nonlinear Stochastic Systems</i> , pp. 5342-5347.			
Ahmadi, Mohamadreza	Univ. of Oxford		
Harris, Andreas William Kisling	Univ. of Oxford		
Papachristodoulou, Antonis	Univ. of Oxford		
11:20-11:40	WeA07.5		
<i>Multi-Objective Dynamic Programming for Constrained Optimization of Non-Separable Objective Functions with Application in Energy Storage</i> , pp. 5348-5353.			
Kamyar, Reza	Arizona State Univ		
Peet, Matthew M.	Arizona State Univ		
11:40-12:00	WeA07.6		
<i>H2/Hinfinity Based Sliding Mode Control: A Partial Eigenstructure Assignment Method</i> , pp. 5354-5359.			
Argha, Ahmadreza	Univ. of Tech. Sydney		
Su, Steven W.	Univ. of Tech. Sydney		
Savkin, Andrey V.	Univ. of New South Wales		
Celler, Branko G.	CSIRO ICT Centre		
<b>WeA08</b>		Starvine 8	
<b>Stochastic Systems IV (Regular Session)</b>			
Chair: Li, Jian	Texas A&M Univ		
Co-Chair: Master, Neal	Stanford Univ		
10:00-10:20	WeA08.1		
<i>Infinite Server Queueing Networks with Deadline Based Routing</i> , pp. 5360-5366.			
Master, Neal	Stanford Univ		
Bambos, Nicholas	Stanford Univ		
10:20-10:40	WeA08.2		
<i>Backstepping Design for Incremental Stability of Stochastic Hamiltonian Systems</i> , pp. 5367-5372.			
Jagtap, Pushpak	Tech. Univ. of Munich		
Zamani, Majid	Tech. Univ. of Munich		
10:40-11:00	WeA08.3		
<i>Lyapunov and Converse Lyapunov Theorems for Stochastic Semistability</i> , pp. 5373-5378.			
Rajpurohit, Tanmay	Georgia Inst. of Tech		
Haddad, Wassim M.	Georgia Inst. of Tech		
11:00-11:20	WeA08.4		
<i>Asymptotic Stability in Probability of a Square Root Stochastic Process</i> , pp. 5379-5383.			
Khalifa, Tahar	Inst. Supérieur Des Sciences Appliquées Et De Tech. De		
Barbata, Asma	Univ. De Lorraine		
Zasadzinski, Michel	Univ. De Lorraine & CRAN		
Souley Ali, Harouna	Univ. De Lorraine, CRAN UMR 7039 CNRS		
11:20-11:40	WeA08.5		
<i>Optimal Resource Capacity Management in Stochastic Loss Network Systems with Applications in Clouds and Data Centers</i> , pp. 5384-5389.			

Li, Jian	Texas A&M Univ	
11:40-12:00	WeA08.6	
<i>On Stochastic Optimal Control for Linear Systems with Robust Stability</i> , pp. 5390-5395.		
Ito, Yuji	Toyota Central R&d Labs., Inc	
Fujimoto, Kenji	Kyoto Univ	
Tadokoro, Yukihiro	TOYOTA Central R&D Lab., Inc	
Yoshimura, Takayoshi	TOYOTA Central R&D Lab., Inc	
<b>WeA09</b>	Starvine 9	
<b>Observers for Linear Systems (Regular Session)</b>		
Chair: Zaccarian, Luca	Univ. of Trento, VAT 003405020220	
Co-Chair: Efimov, Denis	Inria - Lne	
10:00-10:20	WeA09.1	
<i>On the Convergence of Sensitivity-Driven Partition-Based Moving Horizon Estimators</i> , pp. 5396-5401.		
Schneider, René	RWTH Aachen Univ	
10:20-10:40	WeA09.2	
<i>An Adaptive Pseudo-Inverse Method for the Fault-Tolerant Output Allocation in Linear Observers with Redundant Sensors</i> , pp. 5402-5407.		
Cristofaro, Andrea	NTNU	
Zaccarian, Luca	LAAS-CNRS and Univ. of Trento	
10:40-11:00	WeA09.3	
<i>A Hybrid Observer for Fixed-Time State Estimation of Linear Systems</i> , pp. 5408-5413.		
Ríos, Héctor	Coll. of Engineering, UCSB	
Teel, Andrew R.	Univ. of California at Santa Barbara	
11:00-11:20	WeA09.4	
<i>Sensor Placement for Reliable Observability: A Structured Systems Approach</i> , pp. 5414-5421.		
Liu, Xiaofei	Carnegie Mellon Univ	
Weerakkody, Sean	Carnegie Mellon Univ	
Sinopoli, Bruno	Carnegie Mellon Univ	
11:20-11:40	WeA09.5	
<i>Optimal Control of Parallel Buffers by Using Output Feedback Based on Practical Observers</i> , pp. 5422-5427.		
Alessandri, Angelo	Univ. of Genoa	
Percivale, Danilo	Univ. of Genoa	
Van der Putten, Robertus	Univ. of Genoa	
11:40-12:00	WeA09.6	
<i>Observer-Based Control for Linear Sampled-Data Systems: An Impulsive System Approach</i> , pp. 5428-5433.		
Ríos, Héctor	Coll. of Engineering, UCSB	
Hetel, Laurentiu	CNRS	
Efimov, Denis	Inria	
<b>WeA10</b>	Starvine 10	
<b>Filtering (Regular Session)</b>		
Chair: Taghvaei, Amirhossein	Univ. of Illinois at Urbana-Champaign	
Co-Chair: Berntorp, Karl	Mitsubishi Electric Res. Labs	
10:00-10:20	WeA10.1	
<i>Process-Noise Adaptive Particle Filtering with Dependent Process</i>		
<i>and Measurement Noise</i> , pp. 5434-5439.		
Berntorp, Karl	Mitsubishi Electric Res. Labs	
Di Cairano, Stefano	Mitsubishi Electric Res. Labs	
10:20-10:40	WeA10.2	
<i>Attitude Estimation with Feedback Particle Filter</i> , pp. 5440-5445.		
Zhang, Chi	Univ. of Illinois at Urbana-Champaign	
Taghvaei, Amirhossein	Univ. of Illinois at Urbana-Champaign	
Mehta, Prashant G.	Univ. of Illinois, Urbana-Champaign	
10:40-11:00	WeA10.3	
<i>Gain Function Approximation in the Feedback Particle Filter</i> , pp. 5446-5452.		
Taghvaei, Amirhossein	Univ. of Illinois at Urbana-Champaign	
Mehta, Prashant G.	Univ. of Illinois, Urbana-Champaign	
11:00-11:20	WeA10.4	
<i>Learning Techniques for Feedback Particle Filter Design</i> , pp. 5453-5459.		
Radhakrishnan, Anand	Univ. of Florida	
Devraj, Adithya M.	Univ. of Florida	
Meyn, Sean P.	Univ. of Florida	
11:20-11:40	WeA10.5	
<i>The Feedback Theorem for Sub-Optimal Filters</i> , pp. 5460-5464.		
Capace, Filippo	Univ. Campus Biomedico Di Roma	
Germani, Alfredo	Univ. Dell'quila	
Manes, Costanzo	Univ. Dell'quila	
11:40-12:00	WeA10.6	
<i>Filtering with Fidelity for Time-Varying Gauss-Markov Processes</i> , pp. 5465-5470.		
Stavrou, Photios A.	Univ. of Cyprus	
Charalambous, Themistoklis	Chalmers Univ. of Tech	
Charalambous, Charalambos D.	Univ. of Cyprus	
<b>WeA11</b>	Starvine 11	
<b>Iterative Learning Control (Regular Session)</b>		
Chair: Ferrari, Silvia	Cornell Univ	
Co-Chair: Rogers, Eric	Univ. of Southampton	
10:00-10:20	WeA11.1	
<i>Value Function Approximation for the Control of Multiscale Dynamical Systems</i> , pp. 5471-5477.		
Zhu, Pingping	Cornell Univ	
Morelli, Julian	Cornell Univ	
Ferrari, Silvia	Cornell Univ	
10:20-10:40	WeA11.2	
<i>Iterative Learning Control Design Based on Feedback Linearization and Nonlinear Repetitive Process Stability Theory</i> , pp. 5478-5483.		
Pakshin, Pavel	Arzamas Pol. Inst. of R.E. Alekseev Nizhny Novgorod S	
Emelianova, Julia	Arzamas Pol. Inst. of R.E. Alekseev Nizhny Novgorod S	
Emelianov, Mikhail	Arzamas Pol. Inst. of R.E. Alekseev Nizhny Novgorod S	
Galkowski, Krzysztof	Univ. of Zielona Gora	

Rogers, Eric	Univ. of Southampton	WeA12.5
10:40-11:00	WeA11.3	
<i>Adapting Strategies to Dynamic Environments in Controllable Stackelberg Security Games</i> , pp. 5484-5489.		
Trejo, Kristal	CINVESTAV	
Clempner, Julio	National Pol. Inst	Univ. Catholique De Louvain
Poznyak, Alexander	CINVESTAV-IPN	Univ. of Illinois, Urbana-Champaign
11:00-11:20	WeA11.4	Univ. of Illinois, Urbana-Champaign
<i>Non-Repetitive Trajectory Tracking for Joint Position Constrained Robot Manipulators Using Iterative Learning Control</i> , pp. 5490-5495.		Univ. of Louvain
Jin, Xu	Georgia Inst. of Tech	
11:20-11:40	WeA11.5	WeA12.6
<i>Repetitive Control of Non-Minimum Phase Systems Along B-Spline Trajectories</i> , pp. 5496-5501.		<i>Language Constrained Stabilization of Discrete-Time Switched Linear Systems: A Lyapunov-Metzler Inequalities Approach</i> , pp. 5539-5544.
Biagiotti, Luigi	Univ. of Modena and Reggio Emilia	CNRS - Univ. De Lorraine
Califano, Federico	Univ. of Bologna	CNRS
Melchiorri, Claudio	Univ. of Bologna	CNRS, Univ. Grenoble Alpes
11:40-12:00	WeA11.6	
<i>Design and Modeling Aspects in Multivariable Iterative Learning Control</i> , pp. 5502-5507.		
Blanken, Lennart	Eindhoven Univ. of Tech	Starvine 13
Koekebakker, Sjirk Holger	Océ Tech. B.V	
Oomen, Tom	Eindhoven Univ. of Tech	
<b>WeA12</b>	Starvine 12	
<b>Stability of Hybrid Systems</b> (Regular Session)		
Chair: Dullerud, Geir E.	Univ. of Illinois, Urbana-Champaign	
Co-Chair: D'Innocenzo, Alessandro	Univ	
10:00-10:20	WeA12.1	WeA13.1
<i>New Stability Results for Switched Discrete-Time Systems with Application to Consensus Problems</i> , pp. 5508-5514.		
Lee, Ti-Chung	Univ. of Science and Tech	
Xia, Weiguo	Dalian Univ. of Tech	
Su, Youfeng	Fuzhou Univ	
Huang, Jie	The Chinese Univ. of Hong Kong	
10:20-10:40	WeA12.2	
<i>Bisimulations for Input-Output Stability of Hybrid Systems</i> , pp. 5515-5520.		
Prabhakar, Pavithra	Kansas State Univ	
Liu, Jun	Univ. of Waterloo	
10:40-11:00	WeA12.3	
<i>Stability Analysis of Singularly Perturbed Switched and Impulsive Linear Systems</i> , pp. 5521-5526.		
Ben Rejeb, Jihene	Univ. De Lorraine -- CRAN	
Morarescu, Irinel-Constantin	Cran Cnrs Umr 7039 - UI	
Girard, Antoine	CNRS	
Daafouz, Jamal	Univ. De Lorraine, CRAN, CNRS	
11:00-11:20	WeA12.4	WeA13.2
<i>On Stability of Time-Inhomogeneous Markov Jump Linear Systems</i> , pp. 5527-5532.		
Zacchia Lun, Yurii	Gran Sasso Science Inst. (GSSI)	
D'Innocenzo, Alessandro	Univ	
Di Benedetto, M. Domenica	Univ. of L'Aquila	
11:20-11:40	WeA13.3	
<i>On Almost Lyapunov Functions for Non-Vanishing Vector Fields</i> , pp. 5557-5562.		
Liu, Shenyu	Coordinated Science Lab. Univ. of Illinois at Urbana	
Liberzon, Daniel	Univ. of Illinois, Urbana-Champaign	
Zharnitsky, Vadim	Univ. of Illinois at Urbana-Champaign	
11:00-11:20	WeA13.4	
<i>Weak Stability of Nonlinear Repetitive Processes</i> , pp. 5563-5568.		
Pakshin, Pavel	Arzamas Pol. Inst. of R.E. Alekseev Nizhny Novgorod S	
Emelianova, Julia	Arzamas Pol. Inst. of R.E. Alekseev Nizhny Novgorod S	
Emelianov, Mikhail	Arzamas Pol. Inst. of R.E. Alekseev Nizhny Novgorod S	
Galkowski, Krzysztof	Univ. of Zielona Gora	
Rogers, Eric	Univ. of Southampton	
11:20-11:40	WeA13.5	
<i>Estimating the Domain of Attraction Based on the Invariance Principle</i> , pp. 5569-5576.		
HAN, Dongkun	Tech. Univ. of Munich	
Elguindy, Ahmed	Tech. Univ. of Munich	
Althoff, Matthias	Tech. Univ. München	

11:40-12:00	WeA13.6	Organizer: Le Gorrec, Yann	Ensmm, Femto-St / As2m																																																																		
<i>Boundary Stabilization of Hyperbolic Conservation Laws Using Conservative Finite Volume Schemes</i> , pp. 5577-5582.			WeA15.1																																																																		
Herty, Michael	RWTH Aachen Univ	Ascencio, Pedro	Imperial Coll. London																																																																		
Yu, Hui	RWTH Aachen Univ	Astolfi, Alessandro	Imperial Coll. & Univ. of Rome																																																																		
<b>WeA14</b> Ironwood 1			Parisini, Thomas																																																																		
<b>Information Theory and Control (Regular Session)</b>			Imperial Coll. & Univ. of Trieste																																																																		
Chair: Karaman, Sertac	Massachusetts Inst. of Tech	Bresch-Pietri, Delphine	CNRS, GIPSA-Lab																																																																		
Co-Chair: Fox, Roy	Hebrew Univ	Krstic, Miroslav	Univ. of California, San Diego																																																																		
10:00-10:20	WeA14.1	10:20-10:40	WeA15.2																																																																		
<i>Information-Based Active SLAM Via Topological Feature Graphs</i> , pp. 5583-5590.			<i>Robustness to Diffusion of Prediction-Based Control for Convection Processes (I)</i> , pp. 5629-5634.																																																																		
Mu, Beipeng	MIT	Bresch-Pietri, Delphine	CNRS, GIPSA-Lab																																																																		
Giamou, Matthew	MIT	Krstic, Miroslav	Univ. of California, San Diego																																																																		
Paull, Liam	MIT	10:40-11:00	WeA15.3																																																																		
Agha-mohammadi, Ali-akbar	Texas A&M Univ	<i>Desynchronization and Resynchronization of Interconnected Finite and Infinite Dimensional Systems: Interpretation of Attack and Accommodation Using FDI Framework (I)</i> , pp. 5635-5642.																																																																			
Leonard, John J.	Massachusetts Inst. of Tech	Demetriou, Michael A.	Worcester Pol. Inst																																																																		
How, Jonathan P.	MIT	11:00-11:20	WeA15.4																																																																		
10:20-10:40	WeA14.2	Iftime, Orest V.	Univ. of Groningen																																																																		
<i>Non-Myopic Target Tracking Strategies for Non-Linear Systems</i> , pp. 5591-5596.			11:20-11:40																																																																		
Zhang, Zhongshun	Virginia Tech	Zhang, Shuang	Univ. of Electronic Science and Tech. of China																																																																		
Tokekar, Pratap	Virginia Tech	He, Wei	Univ. of Science and Tech. Beijing																																																																		
10:40-11:00	WeA14.3	Zou, Mingfo	Univ. of Electronic Science and Tech. of China																																																																		
<i>Order Preservation of Expected Information Content Using Unscented Transform Approximation of Multivariate Prior Distributions in HIV 2-LTR Experiment Design</i> , pp. 5597-5602.			He, Xiuyu																																																																		
Abraham, George	Swarthmore Coll	11:40-12:00	WeA15.6																																																																		
Jagarapu, Aditya	Univ. of Delaware	<i>Multivariable PI Controller Design for 2 X 2 Systems Governed by Hyperbolic Partial Differential Equations with Lyapunov Techniques</i> , pp. 5654-5659.																																																																			
Cannon, LaMont	Univ. of Delaware	TRINH, Ngoc-Tu	Univ. of Lyon, Univ. Lyon 1, Lab. LAGEP																																																																		
Zurkowski, Ryan	Univ. of Delaware	Andrieu, Vincent	Univ. De Lyon																																																																		
11:00-11:20	WeA14.4	Xu, Chengzhong	Univ. Claude Bernard - Lyon1																																																																		
<i>Minimum-Information LQG Control — Part II: Retentive Controllers</i> , pp. 5603-5609.			<b>WeA16</b> Ironwood 3																																																																		
Fox, Roy	Hebrew Univ	<b>Feedback Linearization (Regular Session)</b>																																																																			
Tishby, Naftali	Hebrew Uni	11:20-11:40	WeA14.5	<i>Minimum-Information LQG Control — Part I: Memoryless Controllers</i> , pp. 5610-5616.			Chair: Paliotta, Claudio	Norwegian Univ. of Science and Tech. - NTNU	Fox, Roy	Hebrew Univ	Co-Chair: Schuster, Eugenio	Lehigh Univ	Tishby, Naftali	Hebrew Uni	10:00-10:20	WeA16.1	11:40-12:00	WeA14.6	<i>Trajectory Tracking of Under-Actuated Marine Vehicles</i> , pp. 5660-5667.			<i>Control with Actuation Anticipation</i> , pp. 5617-5622.			Paliotta, Claudio	Norwegian Univ. of Science and Tech. - NTNU	Hariyoshi, Ena	UC Berkeley	Lefever, Erjen	Eindhoven Univ. of Tech	Ranade, Gireeja	Microsoft Res	Pettersen, Kristin Y.	Norwegian Univ. of Science and Tech	Sahai, Anant	UC Berkeley	10:20-10:40	WeA16.2	<b>WeA15</b> Ironwood 2			<i>Safety Factor Profile Control in Tokamaks Via Feedback Linearization (I)</i> , pp. 5668-5673.			<b>Estimation and Control of PDE Systems (Invited Session)</b>			Pajares, Andres	Lehigh Univ	Chair: Demetriou, Michael A.	Worcester Pol. Inst				Co-Chair: Le Gorrec, Yann	Ensmm, Femto-St / As2m				Organizer: Demetriou, Michael A.	Worcester Pol. Inst				Organizer: Fahroo, Fariba	DARPA			
11:20-11:40	WeA14.5	<i>Minimum-Information LQG Control — Part I: Memoryless Controllers</i> , pp. 5610-5616.			Chair: Paliotta, Claudio	Norwegian Univ. of Science and Tech. - NTNU	Fox, Roy	Hebrew Univ	Co-Chair: Schuster, Eugenio	Lehigh Univ	Tishby, Naftali	Hebrew Uni	10:00-10:20	WeA16.1	11:40-12:00	WeA14.6	<i>Trajectory Tracking of Under-Actuated Marine Vehicles</i> , pp. 5660-5667.			<i>Control with Actuation Anticipation</i> , pp. 5617-5622.			Paliotta, Claudio	Norwegian Univ. of Science and Tech. - NTNU	Hariyoshi, Ena	UC Berkeley	Lefever, Erjen	Eindhoven Univ. of Tech	Ranade, Gireeja	Microsoft Res	Pettersen, Kristin Y.	Norwegian Univ. of Science and Tech	Sahai, Anant	UC Berkeley	10:20-10:40	WeA16.2	<b>WeA15</b> Ironwood 2			<i>Safety Factor Profile Control in Tokamaks Via Feedback Linearization (I)</i> , pp. 5668-5673.			<b>Estimation and Control of PDE Systems (Invited Session)</b>			Pajares, Andres	Lehigh Univ	Chair: Demetriou, Michael A.	Worcester Pol. Inst				Co-Chair: Le Gorrec, Yann	Ensmm, Femto-St / As2m				Organizer: Demetriou, Michael A.	Worcester Pol. Inst				Organizer: Fahroo, Fariba	DARPA					
<i>Minimum-Information LQG Control — Part I: Memoryless Controllers</i> , pp. 5610-5616.			Chair: Paliotta, Claudio	Norwegian Univ. of Science and Tech. - NTNU																																																																	
Fox, Roy	Hebrew Univ	Co-Chair: Schuster, Eugenio	Lehigh Univ																																																																		
Tishby, Naftali	Hebrew Uni	10:00-10:20	WeA16.1																																																																		
11:40-12:00	WeA14.6	<i>Trajectory Tracking of Under-Actuated Marine Vehicles</i> , pp. 5660-5667.																																																																			
<i>Control with Actuation Anticipation</i> , pp. 5617-5622.			Paliotta, Claudio	Norwegian Univ. of Science and Tech. - NTNU																																																																	
Hariyoshi, Ena	UC Berkeley	Lefever, Erjen	Eindhoven Univ. of Tech																																																																		
Ranade, Gireeja	Microsoft Res	Pettersen, Kristin Y.	Norwegian Univ. of Science and Tech																																																																		
Sahai, Anant	UC Berkeley	10:20-10:40	WeA16.2																																																																		
<b>WeA15</b> Ironwood 2			<i>Safety Factor Profile Control in Tokamaks Via Feedback Linearization (I)</i> , pp. 5668-5673.																																																																		
<b>Estimation and Control of PDE Systems (Invited Session)</b>			Pajares, Andres	Lehigh Univ																																																																	
Chair: Demetriou, Michael A.	Worcester Pol. Inst																																																																				
Co-Chair: Le Gorrec, Yann	Ensmm, Femto-St / As2m																																																																				
Organizer: Demetriou, Michael A.	Worcester Pol. Inst																																																																				
Organizer: Fahroo, Fariba	DARPA																																																																				

Schuster, Eugenio	Lehigh Univ	Ushio, Toshimitsu	Osaka Univ
10:40-11:00	WeA16.3	11:40-12:00	WeA17.6
<i>Spin-Axis Stabilization of a Rigid Body about an Arbitrary Direction Using Two Reaction Wheels</i> , pp. 5674-5681.		<i>Feasibility Envelopes for Metric Temporal Logic Specifications</i> , pp. 5732-5737.	
Kim, Kyunam	UC Berkeley	Sadraddini, Sadra	Boston Univ
Agogino, Alice	Univ. of California at Berkeley	Belta, Calin	Boston Univ
11:00-11:20	WeA16.4		
<i>Pre-Action and Stable Inversion Based Precise Tracking for Non-Minimum Phase System</i> , pp. 5682-5687.			
Zhang, Youling	Coll. of Control Science and Engineering, Zhejiang Univ		
Zhu, Qiuguo	Coll. of Control Science and Engineering, Zhejiang Univ		
Xiong, Rong	Zhejiang Univ		
11:20-11:40	WeA16.5		
<i>Approximate Dynamic Tracking and Feedback Linearization</i> , pp. 5688-5693.			
Sassano, Mario	Univ. of Rome, Tor Vergata	Nemcova, Jana	Univ. of Chemistry and Tech. Prague
Astolfi, Alessandro	Imperial Coll. & Univ. of Rome	Petreczky, Mihaly	UMR CNRS 9189, Ec. Centrale De Lille
11:40-12:00	WeA16.6	van Schuppen, Jan H.	Van Schuppen Control Res
<i>Robust Model Predictive Control for Non-Linear Systems with Input and State Constraints Via Feedback Linearization</i> , pp. 5694-5699.			
Pant, Yash Vardhan	Univ. of Pennsylvania		
Abbas, Houssam	Univ. of Pennsylvania	Ishizaki, Takayuki	Tokyo Inst. of Tech
Mangharam, Rahul	Univ. of Pennsylvania	Ku, Risong	Tokyo Inst. of Tech
		Imura, Jun-ichi	Tokyo Inst. of Tech
<b>WeA17</b>	Ironwood 6	10:40-11:00	WeA18.3
<b>Formal Verification/Synthesis I (Regular Session)</b>		<i>Nonlinear Model Reduction by Deep Autoencoder of Noise Response Data</i> , pp. 5750-5755.	
Chair: Belta, Calin	Boston Univ	Kashima, Kenji	Kyoto Univ
Co-Chair: Ozay, Necmiye	Univ. of Michigan		
10:00-10:20	WeA17.1	11:00-11:20	WeA18.4
<i>Interdependence Quantification for Compositional Control Synthesis with an Application in Vehicle Safety Systems</i> , pp. 5700-5707.		<i>Introducing Network Gramians to Undirected Network Systems for Structure-Preserving Model Reduction</i> , pp. 5756-5761.	
Smith, Stanley W.	Univ. of Michigan, Ann Arbor	Cheng, Xiaodong	Univ. of Groningen
Nilsson, Petter	Univ. of Michigan	Scherpen, Jacquelien M.A.	Univ. of Groningen
Ozay, Necmiye	Univ. of Michigan		
10:20-10:40	WeA17.2	11:20-11:40	WeA18.5
<i>Robotic Swarm Control from Spatio-Temporal Specifications</i> , pp. 5708-5713.		<i>A New <math>H^2</math> Optimal Model Reduction Method Based on Riemannian Conjugate Gradient Method</i> , pp. 5762-5768.	
Haghghi, Iman	Boston Univ	Sato, Hiroyuki	Tokyo Univ. of Science
Sadraddini, Sadra	Boston Univ	Sato, Kazuhiro	Kyoto Univ
Belta, Calin	Boston Univ		
10:40-11:00	WeA17.3	11:40-12:00	WeA18.6
<i>Synthesizing Least-Limiting Guidelines for Safety of Semi-Autonomous Systems</i> , pp. 5714-5719.		<i>Complexity Reduction for Uncertain Systems: A Projection-Based Approach</i> , pp. 5769-5774.	
Tumova, Jana	Royal Inst. of Tech	Bachnas, Ahmad Alrianes	TU Eindhoven
Dimarogonas, Dimos V.	Royal Inst. of Tech	Yan, Xiaowei	Eindhoven Univ. of Tech
11:00-11:20	WeA17.4	Weiland, Siep	Eindhoven Univ. of Tech
<i>Decomposing Controller Synthesis for Safety Specifications</i> , pp. 5720-5725.			
Dallal, Eric	Univ. of California in Los Angeles		
Tabuada, Paulo	Univ. of California at Los Angeles		
11:20-11:40	WeA17.5	<b>WeA19</b>	Ironwood 8
<i>Symbolic Control of Systems with Dead Times Using Symbolic Smith Predictors</i> , pp. 5726-5731.		<b>Smart Grid II (Regular Session)</b>	
Mizoguchi, Masashi	Osaka Univ	Chair: Grammatico, Sergio	Eindhoven Univ. of Tech
		Co-Chair: Bolognani, Saverio	ETH
10:00-10:20	WeA19.1		
<i>Exponentially Convergent Decentralized Charging Control for Large Populations of Plug-In Electric Vehicles (I)</i> , pp. 5775-5780.		Grammatico, Sergio	Eindhoven Univ. of Tech

10:20-10:40	WeA19.2	Narayanan, Vignesh	Missouri Univ. of Science and Tech
<i>The Value of Communication in the Voltage Regulation Problem</i> , pp. 5781-5786.		Jagannathan, Sarangapani	Missouri Univ. of Science & Tech
Cavraro, Guido	Univ. of Padova		
Bolognani, Saverio	ETH		
Carli, Ruggero	Univ. of Padova		
Zampieri, Sandro	Univ. Di Padova		
10:40-11:00	WeA19.3		
<i>A Distributed Command Governor Approach for the Online Management of Reactive Power in Smart Grids with Distributed Generation</i> , pp. 5787-5792.			
Casavola, Alessandro	Univ. Della Calabria		
Tedesco, Francesco	Univ. Della Calabria		
VIZZA, Maurizio	UNICAL		
11:00-11:20	WeA19.4		
<i>Load Aggregation Effect in Power Grid</i> , pp. 5793-5798.			
Jonckheere, Edmond	Univ. of Southern California		
Shalafeh, Laith	Univ. of Southern California		
11:20-11:40	WeA19.5		
<i>On Resilience Analysis and Quantification for Wide-Area Control of Power Systems</i> (I), pp. 5799-5804.			
Lu, Yueyun	The Ohio State Univ		
Chang, Chin-Yao	The Ohio State Univ		
Zhang, Wei	The Ohio State Univ		
Marinovici, Laurentiu Dan	Pacific Northwest National Lab		
Conejo, Antonio	The Ohio State Univ		
11:40-12:00	WeA19.6		
<i>A Cooperative Game for the Realized Profit of an Aggregation of Renewable Energy Producers</i> , pp. 5805-5812.			
Chakraborty, Pratyush	Univ. of Florida		
Baeyens, Enrique	Univ. of Valladolid		
Khargonekar, Pramod P.	Univ. of Florida		
Poola, Kameshwar	Univ. of California at Berkeley		
<b>WeA20</b>	Coppearleaf 1		
<b>Learning and Adaptation</b> (Regular Session)			
Chair: Herrmann, Guido	Univ. of Bristol		
Co-Chair: Dani, Ashwin P	Univ. of Connecticut		
10:00-10:20	WeA20.1		
<i>Adaptive-Critic-Based Event-Driven Nonlinear Robust State Feedback</i> (I), pp. 5813-5818.			
Wang, Ding	Chinese Acad. of Sciences		
Mu, Chaoxu	Univ. of Rhode Island		
He, Haibo	Univ. of Rhode Island		
Derong, Liu	State Key Lab. of Management and Control for Complex Syste		
10:20-10:40	WeA20.2		
<i>Actor-Critic Reinforcement Learning for Tracking Control in Robotics</i> (I), pp. 5819-5826.			
Pane, Yudha Prawira	KU Leuven		
Nageshrao, Subramanya P.	TU Delft		
Babuska, R.	Delft Univ. of Tech		
10:40-11:00	WeA20.3		
<i>Approximate Optimal Distributed Control of Uncertain Nonlinear Interconnected Systems with Event-Sampled Feedback</i> (I), pp. 5827-5832.			
<b>WeA21</b>	Coppearleaf 2		
<b>Stochastic Analysis and Design Methods in Biological Systems</b> (Invited Session)			
Chair: Borri, Alessandro	IASI-CNR		
Co-Chair: Del Vecchio, Domitilla	Massachusetts Inst. of Tech		
Organizer: Singh, Abhyudai	Univ. of Delaware		
Organizer: Del Vecchio, Domitilla	Massachusetts Inst. of Tech		
10:00-10:20	WeA21.1		
<i>Noise Reduction for Enzymatic Reactions: A Case Study for Stochastic Product Clearance</i> (I), pp. 5851-5856.			
Borri, Alessandro	IASI-CNR		
Palumbo, Pasquale	IASI-CNR		
Singh, Abhyudai	Univ. of Delaware		
10:20-10:40	WeA21.2		
<i>A Diagram Technique for Cumulant Equations in Biomolecular Reaction Networks with Mass-Action Kinetics</i> (I), pp. 5857-5862.			
Bronstein, Leo	Tech. Univ. Darmstadt		
Koepll, Heinz	Tech. Univ. Darmstadt		
10:40-11:00	WeA21.3		
<i>Stochastic Hybrid Systems Approach to Modeling Dynamics of Cell Size</i> (I), pp. 5863-5868.			
Vargas-Garcia, Cesar A.	Univ. of Delaware		
Soltani, Mohammad	Univ. of Delaware		
Singh, Abhyudai	Univ. of Delaware		
11:00-11:20	WeA21.4		
<i>A Molecular Implementation of the Least Mean Squares Estimator</i> (I), pp. 5869-5874.			
Zechner, Christoph	ETH Zuerich		
Khammash, Mustafa H.	ETH Zurich		
11:20-11:40	WeA21.5		
<i>Model Order Reduction for Linear Noise Approximation Using Time-Scale Separation</i> (I), pp. 5875-5880.			

Herath, Narmada Del Vecchio, Domitilla	Massachusetts Inst. of Tech Massachusetts Inst. of Tech	WeA21.6	Juniper 4
11:40-12:00		WeA21.6	
<i>Optimizing Phage <math>\lambda</math> Survival in a Changing Environment: Stochastic Model Predictions</i> , pp. 5881-5887.			
Conway, Jessica M. Dennehy, John J Singh, Abhyudai	Pennsylvania State Univ Queens Coll. and the Graduate Center CUNY Univ. of Delaware		
<b>WeA22</b>	Coppearleaf 3		
<b>Sensor Networks (Regular Session)</b>			
Chair: Akyol, Emrah	Univ. of Illinois at Urbana-Champaign		
Co-Chair: Chong, Michelle S.	Lund Univ		
10:00-10:20	WeA22.1		WeB01.1
<i>Self-Rating in a Community of Peers</i> , pp. 5888-5893.			
Li, Wenjie Bassi, Francesca Galluccio, Laura Kieffer, Michel	Lab. Des Signaux Et Systemes, CNRS-CentraleSupelec-Univ ESME-Sudria and L2S (UMR CNRS 8506) CNRS-CentraleSupelec-Univ Univ. Di Catania CNRS-Supelec	Michieletto, Giulia Cenedese, Angelo Franchi, Antonio	Univ. of Padova Univ. of Padova LAAS-CNRS
10:20-10:40	WeA22.2		WeB01.2
<i>Efficient Graph-Based Informative Path Planning Using Cross Entropy</i> , pp. 5894-5899.			
Suh, Junghun Cho, Kyunghoon Oh, Songhwai	Seoul National Univ Seoul National Univ Seoul National Univ	Kim, Jihan Park, Gyunghoon Shim, Hyungbo Eun, Yongsoon	Seoul National Univ Seoul National Univ Seoul National Univ DGIST
10:40-11:00	WeA22.3		WeB01.3
<i>On Remote Estimation with Communication Scheduling and Power Allocation</i> , pp. 5900-5905.			
Gao, Xiaobin Akyol, Emrah Basar, Tamer	Univ. of Illinois, Urbana-Champaign Univ. of Illinois at Urbana-Champaign Univ. of Illinois, Urbana-Champaign	Wakaiki, Masashi Ogura, Masaki Hespanha, Joao P.	Chiba Univ Univ. of Pennsylvania Univ. of California, Santa Barbara
11:00-11:20	WeA22.4		WeB01.4
<i>Characterising the Vulnerability of Linear Control Systems under Sensor Attacks Using a System's Security Index</i> , pp. 5906-5911.			
Chong, Michelle S. Kuijper, Margreta	Lund Univ Univ. of Melbourne	Khina, Anatoly Pettersson, Gustav M. Kostina, Victoria Hassibi, Babak	California Inst. of Tech KTH Royal Inst. of Tech California Inst. of Tech Caltech
11:20-11:40	WeA22.5		WeB01.5
<i>Distributed Partitioning Strategies with Visual Optimization for Camera Network Perimeter Patrolling</i> , pp. 5912-5917.			
Belgioioso, Giuseppe Cenedese, Angelo Michieletto, Giulia	Eindhoven Univ. of Tech Univ. of Padova Univ. of Padova	Heijmans, Stefan H. J. Postoyan, Romain Noroozi, Navid Nesic, Dragan Heemels, W.P.M.H.	Eindhoven Univ. of Tech CNRS-CRAN Sheikh Bahaei Univ Univ. of Melbourne Eindhoven Univ. of Tech
11:40-12:00	WeA22.6		WeB01.6
<i>Environmental Estimation with Distributed Finite Element Agents</i> , pp. 5918-5924.			
Elwin, Matthew L. Freeman, Randy Lynch, Kevin M.	Northwestern Univ Northwestern Univ Northwestern Univ	Xue, Dong	Tech. Univ. München
<b>WeA23</b>			Starvine 2
<b>Teaching Control Theory in High School (Tutorial Session)</b>			
Chair: Doyle, John C. Organizer: Doyle, John C.	California Inst. of Tech Caltech		
10:00-12:00	WeA23.1		
<i>Teaching Control Theory in High School (I)</i> , pp. 5925-5949.			
Doyle, John C.	California Inst. of Tech		
<b>WeB01</b>			Starvine 1
<b>Networked Control Systems IV (Regular Session)</b>			
Chair: Hespanha, Joao P. Co-Chair: Cenedese, Angelo	Univ. of California, Santa Barbara Univ. of Padova		
13:30-13:50	WeB01.1		
<i>Bearing Rigidity Theory in SE(3)</i> , pp. 5950-5955.			
Michieletto, Giulia Cenedese, Angelo Franchi, Antonio	Univ. of Padova Univ. of Padova LAAS-CNRS		
13:50-14:10	WeB01.2		
<i>Zero-Stealthy Attack for Sampled-Data Control Systems: The Case of Faster Actuation Than Sensing</i> , pp. 5956-5961.			
Kim, Jihan Park, Gyunghoon Shim, Hyungbo Eun, Yongsoon	Seoul National Univ Seoul National Univ Seoul National Univ DGIST		
14:10-14:30	WeB01.3		
<i>Robust Stability under Asynchronous Sensing and Control</i> , pp. 5962-5967.			
Wakaiki, Masashi Ogura, Masaki Hespanha, Joao P.	Chiba Univ Univ. of Pennsylvania Univ. of California, Santa Barbara		
14:30-14:50	WeB01.4		
<i>Multi-Rate Control Over AWGN Channels Via Analog Joint Source-Channel Coding</i> , pp. 5968-5973.			
Khina, Anatoly Pettersson, Gustav M. Kostina, Victoria Hassibi, Babak	California Inst. of Tech KTH Royal Inst. of Tech California Inst. of Tech Caltech		
14:50-15:10	WeB01.5		
<i>Stability Analysis of Networked Control Systems with Direct-Feedthrough Terms: Part II - the Linear Case</i> , pp. 5974-5979.			
Heijmans, Stefan H. J. Postoyan, Romain Noroozi, Navid Nesic, Dragan Heemels, W.P.M.H.	Eindhoven Univ. of Tech CNRS-CRAN Sheikh Bahaei Univ Univ. of Melbourne Eindhoven Univ. of Tech		
15:10-15:30	WeB01.6		
<i>Conservation-Dissipation Structure of Linear Stochastic Systems</i> , pp. 5980-5985.			
Xue, Dong	Tech. Univ. München		
<b>WeB02</b>			Starvine 2
<b>Autonomous Robots II (Regular Session)</b>			
Chair: Smith, Stephen L. Co-Chair: Mitchell, Ian M.	Univ. of Waterloo Univ. of British Columbia		

13:30-13:50	WeB02.1	Deakin Univ
<i>Path Planning Using Positive Invariant Sets</i> , pp. 5986-5991.		
Danielson, Claus	Mitsubishi Electric Res. Labs	
Weiss, Avishai	Mitsubishi Electric Res. Labs	
Berntorp, Karl	Mitsubishi Electric Res. Labs	
Di Cairano, Stefano	Mitsubishi Electric Res. Labs	
13:50-14:10	WeB02.2	
<i>Y6 Tricopter Autonomous Evacuation in an Indoor Environment Using Q-Learning Algorithm</i> , pp. 5992-5997.		
Sarabakha, Andriy	Nanyang Tech. Univ	
Kayacan, Erdal	Nanyang Tech. Univ	
14:10-14:30	WeB02.3	
<i>Nonlinear Model Predictive Control for Trajectory Tracking of an AUV: A Distributed Implementation</i> , pp. 5998-6003.		
Shen, Chao	Univ. of Victoria	
Shi, Yang	Univ. of Victoria	
Buckham, Brad	Univ. of Victoria	
14:30-14:50	WeB02.4	
<i>Orthogonal Vector Field-Based Control for a Multi-Robot System Circumnavigating a Moving Target in 3D</i> , pp. 6004-6009.		
Miao, Zhiqiang	Hunan Univ	
Thakur, Divya	Air Force Res. Lab	
Erwin, Richard Scott	Air Force Res. Lab	
Pierre, Jean	Air Force Res. Lab	
Wang, Yaonan	Hunan Univ	
Fierro, Rafael	Univ. of New Mexico	
14:50-15:10	WeB02.5	
<i>On Efficient Computation of Shortest Dubins Paths through Three Consecutive Points</i> , pp. 6010-6015.		
Sadeghi Yengejeh, Armin	Univ. of Waterloo	
Smith, Stephen L.	Univ. of Waterloo	
15:10-15:30	WeB02.6	
<i>Improved Action and Path Synthesis Using Gradient Sampling</i> , pp. 6016-6023.		
Traft, Neil	Univ. of British Columbia	
Mitchell, Ian M.	Univ. of British Columbia	
<b>WeB03</b>		Starvine 3
<b>Decentralized Control I (Regular Session)</b>		
Chair: Zemouche, Ali	Univ. of Lorraine	
Co-Chair: Yuksel, Serdar	Queen&apos;s Univ	
13:30-13:50	WeB03.1	
<i>Optimal Local and Remote Controllers with Unreliable Communication</i> , pp. 6024-6029.		
Ouyang, Yi	Univ. of Southern California	
Asghari, Seyed Mohammad	Univ. of Southern California	
Nayyar, Ashutosh	Univ. of Southern California	
13:50-14:10	WeB03.2	
<i>New Decentralized Control Design for Interconnected Nonlinear Discrete-Time Systems with Nonlinear Interconnections</i> , pp. 6030-6035.		
Kheloufi, Houria	Univ. of Mouloud Mammeri	
Cherifa, Bennani	Univ. of Tizi-Ouzou	
Zemouche, Ali	Univ. of Lorraine	
Bedouhene, Fazia	Univ. of Mouloud Mammeri, Tizi-Ouzou	
Trinh, Hieu		
14:10-14:30	WeB03.3	
<i>A Decentralized Second-Order Method for Dynamic Optimization</i> , pp. 6036-6043.		
Mokhtari, Aryan	Univ. of Pennsylvania	
Shi, Wei	Boston Univ	
Ling, Qing	Michigan Tech. Univ	
Ribeiro, Alejandro	Univ. of Pennsylvania	
14:30-14:50	WeB03.4	
<i>On Decentralized Convex Optimization in a Multi-Agent Setting with Separable Constraints and Its Application to Optimal Charging of Electric Vehicles (I)</i> , pp. 6044-6049.		
Deori, Luca	Pol. Di Milano	
Margellos, Kostas	Univ. of Oxford	
Prandini, Maria	Pol. Di Milano	
14:50-15:10	WeB03.5	
<i>Convex Analysis in Decentralized Stochastic Control and Strategic Measures</i> , pp. 6050-6055.		
Yuksel, Serdar	Queen&apos;s Univ	
Saldi, Naci	Univ. of Illinois at Urbana-Champaign	
15:10-15:30	WeB03.6	
<i>Mean Field Social Control with Decentralized Strategies and Optimality Characterization</i> , pp. 6056-6061.		
Sen, Nevroz	Harvard Univ	
Huang, Minyi	Carleton Univ	
Malhame, Roland P.	Ec. Pol. De Montreal	
<b>WeB04</b>		Starvine 4
<b>Distributed Control II (Regular Session)</b>		
Chair: Kulcsar, Balazs	Chalmers Univ. of Tech	
Co-Chair: Yu, Changbin (Brad)	The Australian National Univ	
13:30-13:50	WeB04.1	
<i>Efficient and Dynamic Double Auctions for Resource Allocation</i> , pp. 6062-6067.		
Zou, Suli	Beijing Inst. of Tech	
Ma, Zhongjing	Beijing Inst. of Tech	
Shao, Yunfeng	State Grid Lvliang Power Supply Company	
Ran, Long	Beijing Inst. of Tech	
Liu, Xiangdong	Beijing Inst. of Tech	
13:50-14:10	WeB04.2	
<i>Distributed MPC with Time-Varying Communication Network: A Density-Dependent Population Games Approach</i> , pp. 6068-6073.		
Barreiro-Gomez, Julian	Univ. De Los Andes - Univ. Pol. De Catalunya	
Quijano, Nicanor	Univ. De Los Andes	
Ocampo-Martinez, Carlos	Tech. Univ. of Catalonia (UPC)	
14:10-14:30	WeB04.3	
<i>Event-Based Distributed Control of Dynamically Coupled and Constrained Linear Systems</i> , pp. 6074-6079.		
Watkins, Benjamin	Univ. of Kaiserslautern	
Berkel, Felix	Univ. of Kaiserslautern	
Al-Areqi, Sanad	Univ. of Kaiserslautern	
Liu, Steven	Univ. of Kaiserslautern	
14:30-14:50	WeB04.4	

<i>Distributed Dynamic Output Feedback Control for Discrete-Time Linear Parameter Varying Systems</i> , pp. 6080-6085.	Lygeros, John	ETH Zurich
Dabiri, Azita Kulcsar, Balazs	Chalmers Univ. of Tech Chalmers Univ. of Tech	WeB05.6
14:50-15:10	WeB04.5	
<i>Robust Finite-Time Consensus Tracking for Second-Order Multi-Agent Systems with Reduced Communication</i> , pp. 6086-6091.		
Fu, Junjie Wang, Qi Wang, Jinzhi	Peking Univ Peking Univ Peking Univ	
15:10-15:30	WeB04.6	
<i>On the Connectivity of 2-Hop Neighbor Graph</i> , pp. 6092-6097.		
Hou, Yun Yu, Changbin (Brad) Qin, Jiahua	The Australian National Univ The Australian National Univ Univ. of Science and Tech. of China	
<b>WeB05</b>	Starvine 5	
<b>Distributed Control for Large-Populations of Rational Agents I</b> (Invited Session)		
Chair: Parise, Francesca Co-Chair: Le Ny, Jerome Organizer: Parise, Francesca Organizer: Nedich, Angelia Organizer: Bauso, Dario Organizer: Lygeros, John	ETH Zurich Pol. Montreal ETH Zurich Arizona State Univ The Univ. of Sheffield ETH Zurich	
13:30-13:50	WeB05.1	
<i>A Dynamic Collective Choice Model with an Advertiser</i> (I), pp. 6098-6104.		
Salhab, Rabih Malhamé, Roland P. Le Ny, Jerome	Ec. Pol. De Montreal Ec. Pol. De Montreal Pol. Montreal	
13:50-14:10	WeB05.2	
<i>Mean Field Game Theory for Agents with Individual-State Partial Observations</i> (I), pp. 6105-6110.		
Sen, Nevroz Caines, Peter E.	Harvard Univ McGill Univ	
14:10-14:30	WeB05.3	
<i>Distributed Nash Equilibrium Seeking by Gossip in Games on Graphs</i> (I), pp. 6111-6116.		
Salehisadaghiani, Farzad Pavel, Lacra	Univ. of Toronto Univ. of Toronto	
14:30-14:50	WeB05.4	
<i>The Importance of Budget in Efficient Utility Design</i> (I), pp. 6117-6122.		
Phillips, Matthew Shalaby, Yasmin Marden, Jason R.	Univ. of Colorado at Boulder Univ. of Colorado at Boulder Univ. of California, Santa Barbara	
14:50-15:10	WeB05.5	
<i>Distributed Computation of Generalized Nash Equilibria in Quadratic Aggregative Games with Affine Coupling Constraints</i> (I), pp. 6123-6128.		
Paccagnan, Dario Gentile, Basilio Parise, Francesca Kamgarpour, Maryam	ETH Zurich ETH Zürich ETH Zurich Swiss Federal Inst. of Tech	
15:10-15:30	WeB05.6	
<i>Passivity Analysis of Higher Order Evolutionary Dynamics and Population Games</i> (I), pp. 6129-6134.		
Mabrok, Mohamed Shamma, Jeff S.	King Abdullah Univ. of Science and Tech. (KAUST) KAUST	
<b>WeB06</b>	Starvine 6	
<b>Game Theory II</b> (Regular Session)		
Chair: Ratliff, Lillian J. Co-Chair: Li, Na	Univ. of Washington Harvard Univ	
13:30-13:50	WeB06.1	
<i>Development of a Visibility Augmented Proportional Navigation Guidance: A Game-Theoretic Approach</i> , pp. 6135-6140.		
Tardioli, Luca Franzini, Giovanni Pollini, Lorenzo Innocenti, Mario	Univ. of Pisa Univ. of Pisa Univ. of Pisa Univ. of Pisa	
13:50-14:10	WeB06.2	
<i>An Incentive-Based Approach to Distributed Estimation with Strategic Sensors</i> , pp. 6141-6146.		
Ghavidel Dobakhshari, Donya Li, Na Gupta, Vijay	Univ. of Notre Dame Harvard Univ Univ. of Notre Dame	
14:10-14:30	WeB06.3	
<i>Strategic Control of a Tracking System</i> , pp. 6147-6153.		
Sayin, Muhammed Omer Akyol, Emrah Basar, Tamer	Univ. of Illinois at Urbana-Champaign Univ. of Illinois at Urbana-Champaign Univ. of Illinois, Urbana-Champaign	
14:30-14:50	WeB06.4	
<i>Game-Theoretic and Risk-Sensitive Stochastic Optimal Control Via Forward and Backward Stochastic Differential Equations</i> , pp. 6154-6160.		
Exarchos, Ioannis Theodorou, Evangelos A. Tsiotras, Panagiotis	Georgia Inst. of Tech Georgia Inst. of Tech Georgia Inst. of Tech	
14:50-15:10	WeB06.5	
<i>Decentralized Sufficient and Necessary Optimality Conditions for Cooperative Stochastic Differential Decision Problems</i> , pp. 6161-6166.		
Charalambous, Charalambos D.	Univ. of Cyprus	
15:10-15:30	WeB06.6	
<i>Stochastic Game Theoretic Trajectory Optimization in Continuous Time</i> , pp. 6167-6172.		
Sun, Wei Theodorou, Evangelos A. Tsiotras, Panagiotis	Georgia Inst. of Tech Georgia Inst. of Tech Georgia Inst. of Tech	
<b>WeB07</b>	Starvine 7	
<b>Optimization II</b> (Regular Session)		
Chair: Lagoa, Constantino M.	Pennsylvania State Univ	

Co-Chair: Zare, Armin	Univ. of Minnesota	Herzen State Pedagogical Univ St. Petersburg State Univ Saint Petersburg State Univ
13:30-13:50	WeB07.1	WeB08.4
<i>Online Optimal Gait Generation for Bipedal Walking Robots Using Legendre Pseudospectral Optimization</i> , pp. 6173-6179.		
Hereid, Ayonga	Georgia Inst. of Tech	
Kolathaya, Shishir	Georgia Inst. of Tech	
Ames, Aaron D.	Georgia Inst. of Tech	
13:50-14:10	WeB07.2	WeB08.5
<i>Data-Driven Robust MILP Model for Scheduling of Multipurpose Batch Processes under Uncertainty</i> , pp. 6180-6185.		
Ning, Chao	Northwestern Univ	Cornell Univ
You, Fengqi	Cornell Univ	Cornell Univ
14:10-14:30	WeB07.3	WeB08.6
<i>Stochastic Subgradient Methods with Approximate Lagrange Multipliers</i> , pp. 6186-6191.		
Valls, Victor	Trinity Coll. Dublin	Masachusetts Inst. of Tech
Leith, Douglas J.	NUI Maynooth	Massachusetts Inst. of Tech
14:30-14:50	WeB07.4	Starvine 9
<i>Semidefinite Relaxation of a Class of Quadratic Integral Inequalities</i> , pp. 6192-6197.		
Fantuzzi, Giovanni	Imperial Coll. London	
Wynn, Andrew	Imperial Coll. London	
14:50-15:10	WeB07.5	
<i>Self-Dual Approximations to Fully Convex Impulsive Systems</i> , pp. 6198-6203.		
Hermosilla, Christopher	Louisiana State Univ	
Wolenski, Peter R.	Louisiana State Univ	
15:10-15:30	WeB07.6	
<i>Convex Chance Constrained Model Predictive Control</i> , pp. 6204-6209.		
M. Jasour, Ashkan	The Pennsylvania State Univ	
Lagoa, Constantino M.	Pennsylvania State Univ	
<b>WeB08</b>	Starvine 8	
<b>Randomized Algorithms</b> (Regular Session)		
Chair: Bitar, Eilyan	Cornell Univ	
Co-Chair: Calafiore, Giuseppe C.	Pol. Di Torino	
13:30-13:50	WeB08.1	WeB09.1
<i>Random Convex Approximations of Ambiguous Chance Constrained Programs</i> , pp. 6210-6215.		
Tseng, Shih-Hao	Cornell Univ	
Bitar, Eilyan	Cornell Univ	
Tang, A. Kevin	Cornell Univ	
13:50-14:10	WeB08.2	WeB09.2
<i>A Randomised Approach to Multiple Chance-Constrained Problems: An Application to Flood Avoidance</i> , pp. 6216-6221.		
Nasir, Hasan	The Univ. of Melbourne	
Caré, Algo	Hungarian Acad. of Sciences (MTA), Budapest	
Weyer, Erik	Univ. of Melbourne	
14:10-14:30	WeB08.3	WeB09.3
<i>Randomized Algorithms with Adaptive Tuning of Parameters for Detecting Communities in Graphs</i> , pp. 6222-6227.		
Amelina, Natalia	Saint Petersburg State Univ	
Granichin, Oleg	Saint Petersburg State Univ	
14:30-14:50	WeB08.4	WeB09.4
<i>Relative Attitude Observers for Three-Platform Formations with Inertial Spread Observations</i> , pp. 6266-6271.		
Batista, Pedro	IST-ID - Associação Do Inst. Superior Técnico Para a Investi	
Silvestre, Carlos	Univ. of Macau	
Oliveira, Paulo	Inst. Superior Técnico	
14:50-15:10	WeB08.5	WeB09.5
<i>Observer Design for Boolean Control Networks</i> , pp. 6272-6277.		
Zhang, Zhihua	Univ. of Kaiserslautern	
Leifeld, Thomas	Univ. of Kaiserslautern	

Zhang, Ping	Univ. of Kaiserslautern	Starvine 11
15:10-15:30	WeB09.6	
<i>On the Enhancement of High-Gain Observers for State Estimation of Nonlinear Systems</i> , pp. 6278-6283.		
Alessandri, Angelo	Univ. of Genoa	Univ. of Illinois, Urbana-Champaign
Zemouche, Ali	Univ. of Lorraine	Univ. of Illinois at Urbana-Champaign
<b>WeB10</b>	Starvine 10	
<b>Kalman Filtering (Regular Session)</b>		
Chair: Isaacs, Jason T.	California State Univ. Channel Islands	Univ. of Illinois, Urbana-Champaign
Co-Chair: Shi, Ling	Hong Kong Univ. of Science and Tech	Boston Univ
13:30-13:50	WeB10.1	WeB11.1
<i>Local Carrier-Based Precision Approach and Landing System</i> , pp. 6284-6290.		<i>Distributed Learning with Infinitely Many Hypotheses</i> , pp. 6321-6326.
Isaacs, Jason T.	California State Univ. Channel Islands	Univ. of Illinois at Urbana-Champaign
Ezal, Kenan O.	Toyon Res. Corp	Univ. of California, Berkeley
Hespanha, Joao P.	Univ. of California, Santa Barbara	UC Berkeley
13:50-14:10	WeB10.2	Univ. of Washington
<i>Stochastic Detector against Linear Deception Attacks on Remote State Estimation (I)</i> , pp. 6291-6296.		Univ. of California at Berkeley
Li, Yuzhe	Univ. of Alberta	Univ. of California at Berkeley
Chen, Tongwen	Univ. of Alberta	Univ. of California at Berkeley
14:10-14:30	WeB10.3	Univ. of Berkeley
<i>A Secure Cross-Layer Design for Remote Estimation under DoS Attack (I)</i> , pp. 6297-6302.		UC Berkeley
Ding, Kemi	Hong Kong Univ. of Science and Tech	TONGJI Univ
Quevedo, Daniel E.	Paderborn Univ	Tongji Univ
Dey, Subhrakanti	Uppsala Univ	Tongji Univ
Shi, Ling	Hong Kong Univ. of Science and Tech	Tongji Univ
14:30-14:50	WeB10.4	Tongji Univ
<i>Worst-Case Analysis of Innovation-Based Linear Attack on Remote State Estimation with Resource Constraint</i> , pp. 6303-6308.		Tongji Univ
Guo, Ziyang	Hong Kong Univ. of Science and Tech	Tongji Univ
Shi, Dawei	Beijing Inst. of Tech	Tongji Univ
Johansson, Karl H.	Royal Inst. of Tech	Tongji Univ
Shi, Ling	Hong Kong Univ. of Science and Tech	Tongji Univ
14:50-15:10	WeB10.5	Tongji Univ
<i>On Distributed Optimal Kalman-Bucy Filtering by Averaging Dynamics of Heterogeneous Agents</i> , pp. 6309-6314.		Tongji Univ
Kim, Jaeyong	Seoul National Univ	Tongji Univ
Shim, Hyungbo	Seoul National Univ	Tongji Univ
Wu, Jingbo	Univ. of Stuttgart	Tongji Univ
15:10-15:30	WeB10.6	WeB11.6
<i>Stochastic Sensor Scheduling for Multiple Dynamical Processes Over a Shared Channel (I)</i> , pp. 6315-6320.		<i>Equilibrium Distributions and Stability Analysis of Gaussian Process State Space Models</i> , pp. 6355-6361.
Han, Duo	Nanyang Tech. Univ	Tech. Univ. of Munich
Wu, Junfeng	Royal Inst. of Tech. (KTH)	Tech. Univ. München
Mo, Yilin	Nanyang Tech. Univ	
Xie, Lihua	Nanyang Tech. Univ	
<b>WeB12</b>	Starvine 12	
<b>Switched Systems I (Regular Session)</b>		
Chair: Danielson, Claus	Mitsubishi Electric Res. Labs	
Co-Chair: Suyama, Koichi	Tokyo Univ. of Marine Science & Tech	
13:30-13:50	WeB12.1	
<i>Safety and Invariance for Constrained Switching Systems</i> , pp. 6362-6367.		
Athanasiopoulos, Nikolaos	Univ. Catholique De Louvain	
Smpoukis, Konstantinos	Univ. of Patras	
Jungers, Raphaël M.	Univ. of Louvain	
13:50-14:10	WeB12.2	

<i>Composing Limit Cycles for Motion Planning of 3D Bipedal Walkers</i> , pp. 6368-6374.		WeB13.4
Shafiee Motahar, Mohamad Veer, Sushant Poulakakis, Ioannis	Univ. of Delaware Univ. of Delaware Univ. of Delaware	
14:10-14:30	WeB12.3	
<i>Direct Adaptive-Q Control for Online Performance Enhancement of Switching Linear Systems</i> , pp. 6375-6381.		
Friedrich, Stefan Roland Buss, Martin	Tech. Univ. Muenchen Tech. Univ. Muenchen	
14:30-14:50	WeB12.4	
<i>Reliable Finite-Time <math>H_{\infty}</math> Filtering for Switched Linear Systems with Persistent Dwell-Time</i> , pp. 6382-6387.		
Zhang, Lixian Basin, Michael Wang, Shun  Xiao, Zhen  Zeng, Ming	Harbin Inst. of Tech Autonomous Univ. of Nuevo Leon Science and Tech. on Space Physics Lab Science and Tech. on Space Physics Lab Harbin Inst. of Tech	
14:50-15:10	WeB12.5	
<i>An Interval Analysis Approach to Invariance Control Synthesis for Discrete-Time Switched Nonlinear Systems</i> , pp. 6388-6394.		
Li, Yinan Liu, Jun	Univ. of Waterloo Univ. of Waterloo	
15:10-15:30	WeB12.6	
<i>Switching L2 Gain for Analyzing the Magnitude of a System Switch</i> , pp. 6395-6402.		
Suyama, Koichi Sebe, Noboru	Tokyo Univ. of Marine Science & Tech Kyushu Inst. of Tech	
<b>WeB13</b>	Starvine 13	
<b>Stability of Nonlinear Systems II (Regular Session)</b>		
Chair: Liu, Zhitao Co-Chair: Solis-Daun, Julio	Zhejiang Univ Univ. Autonoma Metropolitana-Iztapalapa	
13:30-13:50	WeB13.1	
<i>On the New Notion of Input-To-State Safety</i> , pp. 6403-6409.		
Romdlony, Muhammad Zakiullah Jayawardhana, Bayu	Univ. of Groningen Univ. of Groningen	
13:50-14:10	WeB13.2	
<i>Towards a Constructive Interconnection and Damping Assignment Stabilization Methodology</i> , pp. 6410-6415.		
Zhang, Meng Ortega, Romeo Liu, Zhitao Su, Hongye Cai, Jianping	Zhejiang Univ LSS-SUPELEC Zhejiang Univ Zhejiang Univ Zhejiang Univ. of Water Res. and Electric Power	
14:10-14:30	WeB13.3	
<i>Lyapunov Descriptions of Robust Output Stability for Systems with Delays</i> , pp. 6416-6421.		
Gallolu Kankamalamage, Hasala Senpathy Wang, Yuan	Florida Atlantic Univ Florida Atlantic Univ	
14:30-14:50	WeB13.4	
<i>Results on Optimal Stabilization of a Continuum of Equilibria</i> , pp. 6422-6426.		
Goebel, Rafal	Loyola Univ. Chicago	
14:50-15:10	WeB13.5	
<i>Cascade Control for Compliant Joint Robots with Redundant Position Sensors</i> , pp. 6427-6433.		
Huang, Yuan Can Li, Zeguo Duan, Xinguang	Beijing Inst. of Tech Beijing Inst. of Tech Beijing Inst. of Tech	
15:10-15:30	WeB13.6	
<i>Global CLF Stabilization of Systems Allowing the Null-Control Input in the Boundary of Compact Control Value Sets: An Approximation Approach (I)</i> , pp. 6434-6439.		
Solis-Daun, Julio	Univ. Autonoma Metropolitana-Iztapalapa	
<b>WeB14</b>	Ironwood 1	
<b>Sliding-Mode Control I (Regular Session)</b>		
Chair: Edwards, Christopher Co-Chair: Berman, Spring	Univ. of Exeter Arizona State Univ	
13:30-13:50	WeB14.1	
<i>Continuous Fixed-Time Control for Cart Inverted Pendulum Stabilization</i> , pp. 6440-6445.		
Basin, Michael Rodriguez-Ramirez, Pablo Cesar Ding, Steven X. Daszenies, Tim Shtessel, Yuri	Autonomous Univ. of Nuevo Leon Autonomous Univ. of Nuevo Leon Univ. of Duisburg-Essen Univ. of Duisburg-Essen Univ. of Alabama at Huntsville	
13:50-14:10	WeB14.2	
<i>Predictive Oceanic Features Tracking with Formations of Autonomous Vehicles</i> , pp. 6446-6451.		
Mellucci, Chiara Menon, Prathyush P Edwards, Christopher	Univ. of Exeter Univ. of Exeter Univ. of Exeter	
14:10-14:30	WeB14.3	
<i>Decentralised Sliding Mode Control for Nonlinear Interconnected Systems in the Regular Form</i> , pp. 6452-6457.		
Mu, Jianqiu Yan, Xing-Gang Spurgeon, Sarah K. Mao, Zehui	Univ. of Kent Univ. of Kent Univ. Coll. London Nanjing Univ. of Aeronautics and Astronautics	
14:30-14:50	WeB14.4	
<i>On the Discrete-Time Modeling and Control of Synchronous Generators by Means of Variational Integrators and Sliding Modes</i> , pp. 6458-6463.		
Zapata-Zuluaga, Cristian Camilo Loukianov, Alexander G. Canedo, Jose M. Rivera, Jorge	CINVESTAV IPN Unidad GDL CINVESTAV IPN Unidad GDL CINVESTAV Cátedras Conacyt En Cinvestav Guadalajara	
14:50-15:10	WeB14.5	
<i>Strategies for Control, Fault Detection and Isolation Via Sliding Mode Techniques for a 3-DOF Helicopter</i> , pp. 6464-6469.		

Capello, Elisa Punta, Elisabetta Fridman, Leonid	Pol. Di Torino, CNR-IEIIT CNR-IEIIT, Pol. Di Torino National Autonomous Univ. of Mexico	WeB16.1
15:10-15:30	WeB14.6	
<i>Robust Fault Detection for Positive Systems</i> , pp. 6470-6476.		
Shafai, Bahram Oghbaee, Amirreza Nazari, Sam	Northeastern Univ Northeastern Univ Northeastern Univ	
<b>WeB15</b>	Ironwood 2	
<b>Koopman Operator Techniques for Decision and Control (Invited Session)</b>		
Chair: Mauroy, Alexandre Co-Chair: Susuki, Yoshihiko Organizer: Mauroy, Alexandre Organizer: Susuki, Yoshihiko Organizer: Mezic, Igor	Univ. of Luxembourg Osaka Prefecture Univ Univ. of Luxembourg Osaka Prefecture Univ Univ. of California, Santa Barbara	
13:30-13:50	WeB15.1	
<i>An Operator-Theoretic Viewpoint to Non-Smooth Dynamical Systems: Koopman Analysis of a Hybrid Pendulum (I)</i> , pp. 6477-6484.		
Govindarajan, Nithin Tegling, Emma Mezic, Igor	Univ. of California, Santa Barbara KTH Royal Inst. of Tech Univ. of California, Santa Barbara	
13:50-14:10	WeB15.2	
<i>On Koopman and Dynamic Mode Decompositions for Application to Dynamic Data with Low Spatial Dimension (I)</i> , pp. 6485-6491.		
Raak, Fredrik Susuki, Yoshihiko Mezic, Igor Hikihara, Takashi	Kyoto Univ Osaka Prefecture Univ Univ. of California, Santa Barbara Kyoto Univ	
14:10-14:30	WeB15.3	
<i>Koopman Operator Based Observer Synthesis for Control-Affine Nonlinear Systems (I)</i> , pp. 6492-6499.		
Surana, Amit	United Tech. Res. Center	
14:30-14:50	WeB15.4	
<i>Linear Identification of Nonlinear Systems: A Lifting Technique Based on the Koopman Operator (I)</i> , pp. 6500-6505.		
Mauroy, Alexandre Goncalves, Jorge	Univ. of Luxembourg Univ. of Cambridge	
14:50-15:10	WeB15.5	
<i>Sparsity-Promoting Dynamic Mode Decomposition for Systems with Inputs (I)</i> , pp. 6506-6511.		
Annoni, Jennifer Seiler, Peter Jovanovic, Mihailo	Univ. of Minnesota Univ. of Minnesota Univ. of Minnesota	
15:10-15:30	WeB15.6	
<i>Construction of Max-Separable Lyapunov Functions for Monotone Systems Using the Koopman Operator (I)</i> , pp. 6512-6517.		
Sootla, Aivar	Univ. of Liege	
<b>WeB16</b>	Ironwood 3	
<b>Computational Methods (Regular Session)</b>		
Chair: Zhang, Fumin Co-Chair: Lavaei, Javad	Georgia Inst. of Tech UC Berkeley	
13:30-13:50	WeB16.1	
<i>Discretized Boundary Methods for Computing Smallest Forward Invariant Sets</i> , pp. 6518-6524.		
Varnell, Paul Mukhopadhyay, Shayok Zhang, Fumin	Georgia Inst. of Tech American Univ. of Sharjah Georgia Inst. of Tech	
13:50-14:10	WeB16.2	
<i>Some Problems Arising in Controller Design from Big Data Via Input-Output Methods</i> , pp. 6525-6530.		
Montenbruck, Jan Maximilian Allgöwer, Frank	Univ. of Stuttgart Univ. of Stuttgart	
14:10-14:30	WeB16.3	
<i>A Brief and Some Further Insight on the Exact Quadratization of Nonlinear Control Systems (I)</i> , pp. 6531-6536.		
Carravetta, Francesco	IASI-CNR	
14:30-14:50	WeB16.4	
<i>An Adaptive K -Opt Method for Solving Traveling Salesman Problem</i> , pp. 6537-6543.		
Ma, Zhibei Liu, Lantao Sukhatme, Gaurav	1992 Univ. of Southern California USC	
14:50-15:10	WeB16.5	
<i>Characterization of Rank-Constrained Feasibility Problems Via a Finite Number of Convex Programs</i> , pp. 6544-6550.		
Ashraphijuo, Morteza Madani, Ramtin Lavaei, Javad	Univ. of California, Berkeley The Univ. of Texas at Arlington UC Berkeley	
15:10-15:30	WeB16.6	
<i>Implicit Numerical Integration for the Simulation and Control of a Non-Smooth System with Resets</i> , pp. 6551-6556.		
Huber, Olivier Oza, Harshal B.	UW-Madison Ahmedabad Univ	
<b>WeB17</b>	Ironwood 6	
<b>Formal Verification/Synthesis II (Regular Session)</b>		
Chair: Kong, Zhaodan Co-Chair: Sentis, Luis	Univ. of California, Davis The Univ. of Texas at Austin	
13:30-13:50	WeB17.1	
<i>High-Level Planner Synthesis for Whole-Body Locomotion in Unstructured Environments</i> , pp. 6557-6564.		
Zhao, Ye Topcu, Ufuk Sentis, Luis	The Univ. of Texas at Austin The Univ. of Texas at Austin The Univ. of Texas at Austin	
13:50-14:10	WeB17.2	
<i>Q-Learning for Robust Satisfaction of Signal Temporal Logic Specifications</i> , pp. 6565-6570.		
Aksaray, Derya Jones, Austin Kong, Zhaodan Schwager, Mac Belta, Calin	Massachusetts Inst. of Tech Massachusetts Inst. of Tech. Lincoln Lab Univ. of California, Davis Stanford Univ Boston Univ	
14:10-14:30	WeB17.3	
<i>On Symbolic Control Design of Discrete-Time Nonlinear Systems with State Quantized Measurements</i> , pp. 6571-6576.		
Pola, Giordano	Univ. of L&apos;Aquila	

Borri, Alessandro Di Benedetto, M. Domenica	IASI-CNR Univ. of L&apos;Aquila	Tanovic, Omer Megretski, Alexandre Li, Yan Stojanovic, Vladimir Osqui, Mitra	Massachusetts Inst. of Tech Massachusetts Inst. of Tech Massachusetts Inst. of Tech Univ. of California Berkeley Massachusetts Inst. of Tech
14:30-14:50	WeB17.4	15:10-15:30	WeB18.6
<i>Model Reduction of Continuous-Time Stochastic Linear Control Systems Via Bisimulation Equivalence</i> , pp. 6577-6582.		<i>Bouncing Behaviour in the Kapitsa Pendulum</i> , pp. 6625-6630.	
Pola, Giordano Manes, Costanzo van der Schaft, Arjan Di Benedetto, M. Domenica	Univ. of L&apos;Aquila Univ. Dell&apos;aquila Univ. of Groningen Univ. of L&apos;Aquila	Gutierrez Carmona, Irandi Collado, Joaquin	Cinvestav CINVESTAV
14:50-15:10	WeB17.5		
<i>On External Behavior Equivalence of Continuous-Time Stochastic Linear Control Systems</i> , pp. 6583-6588.			
Pola, Giordano Manes, Costanzo Di Benedetto, M. Domenica	Univ. of L&apos;Aquila Univ. Dell&apos;aquila Univ. of L&apos;Aquila		
15:10-15:30	WeB17.6	13:30-13:50	WeB19.1
<i>Formal Design of Robot Integrated Task and Motion Planning</i> , pp. 6589-6594.		<i>Tractable Structure Learning in Radial Physical Flow Networks</i> , pp. 6631-6638.	
Rodrigues da Silva, Rafael Wu, Bo Lin, Hai	Univ. of Notre Dame Univ. of Notre Dame Univ. of Notre Dame	Deka, Deepjyoti Backhaus, Scott Chertkov, Michael	Los Alamos National Lab Los Alamos National Lab Los Alamos National Lab
<b>WeB18</b>	Ironwood 7	13:50-14:10	WeB19.2
<b>Modeling (Regular Session)</b>		<i>Effect of Bonus Payments in Cost Sharing Mechanism Design for Renewable Energy Aggregation</i> , pp. 6639-6644.	
Chair: Tanovic, Omer Co-Chair: De Cicco, Luca	Massachusetts Inst. of Tech Pol. Di Bari	Harirchi, Farshad Vincent, Tyrone L. Yang, Dejun	Univ. of Michigan Colorado School of Mines Colorado School of Mines
13:30-13:50	WeB18.1	14:10-14:30	WeB19.3
<i>Modeling Pointing Tasks in Mouse-Based Human-Computer Interactions</i> , pp. 6595-6600.		<i>Model and Data Analysis of Two-Settlement Electricity Market with Virtual Bidding</i> , pp. 6645-6650.	
Aranovskiy, Stanislav Ushirobira, Rosane Efimov, Denis Casiez, Géry	Inria Lille-Nord Europe Inria Lille - Nord Europe & Univ. De Bourgogne Inria Univ. Lille I	Tang, Wenyuan Rajagopal, Ram Poola, Kameshwar Varaiya, Pravin P.	Univ. of California, Berkeley Stanford Univ Univ. of California at Berkeley Univ. of California at Berkeley
13:50-14:10	WeB18.2	14:30-14:50	WeB19.4
<i>A Hybrid Model of Adaptive Video Streaming Control Systems</i> , pp. 6601-6606.		<i>Extracting Flexibility of Heterogeneous Deferrable Loads Via Polytopic Projection Approximation</i> , pp. 6651-6656.	
Cofano, Giuseppe De Cicco, Luca Mascolo, Saverio	Pol. Di Bari Pol. Di Bari Pol. Di Bari	Zhao, Lin Hao, He Zhang, Wei	The Ohio State Univ Pacific Northwest National Lab The Ohio State Univ
14:10-14:30	WeB18.3	14:50-15:10	WeB19.5
<i>On the Exploitation of Automated Planning for Efficient Decision Making in Road Traffic Accident Management</i> , pp. 6607-6612.		<i>Distributed Dynamic State Estimation Over a Lossy Communication Network with an Application to Smart Grids</i> , pp. 6657-6662.	
Chrpa, Lukas Vallati, Mauro	Univ. of Huddersfield Univ. of Huddersfield	RANA, MD Li, Li Su, Steven W.	UTS Univ. of Tech. Sydney Univ. of Tech. Sydney
14:30-14:50	WeB18.4	15:10-15:30	WeB19.6
<i>Projected Spectrahedral Cone-Invariant Realization of an LTI System with Nonnegative Impulse Response</i> , pp. 6613-6618.		<i>Residential Demand Response Targeting Using Machine Learning with Observational Data</i> , pp. 6663-6668.	
Zheng, Jianying Zhang, Yanqiong Qiu, Li	Nanyang Tech. Univ The Hong Kong Univ. of Science and Tech Hong Kong Univ. of Sci. & Tech	Zhou, Datong Paul Balandat, Maximilian Tomlin, Claire J.	Univ. of California, Berkeley Univ. of California, Berkeley UC Berkeley
14:50-15:10	WeB18.5	<b>WeB20</b>	Coppearleaf 1
<i>Discrete-Time Models Resulting from Dynamic Continuous-Time Perturbations in Phase-Amplitude Modulation-Demodulation Schemes</i> , pp. 6619-6624.		<b>Robotics I (Regular Session)</b>	
		Chair: Vela, Patricio A.	Georgia Inst. of Tech

Co-Chair: Poulakakis, Ioannis	Univ. of Delaware	
13:30-13:50	WeB20.1	
Towards Precise Control of Hoppers: Using High Order Partial Feedback Linearization to Control the Hopping Robot FRANK, pp. 6669-6675.		
Terry, Patrick	Univ. of California Santa Barbara	Zhejiang Univ
Piovan, Giulia	Univ. of California, Santa Barbara	Zhejiang Univ
Byl, Katie	Univ. of California at Santa Barbara	Zhejiang Univ
		Univ. of Kansas
13:50-14:10	WeB20.2	
Shape-Centric Modeling of Lateral Undulation and Sidewinding Gaits for Snake Robots, pp. 6676-6682.		
CHANG, ALEXANDER	GEORGIA Inst. OF Tech	Shenyang Univ. of Chemical Tech
Serrano, Miguel	Georgia Inst. of Tech	Univ. of Alberta
Vela, Patricio A.	Georgia Inst. of Tech	Chinese Acad. of Sciences
		Shenyang Inst. of Chemical Tech
14:10-14:30	WeB20.3	
Scalable Lazy SMT-Based Motion Planning, pp. 6683-6688.		
Shoukry, Yasser	UC Berkeley/UCLA	
Nuzzo, Pierluigi	Univ. of Southern California	
Saha, Indranil	Univ. of California Berkeley	
Sangiovanni-Vincentelli, Alberto L.	Univ. of California at Berkeley	
Seshia, Sanjit A.	UC Berkeley	
Pappas, George J.	Univ. of Pennsylvania	
Tabuada, Paulo	Univ. of California at Los Angeles	
14:30-14:50	WeB20.4	
Inferring and Assisting with Constraints in Shared Autonomy, pp. 6689-6696.		
Mehr, Negar	Univ. of California, Berkeley	Embry-Riddle Aeronautical Univ
Horowitz, Roberto	Univ. of California at Berkeley	Embry-Riddle Aeronautical Univ
Dragan, Anca	Univ. of California at Berkeley	Embry-Riddle Aeronautical Univ
		Embry-Riddle Aeronautical Univ
14:50-15:10	WeB21.0	
Controllability and Observability of N-Link Underactuated Planar Robot with Multiple Active Intermediate Links, pp. 6697-6702.		
Xin, Xin	Okayama Prefectural Univ	Tianjin Univ
		Ford
15:10-15:30	WeB20.6	
Softly-Actuated Swimmers in Drag-Dominant Oscillatory Flows, pp. 6703-6708.		
Jo, Ikhee	Univ. of Southern California	
Huang, Yangyang	Univ. of Southern California - Park Campus	
Zimmermann, Walter	Physikalisches Inst. LS Theoretische Physik I, Univ. Ba	
Kanso, Eva	Univ. of Southern California	
<b>WeB21</b>	Coppearleaf 2	
<b>Control Applications I</b> (Regular Session)		
Chair: Chopra, Nikhil	Univ. of Maryland, Coll. Park	
Co-Chair: Chen, Jian	Zhejiang Univ	
13:30-13:50	WeB21.1	
Confidentiality in Distributed Average Information Consensus, pp. 6709-6714.		
Gupta, Nirupam	Univ. of Maryland	
Chopra, Nikhil	Univ. of Maryland, Coll. Park	
13:50-14:10	WeB21.2	
Improved Cell Equalizing Topology for Serially Connected Lithium-Ion		
Battery Packs, pp. 6715-6720.		
Ouyang, Quan		Zhejiang Univ
Chen, Jian		Zhejiang Univ
Liu, Hao		Zhejiang Univ
Fang, Huazhen		Univ. of Kansas
14:10-14:30	WeB21.3	
State Estimation of Wastewater Treatment Processes Using Distributed Extended Kalman Filters, pp. 6721-6726.		
Zeng, Jing		Shenyang Univ. of Chemical Tech
Liu, Jinfeng		Univ. of Alberta
Zou, Tao		Chinese Acad. of Sciences
Yuan, Decheng		Shenyang Inst. of Chemical Tech
14:30-14:50	WeB21.4	
Robust Nonlinear Estimation and Control of Fluid Flow Velocity Fields, pp. 6727-6732.		
Kidambi, Krishna Bhavithavya		Embry-Riddle Aeronautical Univ
Ramos-Pedroza, Natalie		Embry-Riddle Aeronautical Univ
MacKunis, William		Embry-Riddle Aeronautical Univ
Drakunov, Sergey V.		Embry-Riddle Aeronautical Univ
15:10-15:30	WeB21.5	
A Physics-Based Control-Oriented Model for Compressor Mass Flow Rate (I), pp. 6733-6738.		
Song, Kang		Tianjin Univ
upadhyay, devesh		Ford
Sun, Harold		Ford Motor Company
Xie, Hui		Tianjin Univ
Zhu, Guoming		Michigan State Univ
15:10-15:30	WeB21.6	
Preserving Privacy of Agents in Participatory-Sensing Schemes for Traffic Estimation, pp. 6739-6744.		
Farokhi, Farhad		The Univ. of Melbourne
Shames, Iman		The Univ. of Melbroune
<b>WeB22</b>	Coppearleaf 3	
<b>Traffic Control</b> (Regular Session)		
Chair: Savla, Ketan		Univ. of Southern California
Co-Chair: Ferrara, Antonella		Univ. of Pavia
13:30-13:50	WeB22.1	
A Variable-Length Cell Road Traffic Model: Application to Ring Road Speed Limit Optimization (I), pp. 6745-6752.		
Canudas de Wit, Carlos		CNRS, GIPSA-Lab
Ferrara, Antonella		Univ. of Pavia
13:50-14:10	WeB22.2	
Back-Pressure Traffic Signal Control with Partial Routing Control (I), pp. 6753-6758.		
GREGOIRE, Jean		Mines ParisTech
Samaranayake, Samitha		Univ. of California, Berkeley
Frazzoli, Emilio		Massachusetts Inst. of Tech
14:10-14:30	WeB22.3	
Convex Optimization for Energy-Efficient Traffic Control, pp. 6759-6764.		
Zu, Yue		Iowa State Univ
Dai, Ran		Iowa State Univ
Dong, Jing		Iowa State Univ
14:30-14:50	WeB22.4	

*Model Predictive Control of Large-Scale Urban Networks Via Perimeter Control and Route Guidance Actuation*, pp. 6765-6770.

Sirmatel, Isik Ilber	Urban Transport Systems Lab. EPFL
Geroliminis, Nikolas	Urban Transport Systems Lab. EPFL

14:50-15:10 WeB22.5

*Throughput Analysis of a Horizontal Traffic Queue under Safe Car Following Models*, pp. 6771-6776.

Motie, Mohammad	Univ. of Southern California
Savla, Ketan	Univ. of Southern California

15:10-15:30 WeB22.6

*Switched Observer-Based Ramp Metering Controllers for Freeway Systems (I)*, pp. 6777-6782.

Ferrara, Antonella	Univ. of Pavia
Sacone, Simona	Univ. of Genova
Siri, Silvia	Univ. of Genova
Vivas, Carlos	Univ. De Sevilla
Rubio, Francisco R.	Univ. of Sevilla

WeB23 Juniper 4

**Distributed Learning** (Tutorial Session)

Chair: Rahimian, Mohammad Amin	Univ. of Pennsylvania
Co-Chair: Jadbabaie, Ali	MIT
Organizer: Rahimian, Mohammad Amin	Univ. of Pennsylvania
Organizer: Jadbabaie, Ali	MIT

13:30-14:10 WeB23.1

*Group Decision Making and Social Learning (I)*, pp. 6783-6794.

Rahimian, Mohammad Amin	Univ. of Pennsylvania
Jadbabaie, Ali	MIT

14:10-14:50 WeB23.2

*A Tutorial on Distributed (Non-Bayesian) Learning: Problem, Algorithms and Results (I)*, pp. 6795-6801.

Nedich, Angelia	Univ. of Illinois, Urbana-Champaign
Olshevsky, Alexander	Boston Univ
Uribe, César A.	Univ. of Illinois at Urbana-Champaign

14:50-15:30 WeB23.3

*Fast Algorithms for Distributed Optimization and Hypothesis Testing: A Tutorial (I)*, pp. 6802-6807.

Olshevsky, Alexander	Boston Univ
----------------------	-------------

WeC01 Starvine 1

**Networked Control Systems V** (Regular Session)

Chair: Lunze, Jan	Ruhr-Univ. Bochum
Co-Chair: Postoyan, Romain	CNRS-CRAN

16:00-16:20 WeC01.1

*Stabilization of Nonlinear Systems Using State-Feedback Periodic Event-Triggered Controllers*, pp. 6808-6813.

Wang, Wei	The Univ. of Melbourne
Postoyan, Romain	CNRS-CRAN
Nesic, Dragan	Univ. of Melbourne
Heemels, W.P.M.H.	Eindhoven Univ. of Tech

16:20-16:40 WeC01.2

*Time-Triggered Control of Nonlinear Discrete-Time Systems*, pp. 6814-6819.

Postoyan, Romain	CNRS-CRAN
Nesic, Dragan	Univ. of Melbourne

16:40-17:00 WeC01.3

*Stability Analysis of Networked Control Systems with Direct-Feedthrough Terms: Part I - the Nonlinear Case*, pp. 6820-6825.

Noroozی, Navid	Sheikh Bahaei Univ
Postoyan, Romain	CNRS-CRAN
Nesic, Dragan	Univ. of Melbourne
Heijmans, Stefan H. J.	Eindhoven Univ. of Tech
Heemels, W.P.M.H.	Eindhoven Univ. of Tech

17:00-17:20 WeC01.4

*H2-Based Optimal Sparse Sliding Mode Control for Networked Control Systems*, pp. 6826-6831.

Argha, Ahmadreza	Univ. of Tech. Sydney
Li, Li	Univ. of Tech. Sydney
Su, Steven W.	Univ. of Tech. Sydney
Nguyen, Hung	Univ. of Tech. Sydney

17:20-17:40 WeC01.5

*Unified Approach to Controller and MMSE Estimator Design with Intermittent Communications*, pp. 6832-6837.

Peters, Edwin G.W.	Univ. of Newcastle
Marelli, Damian	Univ. of Newcastle
Fu, Minyue	Univ. of Newcastle
Quevedo, Daniel E.	Paderborn Univ

17:40-18:00 WeC01.6

*Six Degrees of Separation in Multi-Agent Systems*, pp. 6838-6844.

Lunze, Jan	Ruhr-Univ. Bochum
------------	-------------------

WeC02 Starvine 2

**Autonomous Robots III** (Regular Session)

Chair: Speranzon, Alberto	Honeywell Aerospace - Advanced Tech
Co-Chair: Zhang, Fumin	Georgia Inst. of Tech

16:00-16:20 WeC02.1

*A Stochastic Optimization Framework for Source Seeking with Infotaxis-Like Algorithms*, pp. 6845-6850.

Mishra, Vivek	Georgia Inst. of Tech
Zhang, Fumin	Georgia Inst. of Tech

16:20-16:40 WeC02.2

*Constrained Source Seeking for Mobile Robots Via Simultaneous Perturbation Stochastic Approximation*, pp. 6851-6856.

Ramirez-Llanos, Eduardo	Univ. of California, San Diego
Martinez, Sonia	Univ. of California at San Diego

16:40-17:00 WeC02.3

*Time Varying Control Set Design for UAV Collision Avoidance Using Reachable Tubes*, pp. 6857-6862.

Zhou, Yuchen	Univ. of Maryland
Raghavan, Aneesh	Univ. of Maryland
Baras, John S.	Univ. of Maryland

17:00-17:20 WeC02.4

*Sampling-Based Min-Max Uncertainty Path Planning*, pp. 6863-6870.

Englot, Brendan	Stevens Inst. of Tech
-----------------	-----------------------

Shan, Tixiao	Stevens Inst. of Tech		
Bopardikar, Shaunk D.	United Tech. Res. Center, Inc	The Australian National Univ	
Speranzon, Alberto	Honeywell Aerospace - Advanced Tech	Massachusetts Inst. of Tech	
17:20-17:40	WeC02.5	16:00-16:20	WeC04.1
<i>Stochastic Behavior of Robots That Navigate by Interacting with Their Environment</i> , pp. 6871-6876.		<i>Model-Independent Trajectory Tracking of Euler-Lagrange Agents on Directed Networks</i> , pp. 6921-6927.	
Stager, Adam	Univ. of Delaware	Ye, Mengbin (Ben)	Australian National Univ
Tanner, Herbert G.	Univ. of Delaware	Anderson, Brian D.O.	Australian National Univ
17:40-18:00	WeC02.6	Yu, Changbin (Brad)	The Australian National Univ
<i>Ensuring Communication Connectivity in Multi-Agent Systems in the Presence of Uncooperative Clients</i> , pp. 6877-6882.		16:20-16:40	WeC04.2
Ju, Zhiyang	Univ. of Melbourne	Kim, Taekyoo	ASRI, Seoul National Univ
Shames, Iman	The Univ. of Melbourne	Shim, Hyungbo	Seoul National Univ
Nesic, Dragan	Univ. of Melbourne	Cho, Dong-il	Seoul National Univ
<b>WeC03</b>	Starvine 3	16:40-17:00	WeC04.3
<b>Decentralized Control II (Regular Session)</b>		<i>Distributed Luenberger Observer Design</i> , pp. 6928-6933.	
Chair: Pates, Richard	Lund Univ	Bai, Lu	Nanyang Tech. Univ
Co-Chair: D'Eleuterio, Gabriele M. T.	Univ. of Toronto	Ye, Maojiao	Nanyang Tech. Univ. Singapore
16:00-16:20	WeC03.1	Sun, Chao	NTU
<i>Adaptive Decentralized Control with Nonminimum-Phase Closed-Loop Channel Zeros</i> , pp. 6883-6888.		Hu, Guoqiang	Nanyang Tech. Univ
Islam, Syed Aseem UI	Univ. of Michigan	Parandehgheibi, Marzieh	MIT
Rahman, Yousaf	Univ. of Michigan	Turitsyn, Konstantin	Massachusetts Inst. of Tech
Bernstein, Dennis S.	Univ. of Michigan	Modiano, Eytan	MIT
16:20-16:40	WeC03.2	17:00-17:20	WeC04.4
<i>Characterising Stability Implying Properties That Are Preserved under Feedback</i> , pp. 6889-6894.		<i>Distributed Frequency Control in Power Grids under Limited Communication</i> , pp. 6940-6945.	
Pates, Richard	Lund Univ	Maffei, Alessio	Univ. of Sannio
16:40-17:00	WeC03.3	Iannelli, Luigi	Univ. of Sannio in Benevento
<i>Pattern Identification in Distributed Systems</i> , pp. 6895-6900.		Glielmo, Luigi	Univ. of Sannio
Ornik, Melkior	Univ. of Toronto	Borrelli, Francesco	University of California at Berkeley
Sniderman, Adam C.	Univ. of Toronto	17:20-17:40	WeC04.5
Broucke, Mireille E.	Univ. of Toronto	Pillon, Alessandro	Univ. of Cagliari
D'Eleuterio, Gabriele M. T.	Univ. of Toronto	Pisano, Alessandro	Univ. of Cagliari
17:00-17:20	WeC03.4	Franceschelli, Mauro	Univ. of Cagliari
<i>Signaling Equilibria for Dynamic LQG Games with Asymmetric Information</i> , pp. 6901-6908.		Usai, Elio	Univ. Degli Studi Di Cagliari
Vasal, Deepanshu	Univ. of Michigan, Ann Arbor		
Anastasopoulos, Achilleas	Univ. of Michigan		
17:20-17:40	WeC03.5	<b>WeC05</b>	Starvine 5
<i>A Chordal Decomposition Approach to Scalable Design of Structured Feedback Gains Over Directed Graphs</i> , pp. 6909-6914.		<b>Distributed Control for Large-Populations of Rational Agents II (Invited Session)</b>	
Zheng, Yang	Univ. of Oxford	Chair: Parise, Francesca	ETH Zurich
Mason, Richard Paul	Univ. of Oxford	Co-Chair: Nedich, Angelia	Arizona State Univ
Papachristodoulou, Antonis	Univ. of Oxford	Organizer: Parise, Francesca	ETH Zurich
17:40-18:00	WeC03.6	Organizer: Nedich, Angelia	Univ. of Illinois, Urbana-Champaign
<i>Polarization in Cooperative Networks of Heterogeneous Nonlinear Agents</i> , pp. 6915-6920.		Organizer: Bauso, Dario	The Univ. of Sheffield
Proskurnikov, Anton V.	Delft Univ. of Tech	Organizer: Lygeros, John	ETH Zurich
Cao, Ming	Univ. of Groningen	16:00-16:20	WeC05.1
<b>WeC04</b>	Starvine 4	<i>Linear-Quadratic Mean Field Teams with a Major Agent</i> , pp. 6958-6963.	
		Huang, Minyi	Carleton Univ

Nguyen, Son	Univ. of Puerto Rico, Rio Piedras	
16:20-16:40	WeC05.2	
Distributed Randomized Control for Demand Dispatch (I), pp. 6964-6971.		
Busic, Ana	Inria	
Meyn, Sean P.	Univ. of Florida	
16:40-17:00	WeC05.3	
Controlled Link Shredding for Maximizing Supportable Demand of a Disrupted Power Network (I), pp. 6972-6977.		
Kesavareddigari, Himaja	The Ohio State Univ	
Eryilmaz, Atilla	Ohio State Univ	
Srikant, R	Univ. of Illinois, Urbana-Champaign	
17:00-17:20	WeC05.4	
Input-Output Stability of Linear Consensus Processes (I), pp. 6978-6983.		
Liu, Ji	Univ. of Illinois at Urbana-Champaign	
Basar, Tamer	Univ. of Illinois, Urbana-Champaign	
Nedich, Angelia	Univ. of Illinois, Urbana-Champaign	
17:20-17:40	WeC05.5	
Controlling Human Utilization of Shared Resources Via Taxes, pp. 6984-6989.		
Hota, Ashish	Purdue Univ	
Sundaram, Shreyas	Purdue Univ	
17:40-18:00	WeC05.6	
Quantifying the Utility of Imperfect Reviews in Stopping Information Cascades, pp. 6990-6995.		
Le, Tho	Northwestern Univ	
Subramanian, Vijay G.	Northwestern Univ	
Berry, Randall	Northwestern Univ	
<b>WeC06</b>	Starvine 6	
<b>Game Theory III (Regular Session)</b>		
Chair: Marden, Jason R.	Univ. of California, Santa Barbara	
Co-Chair: Brown, Philip N.	Univ. of California, Santa Barbara	
16:00-16:20	WeC06.1	
Stochastic Generalized Reactivity (1) Games, pp. 6996-7001.		
Rodriguez, Natalia	Univ. De Buenos Aires	
Braberman, Victor	Univ. De Buenos Aires	
D'Ippolito, Nicolás	Univ. De Buenos Aires	
Uchitel, Sebastián	Univ. De Buenos Aires	
16:20-16:40	WeC06.2	
On Stochastic Dynamic Games with Delayed Sharing Information Structure, pp. 7002-7009.		
Tavafoghi, Hamidreza	Univ. of Michigan	
Ouyang, Yi	Univ. of Southern California	
Teneketzis, Demosthenis	Univ. of Michigan, Ann Arbor	
16:40-17:00	WeC06.3	
Avoiding Perverse Incentives in Affine Congestion Games, pp. 7010-7015.		
Brown, Philip N.	Univ. of California, Santa Barbara	
Marden, Jason R.	Univ. of California, Santa Barbara	
17:00-17:20	WeC06.4	
<b>Market Share Analysis with Brand Effect</b> , pp. 7016-7023.		
Fang, Zhixuan	Tsinghua Univ	
Huang, Longbo	Tsinghua Univ	
17:20-17:40	WeC06.5	
On Finite Harmonic Games, pp. 7024-7029.		
Li, Changxi	Harbin Inst. of Tech	
Liu, Ting	Chinese Acad. of Sciences	
He, Fenghua	Harbin Inst. of Tech	
Cheng, Daizhan	Chinese Acad. of Sciences	
Qi, Hongsheng	AMSS, Chinese Acad. of Sciences	
Hong, Yiguang	Chinese Acad. of Sciences	
17:40-18:00	WeC06.6	
Editing Network Topologies by Playing Potential Games, pp. 7030-7035.		
Pal, Siddharth	Univ. of Maryland Coll. Park	
Basu, Prithwish	Raytheon BBN Tech	
Ciftcioglu, Ertugrul	IBM Res	
Chan, Kevin	Army Res. Lab	
Swami, Ananthram	Army Res. Lab	
Cansever, Derya	Army CERDEC, Aberdeen Proving Ground	
<b>WeC07</b>	Starvine 7	
<b>Optimization III (Regular Session)</b>		
Chair: Bitar, Eilyan	Cornell Univ	
Co-Chair: Sojoudi, Somayeh	UC Berkeley	
16:00-16:20	WeC07.1	
Perturbation of System Dynamics and the Covariance Completion Problem, pp. 7036-7041.		
Zare, Armin	Univ. of Minnesota	
Jovanovic, Mihailo	Univ. of Minnesota	
Georgiou, Tryphon T.	Univ. of California, Irvine	
16:20-16:40	WeC07.2	
Graphical Lasso and Thresholding: Conditions for Equivalence, pp. 7042-7048.		
Sojoudi, Somayeh	UC Berkeley	
16:40-17:00	WeC07.3	
Viable Set Approximation for Linear-Gaussian Systems with Unknown, Bounded Variance, pp. 7049-7055.		
Gleason, Joseph	Univ. of New Mexico	
Vinod, Abraham	Univ. of New Mexico	
Oishi, Meeko	Univ. of New Mexico	
Erwin, Richard Scott	Air Force Res. Lab	
17:00-17:20	WeC07.4	
A Hierarchy of Polyhedral Approximations of Robust Semidefinite Programs, pp. 7056-7062.		
Louca, Raphael	Cornell Univ	
Bitar, Eilyan	Cornell Univ	
17:20-17:40	WeC07.5	
Optimal Allocation of Metabolic Functions among Organisms in a Microbial Ecosystem, pp. 7063-7068.		
Zhao, Qi	Boston Univ	
Segre, Daniel	Boston Univ	
Paschalidis, Ioannis Ch.	Boston Univ	
17:40-18:00	WeC07.6	

*Phasor Extremum Seeking Control with Adaptive Perturbation Amplitude*, pp. 7069-7074.

Atta, Khalid	Luleå Univ. of Tech
Hostettler, Roland	Aalto Univ
Birk, Wolfgang	Luleå Univ. of Tech
Johansson, Andreas	Lulea Univ. of Tech

**WeC08** Starvine 8

**Markov Processes** (Regular Session)

Chair: Zois, Daphney-Stavroula	Univ. of Illinois, Urbana-Champaign
Co-Chair: Fu, Jie	Worcester Pol. Inst
16:00-16:20	WeC08.1
<i>Regret Minimization Algorithms for Single-Controller Zero-Sum Stochastic Games</i> , pp. 7075-7080.	
Guan, Peng	Duke Univ
Raginsky, Maxim	Univ. of Illinois at Urbana-Champaign
Willett, Rebecca	Univ. of Wisconsin - Madison
Zois, Daphney-Stavroula	Univ. of Illinois, Urbana-Champaign

16:20-16:40 WeC08.2

*Robust Optimal Policies for Markov Decision Processes with Safety-Threshold Constraints*, pp. 7081-7086.

Dimitrova, Rayna	Max Planck Inst. for Software Systems
Fu, Jie	Worcester Pol. Inst
Topcu, Ufuk	The Univ. of Texas at Austin

16:40-17:00 WeC08.3

*Learning Parameterized Policies for Markov Decision Processes through Demonstrations*, pp. 7087-7092.

Hanawal, Manjesh Kumar	Indian Inst. of Tech. Bombay
Liu, Hao	Zhejiang Univ
Zhu, Henghui	Boston Univ
Pascalidis, Ioannis Ch.	Boston Univ

17:00-17:20 WeC08.4

*Solving the Chemical Master Equation by Aggregation and Krylov Approximations*, pp. 7093-7098.

Vo, Huy	Univ. of Alabama
Sidje, Roger	Univ. of Alabama

17:20-17:40 WeC08.5

*Stochastic Optimization with Value Function Approximation for Micro-Grid Operation*, pp. 7099-7104.

Shin, Joohyun	Korea Advanced Inst. of Science and Tech
Lee, Jay H.	Korea Advanced Inst. of Science and Tech
Realf, Matthew	Georgia Tech

17:40-18:00 WeC08.6

*Mean Field Stochastic Games: Monotone Costs and Threshold Policies*, pp. 7105-7110.

Huang, Minyi	Carleton Univ
Ma, Yan	Zhengzhou Univ

**WeC09** Starvine 9

**Observers for Nonlinear Systems II** (Regular Session)

Chair: Chakrabarty, Ankush	Harvard Univ
----------------------------	--------------

Co-Chair: Chen, Jian

Zhejiang Univ

16:00-16:20

WeC09.1

*State and Unknown Input Observers for Discrete-Time Nonlinear Systems*, pp. 7111-7116.

Chakrabarty, Ankush

Harvard Univ

Zak, Stanislaw H.

Purdue Univ

Sundaram, Shreyas

Purdue Univ

16:20-16:40

WeC09.2

*State Immersion Observers for Mechanical Systems with Impacts*, pp. 7117-7122.

Menini, Laura

Univ. Di Roma &apos;Tor Vergata&apos;

Tornambe, Antonio

Univ. Di Roma Tor Vergata

16:40-17:00

WeC09.3

*A Semi-Global Model-Based State Observer for the Quadrotor Using Only Inertial Measurements*, pp. 7123-7128.

Martin, Philippe

MINES ParisTech, PSL Res. Univ

Sarras, Ioannis

17:00-17:20

WeC09.4

*Design of Unknown Input Observers for Nonlinear Systems with Full and Partial Information*, pp. 7129-7134.

Cristofaro, Andrea

NTNU

Sassano, Mario

Univ. of Rome, Tor Vergata

17:20-17:40

WeC09.5

*Velocity and Range Identification of a Moving Object Using a Static-Moving Camera System*, pp. 7135-7140.

Zhang, Kaixiang

Zhejiang Univ

Chen, Jian

Zhejiang Univ

Jia, Bingxi

Zhejiang Univ

Gao, Yanyan

Zhejiang Univ

17:40-18:00

WeC09.6

*Cascade High-Gain Observer for High-Dimensional Systems*, pp. 7141-7146.

Khalil, Hassan K.

Michigan State Univ

**WeC10**

Starvine 10

**Identification for Control** (Regular Session)

Chair: Werner, Herbert

Hamburg Univ. of Tech

Co-Chair: Formentin, Simone

Pol. Di Milano

16:00-16:20

WeC10.1

*Identification of Linear Parameter-Varying Systems Via IO and Subspace Identification - a Comparison*, pp. 7147-7152.

Schulz, Erik

IAV GmbH

Bussa, Ashish

Tech. Univ. Hamburg

Werner, Herbert

Hamburg Univ. of Tech

16:20-16:40

WeC10.2

*Approximated Stochastic Model Predictive Control Using Statistical Linearization of Nonlinear Dynamical System in Latent Space*, pp. 7153-7158.

Oyama, Hiroyuki

Tokyo Inst. of Tech

Yamakita, Masaki

Tokyo Inst. of Tech

Asada, H. Harry

Massachusetts Inst. of Tech

16:40-17:00

WeC10.3

*On Data-Driven Control Design for Non-Minimum-Phase Plants: A Comparative View*, pp. 7159-7164.

Rallo, Gianmarco

Pol. Di Milano

Formentin, Simone Savaresi, Sergio M.	Pol. Di Milano Pol. Di Milano	Gopalan, Aditya Manjunath, D	Indian Inst. of Science IIT Bombay, India
17:00-17:20	WeC10.4	17:40-18:00	WeC11.6
<i>Vehicle Stability Control Via VRFT with Probabilistic Robustness Guarantees</i> , pp. 7165-7170.		<i>Event-Based Fault Diagnosis for an Unknown Plant</i> , pp. 7216-7221.	
Rallo, Gianmarco Formentin, Simone Garatti, Simone Savaresi, Sergio M.	Pol. Di Milano Pol. Di Milano Pol. Di Milano Pol. Di Milano	Karimi, Mohammad Mahdi Karimoddini, Ali White, Alejandro Bates, II, Ira Wendell	North Carolina A&T State Univ North Carolina A&T State Univ NC A&T State Univ North Carolina A&T State Univ
17:20-17:40	WeC10.5	17:40-18:00	WeC11.6
<i>Developments towards Formalizing a Benchmark for Continuous-Time Model Identification</i> , pp. 7171-7176.		<i>Hamiltonian-Based Algorithm for Relaxed Optimal Control</i> , pp. 7222-7227.	
Pascu, Valentin Garnier, Hugues Ljung, Lennart Janot, Alexandre	ONERA - the French Aerospace Lab Univ. of Lorraine Linkoping Univ ONERA	Wardi, Yorai Egerstedt, Magnus Qureshi, Muhammad Umer	Georgia Inst. of Tech Georgia Inst. of Tech Georgia Inst. of Tech
17:40-18:00	WeC10.6	16:00-16:20	WeC12.1
<i>System Identification in the Presence of Adversarial Outputs</i> , pp. 7177-7182.		<i>Optimal Control of Switching Times in Switched Linear Systems</i> , pp. 7228-7233.	
Showkatbakhsh, Mehrdad Tabuada, Paulo Diggavi, Suhas	Univ. of California at Los Angeles Univ. of California at Los Angeles UCLA	Stellato, Bartolomeo Ober-Blöbaum, Sina Goulart, Paul	Univ. of Oxford Univ. of Paderborn Univ. of Oxford
<b>WeC11</b>	Starvine 11	16:40-17:00	WeC12.3
<b>Learning (Regular Session)</b>		<i>Observer-Based Control Design Via LMIs for a Class of Switched Discrete-Time Linear Systems with Parameter Uncertainties</i> , pp. 7234-7239.	
Chair: Wang, Yu Co-Chair: Jadbabaie, Ali	Yale Univ MIT	Bibi, Hamza Bedouhene, Fazia Kheloufi, Houria Zemouche, Ali Trinh, Hieu	Univ. of Tizi-Ouzou Univ. of Mouloud Mammeri, Tizi-Ouzou Univ. of Mouloud Mammeri Univ. of Lorraine Deakin Univ
16:00-16:20	WeC11.1	17:00-17:20	WeC12.4
<i>Fast Reinforcement Learning Using Multiple Models</i> , pp. 7183-7188.		<i>On the RMS Gain of Switched Systems Via Homogeneous Rational Lyapunov Functions</i> , pp. 7240-7245.	
Narendra, Kumpati S. Wang, Yu Mukhopadhyay, Snehasis	Yale Univ Yale Univ Indiana-Purdue Univ	Chesi, Graziano Colaneri, Patrizio	The Univ. of Hong Kong Pol. Di Milano
16:20-16:40	WeC11.2	17:20-17:40	WeC12.5
<i>Spatial Path Tracking Using Iterative Learning Control</i> , pp. 7189-7194.		<i>Reachable Set Estimation and Control for Switched Linear Systems with Dwell-Time Restriction</i> , pp. 7246-7251.	
Chen, Yiyang Chu, Bing Freeman, Christopher T.	Univ. of Southampton Univ. of Southampton Univ. of Southampton	Xiang, Weiming Tran, Dung Johnson, Taylor T	Vanderbilt Univ Vanderbilt Univ Vanderbilt Univ
16:40-17:00	WeC11.3	17:40-18:00	WeC12.6
<i>Online Optimization in Dynamic Environments: Improved Regret Rates for Strongly Convex Problems</i> , pp. 7195-7201.		<i>Robust Stabilization of Discrete-Time Piecewise Affine Systems Subject to Bounded Disturbances</i> , pp. 7252-7257.	
Mokhtari, Aryan Shahrampour, Shahin Jadbabaie, Ali Ribeiro, Alejandro	Univ. of Pennsylvania Harvard Univ MIT Univ. of Pennsylvania	Bardakci, Ibrahim Ekrem Lee, Ji-Woong Lagoa, Constantino M.	Penn State Univ Pennsylvania State Univ Pennsylvania State Univ
17:00-17:20	WeC11.4	17:40-18:00	WeC12.6
<i>Learning Control for Task Specific Industrial Robots</i> , pp. 7202-7209.		<i>Stability of Nonlinear Systems III (Regular Session)</i>	Starvine 13
Lin, Chung-Yen Chen, Wenjie Tomizuka, Masayoshi	Univ. of California, Berkeley FANUC Corp Univ. of California, Berkeley		
17:20-17:40	WeC11.5		
<i>Optimal Recommendation to Users That React: Online Learning for a Class of POMDPs</i> , pp. 7210-7215.			
Meshram, Rahul	INDIAN Inst. Tech. BOMBAY		

Chair: Scherer, Carsten W.	Univ. of Stuttgart	Shtessel, Yuri	Univ. of Alabama at Huntsville
Co-Chair: Levant, Arie	Tel - Aviv Univ	Basin, Michael	Autonomous Univ. of Nuevo Leon
16:00-16:20	WeC13.1	16:40-17:00	WeC14.3
<i>Interval Homogeneous Domination Approach for Global Stabilization of Nonlinear Systems with Time-Varying Powers</i> , pp. 7258-7263.		<i>ISS-Lyapunov Functions for Output Feedback Sliding Modes</i> , pp. 7306-7311.	
Chen, Chih-Chiang	National Chiao Tung Univ	Aparicio, Andrea	Engineering Faculty, UNAM
Qian, Chunjiang	Univ. of Texas at San Antonio	Efimov, Denis	Inria
Liang, Yew-Wen	National Chiao Tung Univ	Fridman, Leonid	National Autonomous Univ. of Mexico
Li, Shihua	Southeast Univ		
16:20-16:40	WeC13.2	17:00-17:20	WeC14.4
<i>Stability and Performance Analysis on Sobolev Spaces</i> , pp. 7264-7269.		<i>On Acceleration of a Class of Asymptotically Stable Homogeneous Systems</i> , pp. 7312-7317.	
Fetzer, Matthias	Univ. of Stuttgart	Efimov, Denis	Inria
Scherer, Carsten W.	Univ. of Stuttgart	Levant, Arie	Tel - Aviv Univ
16:40-17:00	WeC13.3	Polyakov, Andrey	Inria Lille Nord-Europe
<i>Stability Analysis of Model Predictive Controllers Using Mixed Integer Linear Programming</i> , pp. 7270-7275.		Perruquetti, Wilfrid	Ec. Centrale De Lille
Simon, Daniel	Linkoping Univ		
Löfberg, Johan	Linköpings Univ		
17:00-17:20	WeC13.4	17:20-17:40	WeC14.5
<i>Noise-To-State Stability of Nonlinear Systems with Random Disturbances and Impulses</i> , pp. 7276-7281.		<i>Sampled Describing Function Analysis of Second Order Sliding Modes</i> , pp. 7318-7324.	
Jiao, Ticao	Nanjing Univ. of Science and Tech	Koch, Stefan	Graz Univ. of Tech
Zheng, Wei Xing	Western Sydney Univ	Reichhartinger, Markus	Graz Univ. of Tech
17:20-17:40	WeC13.5	Horn, Martin	Graz Univ. of Tech
<i>A Lyapunov Analysis for the Robust Stability of an Adaptive Bellman-Ford Algorithm</i> , pp. 7282-7287.		Fridman, Leonid	National Autonomous Univ. of Mexico
Dasgupta, Soura	Univ. of Iowa	Castillo Lopez, Alberto Ismael	National Autonomous Univ. of Mexico
Beal, Jacob	Raytheon BBN Tech	Steinberger, Martin	Graz Univ. of Tech
17:40-18:00	WeC13.6	Fridman, Leonid	National Autonomous Univ. of Mexico
<i>Stability and Robustness of Homogeneous Differential Inclusions</i> , pp. 7288-7293.		Moreno, Jaime A.	Univ. Nacional Autonoma De Mexico-UNAM
Levant, Arie	Tel - Aviv Univ	Horn, Martin	Graz Univ. of Tech
Efimov, Denis	Inria - Lne		
Polyakov, Andrey	Inria Lille Nord-Europe		
Perruquetti, Wilfrid	Ec. Centrale De Lille		
<b>WeC14</b>		<b>WeC15</b>	
<b>Sliding-Mode Control II (Regular Session)</b>		<b>Entropy in Information and Control (Invited Session)</b>	
Chair: Fridman, Leonid	National Autonomous Univ. of Mexico	Chair: Kawan, Christoph	Univ. of Passau
Co-Chair: Ferrara, Antonella	Univ. of Pavia	Co-Chair: Yuksel, Serdar	Queen&apos;s Univ
16:00-16:20	WeC14.1	Organizer: Kawan, Christoph	Univ. of Passau
<i>Sliding Mode Control for Maximum Power Point Tracking of Photovoltaic Inverters in Microgrids</i> , pp. 7294-7299.		Organizer: Yuksel, Serdar	Queen&apos;s Univ
Cucuzzella, Michele	Univ. of Pavia		
Incremona, Gian Paolo	Univ. of Pavia		
Guastalli, Mauro	Univ. of Pavia		
Ferrara, Antonella	Univ. of Pavia		
16:20-16:40	WeC14.2	16:00-16:20	WeC15.1
<i>Robustness Metrics for Nonlinear Uniform Fixed-Time Convergent Second Order Sliding Mode Control</i> , pp. 7300-7305.		<i>Causality Preserving Information Transfer Measure for Control Dynamical System (I)</i> , pp. 7329-7334.	
Panathula, Chandrasekhara	Univ. of Alabama in Huntsville	Sinha, Subhrajit	Iowa State Univ
Bharath		Vaidya, Umesh	Iowa State Univ
Rosales, Antonio	Inst. Tecnologico Y De Estudios Superiores De Monterrey, CCM	16:20-16:40	WeC15.2
		<i>Entropy Notions for State Estimation and Model Detection with Finite-Data-Rate Measurements (I)</i> , pp. 7335-7340.	
		Liberzon, Daniel	Univ. of Illinois, Urbana-Champaign
		Mitra, Sayan	Univ. of Illinois
		16:40-17:00	WeC15.3
		<i>Metric Invariance Entropy and Relatively Invariant Control Sets (I)</i> , pp. 7341-7346.	
		Colonius, Fritz	Univ. of Augsburg

17:00-17:20	WeC15.4
<i>Sequential Empirical Coordination under an Output Entropy Constraint (I)</i> , pp. 7347-7352.	
Shafeepoorfard, Ehsan	Univ. of Illinois Urbana Champaign
Raginsky, Maxim	Univ. of Illinois at Urbana-Champaign
17:20-17:40	WeC15.5
<i>Invariance and Stationarity in Non-Linear Networked Control: Deterministic and Stochastic Formulations (I)</i> , pp. 7353-7358.	
Kawan, Christoph	Univ. of Passau
Yuksel, Serdar	Queen's Univ
17:40-18:00	WeC15.6
<i>LQG Control with Minimum Directed Information (I)</i> , pp. 7359-7364.	
Tanaka, Takashi	KTH Royal Inst. of Tech
Mohajerin Esfahani, Peyman	ETH Zurich
Mitter, Sanjoy K.	Massachusetts Inst. of Tech
<b>WeC16</b>	Ironwood 3
<b>Numerical Algorithms</b> (Regular Session)	
Chair: De La Torre, Gerardo	Northwestern Univ
Co-Chair: De Lellis, Pietro	Univ. of Naples Federico II
16:00-16:20	WeC16.1
<i>Linear-Quadratic-Gaussian Problem for a New Class of Singularly Perturbed Stochastic Systems</i> , pp. 7365-7370.	
Kodra, Kliti	Rutgers Univ
Gajic, Zoran	Rutgers Univ
16:20-16:40	WeC16.2
<i>A Jacobi-Like Acceleration for Dynamic Programming</i> , pp. 7371-7376.	
Laurini, Mattia	Univ. of Parma
Micelli, Piero	Univ. of Parma
Consolini, Luca	Univ. of Parma
Locatelli, Marco	Univ. of Parma
16:40-17:00	WeC16.3
<i>Numerical Treatment of the Optimal Energy Control Problem of Hybrid Vehicles</i> , pp. 7377-7383.	
Burtchen, Angie	Brandenburg Univ. of Tech. at Cottbus-Senftenberg
Maurer, Helmut	Univ. Münster
Pickenhain, Sabine	Brandenburg Univ. of Tech. at Cottbus-Senftenberg
17:00-17:20	WeC16.4
<i>On the Benefits of Surrogate Lagrangians in Optimal Control and Planning Algorithms</i> , pp. 7384-7391.	
De La Torre, Gerardo	Northwestern Univ
Murphy, Todd D.	Northwestern Univ
17:20-17:40	WeC16.5
<i>A Probabilistic Max-Plus Numerical Method for Solving Stochastic Control Problems</i> , pp. 7392-7397.	
Akian, Marianne	INRIA and CMAP, Ec. Pol. CNRS
Fodjo, Eric	INRIA and CMAP, Ec. Pol. CNRS
17:40-18:00	WeC16.6
<i>Partial Pinning Control of Complex Networks</i> , pp. 7398-7403.	
De Lellis, Pietro	Univ. of Naples Federico II
Garofalo, Franco	Univ. of Naples
Lo Iudice, Francesco	Univ. Di Napoli Federico II

<b>WeC17</b>	Ironwood 6
<b>Formal Verification/Synthesis III</b> (Regular Session)	
Chair: Zamani, Majid	Tech. Univ. München
Co-Chair: Althoff, Matthias	Tech. Univ. München
16:00-16:20	WeC17.1
<i>Symbolic Synthesis with Average Performance Guarantees</i> , pp. 7404-7410.	
Rungger, Matthias	TUM
Reissig, Gunther	Univ. of the Federal Armed Forces Munich
Zamani, Majid	Tech. Univ. of Munich
16:20-16:40	WeC17.2
<i>Specification Revision for Markov Decision Processes with Optimal Trade-Off</i> , pp. 7411-7418.	
Lahijanian, Morteza	Univ. of Oxford
Kwiatkowska, Marta Zofia	Univ. of Oxford
16:40-17:00	WeC17.3
<i>Control in Belief Space with Temporal Logic Specifications</i> , pp. 7419-7424.	
Vasile, Cristian Ioan	Massachusetts Inst. of Tech
Leahy, Kevin	Boston Univ
Cristofalo, Eric	Stanford Univ
Jones, Austin	Massachusetts Inst. of Tech. Lincoln Lab
Schwager, Mac	Stanford Univ
Belta, Calin	Boston Univ
17:00-17:20	WeC17.4
<i>Synthesis of Safety Controllers Robust to Unmodeled Intermittent Disturbances</i> , pp. 7425-7430.	
Dallal, Eric	Univ. of California in Los Angeles
Tabuada, Paulo	Univ. of California at Los Angeles
Neider, Hermann Daniel	Univ. of California, Los Angeles
17:20-17:40	WeC17.5
<i>Ensuring Safety for Sampled Data Systems: An Efficient Algorithm for Filtering Potentially Unsafe Input Signals</i> , pp. 7431-7438.	
Mitchell, Ian M.	Univ. of British Columbia
Yeh, Jeffrey	Google Inc
Laine, Forrest J.	Univ. of California, Berkeley
Tomlin, Claire J.	UC Berkeley
17:40-18:00	WeC17.6
<i>Combining Zonotopes and Support Functions for Efficient Reachability Analysis of Linear Systems</i> , pp. 7439-7446.	
Althoff, Matthias	Tech. Univ. München
Frehse, Goran	VERIMAG
<b>WeC18</b>	Ironwood 7
<b>Reduced Order Modeling</b> (Regular Session)	
Chair: Scarsotti, Giordano	Imperial Coll. London
Co-Chair: Mohseni, Kamran	Univ. of Florida
16:00-16:20	WeC18.1
<i>Moment Matching for Nonlinear Differential-Algebraic Equations</i> , pp. 7447-7452.	
Scarsotti, Giordano	Imperial Coll. London
16:20-16:40	WeC18.2

<i>Constrained Optimal Reduced-Order Models from Input/output Data</i> , pp. 7453-7458.	Vicino, Antonio	Univ. Di Siena
Scarciotti, Giordano Jiang, Zhong-Ping Astolfi, Alessandro	Imperial Coll. London New York Univ Imperial Coll. & Univ. of Rome	WeC19.4
16:40-17:00	WeC18.3	
<i>Model Order Reduction of LPV Systems Based on Parameter Varying Modal Decomposition</i> , pp. 7459-7464.	Dall'Anese, Emiliano Baker, Kyri Summers, Tyler H.	National Renewable Energy Lab National Renewable Energy Lab Univ. of Texas at Dallas
Gozse, Istvan Luspay, Tamás	Mta Sztki Inst. for Computer Science and Control	WeC19.5
Peni, Tamas Szabo, Zoltan Vanek, Balint	MTA-SZTAKI Mta Sztki Mta Sztki	Univ. of Waterloo Univ. of Groningen
17:00-17:20	WeC18.4	
<i>Geometric Model Reduction of Forced and Dissipative Hamiltonian Systems</i> , pp. 7465-7470.	Simpson-Porco, John W. Monshizadeh, Nima	Univ. of Waterloo Univ. of Groningen
Peng, Liqian Mohseni, Kamran	Mo, Yanfang	The Hong Kong Univ. of Science and Tech
17:20-17:40	WeC18.5	
<i>Model Reduction of Second-Order Network Systems Using Graph Clustering</i> , pp. 7471-7476.	Chen, Wei Qiu, Li	KTH Royal Inst. of Tech Hong Kong Univ. of Sci. & Tech
Cheng, Xiaodong Scherpen, Jacquelien M.A. Kawano, Yu	Univ. of Groningen Univ. of Groningen Kyoto Univ	Coppearleaf 1
17:40-18:00	WeC18.6	
<i>Higher-Order Averaging Analysis of the Nonlinear Time-Periodic Dynamics of Hovering Insects/Flapping-Wing Micro-Air-Vehicles</i> , pp. 7477-7482.	Razavi, Hamed Bloch, Anthony M. Da, Xingye Ijspeert, Auke Jan	EPFL Univ. of Michigan Univ. of Michigan, Ann Arbor School of Computer and Communication Sciences, EPFL
Hassan, Ahmed Taha, Haithem	Univ. of California, Irvine Virginia Tech	WeC20.1
<b>WeC19</b>	Ironwood 8	
<b>Smart Grid IV (Regular Session)</b>		
Chair: Dhople, Sairaj Co-Chair: Simpson-Porco, John W.	Univ. of Minnesota Univ. of Waterloo	
16:00-16:20	WeC19.1	
<i>Strictly Convex Loss Functions for Port-Hamiltonian Based Optimization Algorithm for MTDC Networks</i> , pp. 7483-7488.	Giordano, Alessandro Garofalo, Gianluca De Stefano, Marco Ott, Christian Albu-Schaeffer, Alin	Tech. Univ. of Munich (TUM) German Aerospace Center (DLR) German Aerospace Center (DLR) German Aerospace Center (DLR) German Aerospace Center (DLR)
del Puerto-Flores, Dunstano Dòria-Cerezo, Arnau Scherpen, Jacquelien M.A. Benedito, Ernest van der Feltz, Olivier	Univ. of Guadalajara (UdeG) Tech. Univ. of Catalonia (UPC) Univ. of Groningen Univ. Pol. De Catalunya Univ. of Groningen	WeC20.2
16:20-16:40	WeC19.2	
<i>Design of Distributed Controllers Seeking Optimal Power Flow Solutions under Communication Constraints (I)</i> , pp. 7489-7495.	CHANG, ALEXANDER Serrano, Miguel Vela, Patricio A.	GEORGIA Inst. OF Tech Georgia Inst. of Tech Georgia Inst. of Tech
Dall'Anese, Emiliano Simonetto, Andrea Dhople, Sairaj	National Renewable Energy Lab Univ. Catholique Louvain Univ. of Minnesota	WeC20.3
16:40-17:00	WeC19.3	
<i>Receding Horizon Voltage Control in LV Networks with Energy Storage</i> , pp. 7496-7501.	Dear, Tony Kelly, Scott	Carnegie Mellon Univ Univ. of North Carolina at Charlotte
Zarrilli, Donato Giannitrapani, Antonio Paoletti, Simone	Univ. Di Siena Univ. Di Siena Univ. Di Siena	Carnegie Mellon Univ Carnegie Mellon Univ
17:00-17:20	WeC20.4	
<i>Locomotive Analysis of a Single-Input Three-Link Snake Robot</i> , pp. 7542-7547.	Travers, Matthew Choset, Howie	

17:20-17:40	WeC20.5	Chair: Langbort, Cedric	Univ. of Illinois, Urbana-Champaign
<i>MPC-Based Admittance Control for Robotic Manipulators</i> , pp. 7548-7554.		Co-Chair: Coogan, Samuel	Univ. of California, Los Angeles
Wahrburg, Arne	Abb Ag		WeC22.1
Listmann, Kim Daniel	Abb Ag		
17:40-18:00	WeC20.6	16:00-16:20	
<i>A Physical Parameter-Based Skidding Model for the Snakeboard</i> , pp. 7555-7560.		<i>A Model of Informational Nudging in Transportation Networks</i> , pp. 7598-7604.	
Salman, Hadi	Carnegie Mellon Univ	Cheng, Yijie	Univ. of Illinois at Urbana-Champaign
Dear, Tony	Carnegie Mellon Univ	Langbort, Cedric	Univ. of Illinois, Urbana-Champaign
Babikian, Sevag	American Univ. of Beirut		
Shammas, Elie	American Univ. of Beirut		
Choset, Howie	Carnegie Mellon Univ		
<b>WeC21</b>	Coppearleaf 2	16:20-16:40	WeC22.2
<b>Control Applications II (Regular Session)</b>		<i>Understanding the Impact of Parking on Urban Mobility Via Routing Games on Queue-Flow Networks</i> , pp. 7605-7610.	
Chair: Zietsman, Lizette	Virginia Tech	Calderone, Daniel Joseph	Univ. of California, Berkeley
Co-Chair: Serrani, Andrea	The Ohio State Univ	Mazumdar, Eric	UC Berkeley
16:00-16:20	WeC21.1	Ratliff, Lillian J.	Univ. of Washington
<i>MatTrader: An Automated Trading and Financial Data Analysis Framework for Matlab and Java</i> , pp. 7561-7566.		Sastray, Shankar	Univ. of California at Berkeley
Calafiore, Giuseppe C.	Pol. Di Torino		
Poletti, Luca	Pol. Di Torino		
Preziosi, Alessandro	Pol. Di Torino		
16:20-16:40	WeC21.2		
<i>Addressing Limits of Operability of the Scramjet Engine in Adaptive Control of a Generic Hypersonic Vehicle</i> , pp. 7567-7572.			
Serrani, Andrea	The Ohio State Univ	Coogan, Samuel	Univ. of California, Los Angeles
Bolender, Michael	Air Force Res. Lab	Arcak, Murat	Univ. of California, Berkeley
16:40-17:00	WeC21.3	Kurzhanskiy, Alex A.	Univ. of California, Berkeley
<i>Applying Simple PID Tuning Rules with Extended Frequency Response Knowledge</i> , pp. 7573-7578.			
Brankovic, Aida	Pol. Di Milano		
Guanetti, Jacopo	Univ. of California at Berkeley		
Selmanaj, Donald	Pol. Di Milano		
Leva, Alberto	Pol. Di Milano		
17:00-17:20	WeC21.4		
<i>Feedback Stabilization of Fluids Using Reduced-Order Models for Control and Compensator Design (I)</i> , pp. 7579-7585.			
Borggaard, Jeff	Virginia Tech	Das Gupta, Shuvomoy	Univ. of Toronto
Gugercin, Serkan	Virginia Tech	Pavel, Lacra	Univ. of Toronto
Zietsman, Lizette	Virginia Tech		
17:20-17:40	WeC21.5	17:00-17:20	WeC22.4
<i>Location-Dependent Privacy</i> , pp. 7586-7591.		<i>Multi-Player Minimum Cost Flow Problems with Nonconvex Costs and Integer Flows</i> , pp. 7617-7622.	
Koufogiannis, Fragkiskos	Univ. of Pennsylvania	Das Gupta, Shuvomoy	Univ. of Toronto
Pappas, George J.	Univ. of Pennsylvania	Pavel, Lacra	Univ. of Toronto
17:40-18:00	WeC21.6		
<i>Large-Scale Multi-Agent Reinforcement Learning Using Image-Based State Representation</i> , pp. 7592-7597.		17:20-17:40	WeC22.5
Chu, Tianshu	Stanford Univ	<i>A New Approach to Robust Transportation Over Networks (I)</i> , pp. 7623-7628.	
Qu, Shuhui	Stanford Univ	Chen, Yongxin	Univ. of Minnesota
Wang, Jie	Stanford	Georgiou, Tryphon T.	Univ. of California, Irvine
<b>WeC22</b>	Coppearleaf 3	Pavon, Michele	Univ. Di Padova
<b>Transportation Networks (Regular Session)</b>		Tannenbaum, Allen	Stony Brook Univ
		17:40-18:00	WeC22.6
		<i>Data Driven Exploration of Traffic Network System Dynamics Using High Resolution Probe Data</i> , pp. 7629-7634.	
		Liu, Chao	Iowa State Univ
		Huang, Bowen	Iowa State Univ
		Zhao, Mo	Iowa State Univ
		Sarkar, Soumik	Iowa State Univ
		Vaidya, Umesh	Iowa State Univ
		sharma, anuj	Iowa State Univ
		<b>WeC23</b>	Juniper 4
		<b>Information Acquisition, Controlled Sensing, and Sequential Refinement of Belief (Tutorial Session)</b>	
		Chair: Javidi, Tara	Univ. of California, San Diego
		Organizer: Javidi, Tara	Univ. of California, San Diego
		16:00-18:00	WeC23.1
		<i>Information Acquisition, Controlled Sensing, and Sequential Refinement of Belief (I)</i> , pp. 7635-7654.	
		Javidi, Tara	Univ. of California, San Diego