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Co-Chair: Valcher, M. Elena	Univ. di Padova
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Co-Chair: Philipp, Peter	Tech. Univ. München
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Sánchez Moreno, José	UNED
Dormido, Sebastián	UNED
Johansson, Karl H.	KTH Royal Inst. of Tech.
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Worthmann, Karl	Univ. of Bayreuth
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Chen, Jie	City Univ. of Hong Kong
Silva, Eduardo I.	Univ. Técnica Federico Santa María

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Lucia, Walter	Univ. degli Studi della Calabria
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Co-Chair: Touri, Behrouz	Univ. of Illinois, Urbana-Champaign
Organizer: Javidi, Tara	Univ. of California, San Diego
Organizer: Nedich, Angelia	Univ. of Illinois, Urbana-Champaign
Organizer: Touri, Behrouz	Univ. of Illinois, Urbana-Champaign
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Zampieri, Sandro	Univ. di Padova
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Antsaklis, Panos J.	Univ. of Notre Dame
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Callaway, Duncan	Univ. of California, Berkeley
Poolla, Kameshwar	Univ. of California, Berkeley
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<i>A Novel Missile Warhead Tracking Algorithm Based on Geometric Data Association</i> , pp. 484-489.	
Han, Seul-Ki	Yonsei Univ.
Ra, Won-Sang	Agency for Defense Development
Park, Jin Bae	Yonsei Univ.
10:40-11:00	MoA12.3
<i>Output Feedback Control of Satellite Attitude Using a Single Vector Measurement</i> , pp. 490-495.	
Namvar, Mehrzad	Sharif Univ. of Tech.
Safaei, Fatemeh	Sharif Univ. of Tech.
11:00-11:20	MoA12.4
<i>A Landmark-Based Controller for Global Asymptotic Stabilization on SE(3)</i> , pp. 496-501.	
Casau, Pedro	Inst. Superior Tecnico
Sanfelice, Ricardo G.	Univ. of Arizona
Cunha, Rita	Inst. Superior Técnico
Silvestre, Carlos	University of Macau
11:20-11:40	MoA12.5
<i>Identification and Control of Nonlinear Harmonic Coupling for Pulsed Jet Injection</i> , pp. 502-507.	
Hendrickson, Cory	Univ. of California, Los Angeles
M'Closkey, Robert	Univ. of California, Los Angeles
11:40-12:00	MoA12.6
<i>Approximating the Likelihood of Historical Airline Actions to Evaluate Airline Delay Cost Functions</i> , pp. 508-513.	
Bloem, Michael	NASA Ames Res. Center
Huang, Haiyun	Delft Univ. of Tech.
Bambos, Nicholas	Stanford Univ.
12:00-12:20	MoA12.7
<i>Approaches for Stochastic Safety Analysis Arising in ATM Application</i> , pp. 514-519.	
AL-Basman, Munar	Purdue Univ.
Hu, Jianghai	Purdue Univ.
MoA13	
Robotics I (Regular Session)	
Chair: Pettersen, Kristin Y.	Ilima 1 Norwegian Univ. of Science and Tech.
Co-Chair: Nakamura, Hisakazu	Tokyo Univ. of Science
10:00-10:20	MoA13.1
<i>Path Planning for Optimal Classification</i> , pp. 520-527.	
Faied, Mariam	Univ. of Michigan
Kabamba, Pierre T.	Univ. of Michigan
Hyun, Baro	Univ. of Michigan
Girard, Anouck	Univ. of Michigan
10:20-10:40	MoA13.2
<i>Path Following of Underactuated Autonomous Underwater Vehicles in the Presence of Ocean Currents</i> , pp. 528-535.	
Caharija, Walter	Norwegian Univ. of Science and Tech.
Pettersen, Kristin Y.	Norwegian Univ. of Science and Tech.
Gravdahl, Jan Tommy	Norwegian Univ. of Science and Tech.
Børhaug, Even	Norwegian Univ. of Science and Tech.

10:40-11:00	MoA13.3	
<i>A Trajectory Tracking Control Scheme Design for Nonholonomic Wheeled Mobile Robots with Low-Level Control Systems</i> , pp. 536-543.		
Low, Chang Boon	DSO National Lab.	
11:00-11:20	MoA13.4	
<i>Iterative Feedback Tuning for the Joint Controllers of a 7-DOF Whole Arm Manipulator</i> , pp. 544-549.		
Pineda Rico, Zaira	Univ. of Leicester	
Lecchini Visintini, Andrea	Univ. of Leicester	
Quian Quiroga, Rodrigo	Univ. of Leicester	
11:20-11:40	MoA13.5	
<i>High Precision Control of Robot Manipulators Via Finite-Time P-PI Control</i> , pp. 550-555.		
Nakamura, Hisakazu	Tokyo Univ. of Science	
Nishida, Naoki	Nara Inst. of Science and Tech.	
Nakamura, Nami		
11:40-12:00	MoA13.6	
<i>Augmented Imaged Based Visual Servoing Controller for a 6 DOF Manipulator Using Acceleration Command</i> , pp. 556-561.		
Keshmiri, Mohammad	Concordia Univ.	
Xie, Wenfang	Concordia Univ.	
12:00-12:20	MoA13.7	
<i>Target-Point Based Path Following Controller for Car-Type Vehicle Using Bounded Feedback</i> , pp. 562-567.		
Laghrouche, Salah	UTBM	
Harmouche, Mohamed	UTBM	
Chitour, Yacine	Univ. Paris-Sud, CNRS, Supelec	
MoA14		Ilma 2
Fault Detection I (Regular Session)		
Chair: Brás, Sérgio	IST-ID	
Co-Chair: Zhang, Xiaodong	Wright State Univ.	
10:00-10:20	MoA14.1	
<i>Fault Detection for Switched Systems Based on a Deterministic Method</i> , pp. 568-573.		
Abdo, Ali	Univ. of Duisburg - Essen	
Ding, Steven X.	Univ. of Duisburg - Essen	
Saijai, Jedsada	Univ. of Duisburg - Essen	
Damlakhi, Waseem	Univ. of Duisburg - Essen	
10:20-10:40	MoA14.2	
<i>Statistical Properties of Exponentially Weighted Moving Average Algorithm for Change Detection</i> , pp. 574-578.		
Chitranganti, Shaikshavali	Univ. de Lorraine	
Aberkane, Samir	UHP, NANCY 1	
Aubrun, Christophe	Univ. de Lorraine	
10:40-11:00	MoA14.3	
<i>Fault Detection Using Marginalized Likelihood Ratio and Uniform Priors: Justifications and Challenges</i> , pp. 579-585.		
Kiasi, Fariborz	Univ. of Alberta	
Prakash, Jagadeesan	Anna University	
Shah, Sirish L.	Univ. of Alberta	
11:00-11:20	MoA14.4	
<i>A Distributed Detection Scheme for Process Faults and Sensor Faults in a Class of Interconnected Nonlinear Uncertain Systems</i> , pp. 586-591.		
Zhang, Qi	Wright State Univ.	
Zhang, Xiaodong	Wright State Univ.	
11:20-11:40	MoA14.5	
<i>A Novel Distributed Robust Fault Detection and Isolation Filter Design for a Network of Nonhomogeneous Multi-Agent Systems</i> , pp. 592-599.		
Davoodi, Mohammadreza	Tarbiat Modares Univ.	
Khorasani, Khashayar	Concordia Univ.	
Talebi, H.A.	Amirkabir Univ.	
Momeni, Hamidreza	Tarbiat Modares Univ.	
11:40-12:00	MoA14.6	
<i>Fault Detection and Isolation for Inertial Measurement Units</i> , pp. 600-605.		
Brás, Sérgio	Inst. Superior Técnico	
Rosa, Paulo Andre Nobre	Inst. Superior Técnico	
Silvestre, Carlos	Inst. Superior Técnico	
Oliveira, Paulo Jorge	Inst. Superior Técnico	
MoA15		Ilma 3
Computational Methods (Regular Session)		
Chair: McEneaney, William	Univ. of California, San Diego	
Co-Chair: Ostertag, Eric	Univ. of Strasbourg	
10:00-10:20	MoA15.1	
<i>A Novel Algorithm to Solve the Robust DMZ Equation in Real Time</i> , pp. 606-611.		
Luo, Xue	Univ. of Illinois at Chicago	
Yau, Stephen S.-T.	Tsinghua Univ.	
10:20-10:40	MoA15.2	
<i>Approximation of Nonlinear L2-Gain Bounds Via a Max-Plus Method</i> , pp. 612-617.		
Zhang, Huan	Univ. of Melbourne	
Dower, Peter M.	Univ. of Melbourne	
10:40-11:00	MoA15.3	
<i>A Max-Plus Method for Optimal Control of a Diffusion Equation</i> , pp. 618-623.		
Dower, Peter M.	Univ. of Melbourne	
McEneaney, William	Univ. of California, San Diego	
11:00-11:20	MoA15.4	
<i>Fractional Order Differentiation by Integration with Jacobi Polynomials</i> , pp. 624-629.		
Liu, Da-yan	King Abdullah Univ. of Science and Tech.	
Gibaru, Olivier	Arts et Metiers ParisTech	
Perruquetti, Wilfrid	Ec. Centrale de Lille	
Laleg, Taous Meriem	King Abdullah Univ. of Science and Tech. (KAUST)	

11:20-11:40	MoA15.5
<i>Consistent Approximation of an Optimal Search Problem</i> , pp. 630-637.	
Phelps, Chris	Univ. of California, Santa Cruz
Gong, Qi	Univ. of California, Santa Cruz
Royston, Johannes	Univ. of California, Berkeley
Kaminer, Isaac	Naval Postgraduate School
11:40-12:00	MoA15.6
<i>A Cooperative Conjugate Gradient Method for Linear Systems Permitting Multithread Implementation of Low Complexity</i> , pp. 638-643.	
Bhaya, Amit	Federal Univ. of Rio De Janeiro
Bliman, Pierre-Alexandre J	INRIA - Rocquencourt
Niedu, Guilherme	Federal Univ. of Rio De Janeiro
Pazos, Fernando Agustin	Federal Univ. of Rio De Janeiro
12:00-12:20	MoA15.7
<i>Path-Following H2/Hinf Design of Dynamic Output-Feedback Controllers Via LMI's</i> , pp. 644-649.	
Ostertag, Eric	Univ. of Strasbourg

11:20-11:40	MoA16.5
<i>Towards a Fixed Point QP Solver for Predictive Control (I)</i> , pp. 675-680.	
Jerez, Juan Luis	Imperial Coll. London
Constantinides, George A.	Imperial Coll. London
Kerrigan, Eric C.	Imperial Coll. London
11:40-12:00	MoA16.6
<i>Dynamic Optimization with CasADI (I)</i> , pp. 681-686.	
Andersson, Joel	Katholieke Univ. Leuven
Akesson, Johan	Lund Univ.
Diehl, Moritz	Katholieke Univ. Leuven
12:00-12:20	MoA16.7
<i>High-Speed Moving Horizon Estimation Based on Automatic Code Generation (I)</i> , pp. 687-692.	
Ferreau, Hans Joachim	Katholieke Univ. Leuven
Kraus, Tom	Katholieke Univ. Leuven
Vukov, Milan	Katholieke Univ. Leuven
Saeys, Wouter	Katholieke Univ. Leuven
Diehl, Moritz	Katholieke Univ. Leuven

MoA16	Haleakala Ballroom 3
Embedded Optimization for Control and Estimation (Invited Session)	
Chair: Kerrigan, Eric C.	Imperial Coll. London
Co-Chair: Bemporad, Alberto	IMT Inst. for Advanced Studies Lucca
Organizer: Kerrigan, Eric C.	Imperial Coll. London
10:00-10:20	MoA16.1
<i>Iteration Complexity of an Inexact Augmented Lagrangian Method for Constrained MPC (I)</i> , pp. 650-655.	
Nedelcu, Andrei Valentin	Pol. Univ. Bucharest
Necoara, Ion	Pol. Univ. Bucharest
10:20-10:40	MoA16.2
<i>Piecewise Affine Direct Virtual Sensors with Reduced Complexity (I)</i> , pp. 656-661.	
Rubagotti, Matteo	Nazarbayev Univ.
Poggi, Tomaso	ESS-Bilbao
Bemporad, Alberto	IMT Inst. for Advanced Studies Lucca
Storace, Marco	Univ. of Genoa
10:40-11:00	MoA16.3
<i>An Accelerated Dual Gradient-Projection Algorithm for Linear Model Predictive Control (I)</i> , pp. 662-667.	
Patrinos, Panagiotis	IMT Inst. for Advanced Studies Lucca
Bemporad, Alberto	IMT Inst. for Advanced Studies Lucca
11:00-11:20	MoA16.4
<i>Efficient Interior Point Methods for Multistage Problems Arising in Receding Horizon Control (I)</i> , pp. 668-674.	
Domahidi, Alexander	ETH Zurich
Zgraggen, Aldo Urban	ETH Zurich
Zeilinger, Melanie N.	École Pol. Fédérale de Lausanne (EPFL)
Morari, Manfred	ETH Zurich
Jones, Colin Neil	École Pol. Fédérale de Lausanne (EPFL)

MoA17	Haleakala Ballroom 5
Switched Systems I (Regular Session)	
Chair: Parrilo, Pablo A.	Massachusetts Inst. of Tech.
Co-Chair: Egerstedt, Magnus	Georgia Inst. of Tech.
10:00-10:20	MoA17.1
<i>Nice-Reachability Results for Discrete-Time Linear Switched Systems with Applications to Stability under Arbitrary Switching Laws (I)</i> , pp. 693-698.	
Monovich Wahrmann, Tal	IAI - MLM Div.
Margaliot, Michael	Tel Aviv Univ.
10:20-10:40	MoA17.2
<i>Projection-Based Switched System Optimization: Absolute Continuity of the Line Search</i> , pp. 699-706.	
Caldwell, Timothy	Northwestern Univ.
Murphrey, Todd	Northwestern Univ.
10:40-11:00	MoA17.3
<i>Switching Time Optimization in Discretized Hybrid Dynamical Systems</i> , pp. 707-712.	
Flabkamp, Kathrin	Univ. of Paderborn
Murphrey, Todd	Northwestern Univ.
Ober-Blöbaum, Sina	Univ. of Paderborn
11:00-11:20	MoA17.4
<i>A Controlled-Precision Algorithm for Mode-Switching Optimization</i> , pp. 713-718.	
Wardi, Yorai	Georgia Inst. of Tech.
Egerstedt, Magnus	Georgia Inst. of Tech.
Twu, Philip	Georgia Inst. of Tech.
11:20-11:40	MoA17.5
<i>Trade-Offs between Control and Mode-Observability Properties for Switching Linear Systems</i> , pp. 719-724.	
Baglietto, Marco	Univ. of Genova
Battistelli, Giorgio	Univ. of Florence
Tesi, Pietro	Univ. of Genova

11:40-12:00	MoA17.6	Hibiscus 2
<i>L_2-Induced Norm of Discrete-Time Switched Linear Systems: Solutions and Algorithms</i> , pp. 725-730.		
Shi, Dawei Chen, Tongwen	Univ. of Alberta Univ. of Alberta	
12:00-12:20	MoA17.7	
<i>Joint Spectral Radius of Rank One Matrices and the Maximum Cycle Mean Problem</i> , pp. 731-733.		
Ahmadi, Amir Ali Parrilo, Pablo A.	Massachusetts Inst. of Tech. Massachusetts Inst. of Tech.	
MoB01	Hibiscus 1	
Networked Control Systems II (Regular Session)		
Chair: Zampieri, Sandro Co-Chair: Lin, Fu	Univ. di Padova Univ. of Minnesota	
14:00-14:20	MoB01.1	
<i>Performance of Leader-Follower Networks in Directed Trees and Lattices</i> , pp. 734-739.		
Lin, Fu Fardad, Makan Jovanovic, Mihailo	Univ. of Minnesota Syracuse Univ. Univ. of Minnesota	
14:20-14:40	MoB01.2	
<i>Emulation-Based Tracking Solutions for Nonlinear Networked Control Systems</i> , pp. 740-745.		
Postoyan, Romain Van De Wouw, Nathan Nesic, Dragan Heemels, W.P.M.H.	CNRS-CRAN Eindhoven Univ. of Tech. Univ. of Melbourne Eindhoven Univ. of Tech.	
14:40-15:00	MoB01.3	
<i>Stabilizing a Random Dynamics Network with a Random Communications Network</i> , pp. 746-751.		
Manaffam, Saeed Razeghi-Jahromi, Mohammad Seyed, Alireza	Univ. of Rochester Univ. of Rochester Univ. of Central Florida	
15:00-15:20	MoB01.4	
<i>Semiglobal Practical Stability of a Class of Parameterized Networked Control Systems</i> , pp. 752-756.		
Wang, Bin Nesic, Dragan	Univ. of Melbourne Univ. of Melbourne	
15:20-15:40	MoB01.5	
<i>Disturbance Propagation in Strings of Vehicles with Limited Leader Information</i> , pp. 757-762.		
Zhao, Yingbo Minero, Paolo Gupta, Vijay	Univ. of Notre Dame Univ. of Notre Dame Univ. of Notre Dame	
15:40-16:00	MoB01.6	
<i>Moving Horizon Estimation for Networked Systems with Packet Dropouts</i> , pp. 763-768.		
Liu, Andong Yu, Li Zhang, Wenan	Zhejiang Univ. of Tech. Zhejiang Univ. of Tech. Zhejiang Univ. of Tech.	
MoB02		Hibiscus 2
Sensor Networks I (Regular Session)		
Chair: Battistelli, Giorgio Co-Chair: Chisci, Luigi	Univ. di Firenze Univ. di Firenze	
14:00-14:20		MoB02.1
<i>Event-Triggered Filtering with Application to Target Tracking in Binary Sensor Networks</i> , pp. 769-774.		
Lee, Sangjin Liu, Weiyi Hwang, Inseok	Purdue Univ. Purdue Univ. Purdue Univ.	
14:20-14:40		MoB02.2
<i>A Distributed Estimation Method for Sensor Networks Based on Pareto Optimization</i> , pp. 775-781.		
Boem, Francesca Xu, Yuzhe Fischione, Carlo Parisini, Thomas	Univ. of Trieste KTH Royal Inst. of Tech. KTH Royal Inst. of Tech. Imperial Coll. & Univ. of Trieste	
14:40-15:00		MoB02.3
<i>Distributed Input and State Estimation for Linear Discrete-Time Systems</i> , pp. 782-787.		
Esna Ashari, Alireza Kibangou, Alain Garin, Federica	INRIA - Grenoble Univ. Joseph Fourier-CNRS INRIA	
15:00-15:20		MoB02.4
<i>Simultaneous Scan-Based Emitter Passive Localization and Receiver Trajectory Optimization</i> , pp. 788-793.		
Liang, Yueqian Jia, Yingmin Du, Junping Zhang, Jun	Beihang Univ. (BUAA) Beihang Univ. (BUAA) Beijing Univ. of Posts and Telecommunications Beihang Univ. (BUAA)	
15:20-15:40		MoB02.5
<i>Consensus-Based Algorithms for Distributed Filtering</i> , pp. 794-799.		
Battistelli, Giorgio Chisci, Luigi Mugnai, Giovanni Farina, Alfonso Graziano, Antonio	Univ. di Firenze Univ. di Firenze Univ. di Firenze Selex - Sistemi Integrati SELEX Sistemi Integrati	
15:40-16:00		MoB02.6
<i>Data-Driven Strategies for Selective Data Transmission in Sensor Networks</i> , pp. 800-805.		
Battistelli, Giorgio Benavoli, Alessio Chisci, Luigi	Univ. di Firenze SUPSI Univ. di Firenze	
MoB03		Hibiscus 3
Agents and Autonomous Systems II (Regular Session)		
Chair: Mathew, George Co-Chair: Morbidi, Fabio	United Tech. Res. Center, Inc., Johannes Kepler Univ. Linz	

14:00-14:20	MoB03.1
<i>A Static Coverage Algorithm for Locational Optimization</i> , pp. 806-811.	
Mathew, George	United Tech. Res. Center, Inc.
Surana, Amit	United Tech. Res. Center, Inc.
14:20-14:40	MoB03.2
<i>On the Properties of the Deformed Consensus Protocol</i> , pp. 812-817.	
Morbidi, Fabio	Johannes Kepler Univ. Linz
14:40-15:00	MoB03.3
<i>Leader Selection in Multi-Agent Systems for Smooth Convergence Via Fast Mixing</i> , pp. 818-824.	
Clark, Andrew	Univ. of Washington
Alomair, Basel	King Abdulaziz City for Science and Tech.
Bushnell, Linda	Univ. of Washington
Poovendran, Radha	Univ. of Washington
15:00-15:20	MoB03.4
<i>Consensus Algorithms Design for Constrained Heterogeneous Multi-Agent Systems</i> , pp. 825-830.	
Abdessameud, Abdelkader	Univ. of Western Ontario
Tayebi, Abdelhamid	Lakehead Univ.
Polushin, Ilia G.	Western Univ.
15:20-15:40	MoB03.5
<i>Optimal Leader Allocation in UAV Formation Pairs under Costly Switching</i> , pp. 831-836.	
Richert, Dean	Univ. of California, San Diego
Cortes, Jorge	Univ. of California, San Diego
15:40-16:00	MoB03.6
<i>Cooperative Control of Uncertain Multivehicle Systems</i> , pp. 837-842.	
Yucelen, Tansel	Georgia Inst. of Tech.
Johnson, Eric N.	Georgia Inst. of Tech.
MoB04 Plumeria 1	
Stochastic Optimal Control II (Regular Session)	
Chair: Johansson, Karl H.	KTH Royal Inst. of Tech.
Co-Chair: Baczynski, Jack	LNCC
14:00-14:20	MoB04.1
<i>Communication Scheduling and Remote Estimation with Energy Harvesting Sensor</i> , pp. 843-848.	
Nayyar, Ashutosh	Univ. of Illinois, Urbana-Champaign
Basar, Tamer	Univ. of Illinois, Urbana-Champaign
Teneketzis, Demosthenis	Univ. of Michigan
Veeravalli, Venugopal V.	Univ. of Illinois, Urbana-Champaign
14:20-14:40	MoB04.2
<i>Analysis of Non-Linear Behavior - a Sensitivity-Based Approach</i> , pp. 849-854.	
Cao, Xi-Ren	Shanghai Jiao Tong Univ.
Wan, Xiangwei	Shanghai Jiao Tong Univ.
14:40-15:00	MoB04.3
<i>Limited Model Information Control Design for Linear Discrete-Time Systems with Stochastic Parameters</i> , pp. 855-861.	
Farokhi, Farhad	KTH Royal Inst. of Tech.
Johansson, Karl H.	KTH Royal Inst. of Tech.
15:00-15:20	MoB04.4
<i>A Risk Sensitive Performance Index for Control Problems with a View to Markov Jump Systems</i> , pp. 862-869.	
Baczynski, Jack	LNCC
15:20-15:40	MoB04.5
<i>Parameterized Penalties in the Dual Representation of Markov Decision Processes</i> , pp. 870-876.	
Ye, Fan	Univ. of Illinois at Urbana-Champaign
Zhou, Enlu	Univ. of Illinois at Urbana-Champaign
15:40-16:00	MoB04.6
<i>Optimality of Myopic Policy for a Class of Monotone Affine Restless Multi-Armed Bandits</i> , pp. 877-882.	
Mansourifard, Parisa	Univ. of Southern California
Javidi, Tara	Univ. of California, San Diego
Krishnamachari, Bhaskar	Univ. of Southern California
MoB05 Plumeria 2	
System Identification II (Regular Session)	
Chair: Gevers, Michel	EC Louvain and Vrije Univ. Brussels
Co-Chair: Van den Hof, Paul M.J.	Eindhoven Univ. of Tech.
14:00-14:20	MoB05.1
<i>Bias Reduction in Transfer Function Identification (I)</i> , pp. 883-888.	
Anderson, Brian D.O.	Australian National Univ.
Gevers, Michel	UC Louvain and Vrije Univ. Brussels
14:20-14:40	MoB05.2
<i>New Approach to Noncausal Identification of Nonstationary Stochastic Systems Subject to Both Smooth and Abrupt Parameter Changes</i> , pp. 889-894.	
Niedzwiecki, Maciej	Tech. Univ. of Gdansk
Gackowski, Szymon	Tech. Univ. of Gdansk
14:40-15:00	MoB05.3
<i>Identification in Dynamic Networks with Known Interconnection Topology</i> , pp. 895-900.	
Van den Hof, Paul M.J.	Eindhoven Univ. of Tech.
Dankers, Arne	Delft Univ. of Tech.
Heuberger, Peter S.C.	Delft Univ. of Tech.
Bombois, Xavier	Delft Univ. of Tech.
15:00-15:20	MoB05.4
<i>Dynamic Network Identification Using the Direct Prediction-Error Method</i> , pp. 901-906.	
Dankers, Arne	Delft Univ. of Tech.
Van den Hof, Paul M.J.	Eindhoven Univ. of Tech.
Heuberger, Peter S.C.	Eindhoven Univ. of Tech.
Bombois, Xavier	Delft Univ. of Tech.

15:20-15:40	MoB05.5
<i>Adaptive Experiment Design for ARMAX Systems</i> , pp. 907-912.	
Huang, Lirong	KTH Royal Inst. of Tech.
Hjalmarsson, Håkan	KTH Royal Inst. of Tech.
Gerencsér, László	MTA SZTAKI
15:40-16:00	MoB05.6
<i>On the Identification of Fast Dynamics Using Slow Rate Camera Measurements</i> , pp. 913-918.	
Tani, Jacopo	Rensselaer Pol. Inst.
Mishra, Sandipan	Rensselaer Pol. Inst.
Wen, John T.	Rensselaer Pol. Inst.
MoB06	Plumeria 3
Robust Control II (Regular Session)	
Chair: Scherer, Carsten W.	Univ. of Stuttgart
Co-Chair: MacKunis, William	Embry-Riddle Aeronautical Univ.
14:00-14:20	MoB06.1
<i>Robust High Order Augmented Observer Based Control for Nonlinear Systems</i> , pp. 919-924.	
Kim, Wonhee	Hanyang Univ.
Chung, Chung Choo	Hanyang Univ.
14:20-14:40	MoB06.2
<i>Robust and Resilient Finite-Time Bounded Observer for a Class of Discrete-Time Nonlinear Systems with Nonlinear Measurements</i> , pp. 925-930.	
ElBsat, Mohammad	Marquette Univ.
Yaz, Edwin	Marquette Univ.
14:40-15:00	MoB06.3
<i>Uncertainty Modeling and Robust Stability Analysis of a Synchrotron Electron Beam Stabilisation Control System</i> , pp. 931-936.	
Gayadeen, Sandira	Univ. of Oxford
Duncan, Stephen	Univ. of Oxford
15:00-15:20	MoB06.4
<i>Robust Attitude Tracking Control of a Quadrotor Helicopter in the Presence of Uncertainty</i> , pp. 937-942.	
Ton, Chau	Embry-Riddle Aeronautical Univ.
MacKunis, William	Embry-Riddle Aeronautical Univ.
15:20-15:40	MoB06.5
<i>A Note on Disturbance Observer with Unknown Relative Degree of the Plant</i> , pp. 943-948.	
Jo, Nam H.	Soongsil Univ.
Joo, Young Jun	Seoul National Univ.
Shim, Hyungbo	Seoul National Univ.
Son, Young Ik	Myongji Univ.
15:40-16:00	MoB06.6
<i>Rejection of Polynomial-In-Time Disturbances Via Disturbance Observer with Guaranteed Robust Stability</i> , pp. 949-954.	
Park, Gyunghoon	Seoul National Univ.
Joo, Young Jun	Seoul National Univ.
Shim, Hyungbo	Seoul National Univ.
Back, Juhoon	Kwangwoon Univ.

MoB07	Maile 1
Distributed Parameter Systems I (Invited Session)	
Chair: Demetriou, Michael A.	Worcester Pol. Inst.
Co-Chair: Djouadi, Seddik, M.	Univ. of Tennessee
Organizer: Demetriou, Michael A.	Worcester Pol. Inst.
Organizer: Fahroo, Fariba	AFOSR
14:00-14:20	MoB07.1
<i>Estimation of Spatial Fields Using Asymptotic Embedding Methods and Lagrangian Sensing (I)</i> , pp. 955-960.	
Demetriou, Michael A.	Worcester Pol. Inst.
Fahroo, Fariba	AFOSR
14:20-14:40	MoB07.2
<i>Reduced Order Modeling for Fluid Flows Subject to Quadratic Type Nonlinearities (I)</i> , pp. 961-966.	
Sahyoun, Samir	Univ. of Tennessee
Dong, Jin	Univ. of Tennessee
Djouadi, Seddik, M.	Univ. of Tennessee
14:40-15:00	MoB07.3
<i>Control and Sensitivity Reduction for a Viscous Burgers' Equation (I)</i> , pp. 967-972.	
Burns, John A	Virginia Tech.
Allen, Edward	Texas Tech. Univ.
Gilliam, David S.	Texas Tech. Univ.
15:00-15:20	MoB07.4
<i>On Optimal Sensor Placement for Spatio-Temporal Temperature Estimation in Large Battery Packs (I)</i> , pp. 973-978.	
Wolf, Philipp	Univ. of Stuttgart
Moura, Scott	Univ. of California, San Diego
Krstic, Miroslav	Univ. of California, San Diego
15:20-15:40	MoB07.5
<i>Sliding Mode and Active Disturbance Rejection Control to Stabilization of One-Dimensional Anti-Stable Wave Equations Subject to Disturbance in Boundary Input (I)</i> , pp. 979-984.	
Guo, Bao-Zhu	Chinese Acad. of Sciences
Jin, Feng-Fei	Univ. of the Witwatersrand
Yao, Cui-Zhen	Beijing Inst. of Tech.
15:40-16:00	MoB07.6
<i>Sliding Mode Control Based on an Inverse Compensator Design for Hysteretic Smart Systems (I)</i> , pp. 985-990.	
McMahan, Jerry	North Carolina State Univ.
Smith, Ralph C.	North Carolina State Univ.
MoB08	Maile 2
Nonlinear Systems II (Regular Session)	
Chair: Guay, Martin	Queen's Univ.
Co-Chair: Morin, Pascal	UPMC
14:00-14:20	MoB08.1
<i>Motion Planning by the Homotopy Continuation Method for Control-Affine Systems: Sublinear Growth Conditions</i> , pp. 991-996.	
Amiss, Scott	Queen's Univ.
Guay, Martin	Queen's Univ.

14:20-14:40	MoB08.2	
<i>Control of Nonlinear Systems with Symmetries Using Chaos</i> , pp. 997-1002.		
Reist, Philipp	ETH Zurich	
D'Andrea, Raffaello	ETH Zurich	
14:40-15:00	MoB08.3	
<i>Feedback Control of the General Two-Trailers System with the Transverse Function Approach</i> , pp. 1003-1010.		
Morin, Pascal	UPMC	
Samson, Claude	INRIA Sophia-Antipolis	
15:00-15:20	MoB08.4	
<i>Robustness of Steady-State Optimality in Economic Model Predictive Control</i> , pp. 1011-1016.		
Muller, Matthias A.	Univ. of Stuttgart	
Allgower, Frank	Univ. of Stuttgart	
15:20-15:40	MoB08.5	
<i>MIMO Conditional Servo-Compensator for a Class of Nonlinear Systems</i> , pp. 1017-1022.		
Nguyen, Van Cuong	IBISC - Univ. d'Evry	
Damm, Gilney	Evry Univ.	
15:40-16:00	MoB08.6	
<i>Mixed Linear Complementarity Problems for the Analysis of Limit Cycles in Piecewise Linear Systems</i> , pp. 1023-1028.		
Sessa, Valentina	Univ. of Sannio	
Iannelli, Luigi	Univ. of Sannio	
Vasca, Francesco	Univ. of Sannio	
MoB09	Maile 3	
Biological Systems I (Regular Session)		Pikake 1
Chair: Hara, Shinji	Univ. of Tokyo	
Co-Chair: Klein, Daniel J.	Intellectual Ventures Lab.	
14:00-14:20	MoB09.1	
<i>Synchronization of a Budding Yeast Cell Culture by Manipulating Inner Cell Cycle Concentrations</i> , pp. 1029-1034.		
Wegerhoff, Sven	TU Dortmund	
Neymann, Tobias Claus	TU Dortmund	
Engell, Sebastian	TU Dortmund	
14:20-14:40	MoB09.2	
<i>Data-Driven Graph Reconstruction Using Compressive Sensing</i> , pp. 1035-1040.		
Chang, Young Hwan	Univ. of California, Berkeley	
Tomlin, Claire J.	Univ. of California, Berkeley	
14:40-15:00	MoB09.3	
<i>Relationship Formation and Flow Control Algorithms for Generating Age-Structured Networks in HIV Modeling</i> , pp. 1041-1046.		
Klein, Daniel J.	Intellectual Ventures Lab.	
15:00-15:20	MoB09.4	
<i>Analytic Computation of the Integrated Response in Nonlinear Reaction-Diffusion Systems</i> , pp. 1047-1052.		
López-Caamal, Fernando	National Univ. of Ireland, Maynooth	
Garcia, Miriam R.	National Univ. of Ireland, Maynooth	
Oyarzun, Diego A.	Imperial Coll. London	
Middleton, Richard H.	Univ. of Newcastle	
15:20-15:40	MoB09.5	
<i>Noise-Induced Spatial Pattern Formation in Stochastic Reaction-Diffusion Systems</i> , pp. 1053-1058.		
Hori, Yutaka	Univ. of Tokyo	
Hara, Shinji	Univ. of Tokyo	
15:40-16:00	MoB09.6	
<i>Synchronization of Biological Neural Network Systems with Stochastic Perturbations and Time Delays</i> , pp. 1059-1064.		
Zeng, Xianlin	Texas Tech. Univ.	
Hui, Qing	Texas Tech. Univ.	
Haddad, Wassim M.	Georgia Inst. of Tech.	
Hayakawa, Tomohisa	Tokyo Inst. of Tech.	
Bailey, James M.	Northeast Georgia Medical Center	
MoB10		
Quantum Information and Control I (Regular Session)		
Chair: Maalouf, Aline I.	Univ. of New South Wales at ADFA	
Co-Chair: Petersen, Ian R.	Univ. of New South Wales at ADFA	
14:00-14:20	MoB10.1	
<i>Time-Optimal Frictionless Atom Cooling in Harmonic Traps (I)</i> , pp. 1065-1071.		
Stefanatos, Dionisis		
Schaettler, Heinz M.	Washington Univ.	
Li, Jr-Shin	Washington Univ.	
14:20-14:40	MoB10.2	
<i>Quantum State Preparation by Controlled Dissipation in Finite Time: From Classical to Quantum Controllers</i> , pp. 1072-1077.		
Baggio, Giacomo	Univ. of Padova	
Ticozzi, Francesco	Univ. di Padova	
Viola, Lorenza	Dartmouth Coll.	
14:40-15:00	MoB10.3	
<i>Robust Stability of Quantum Systems with a Nonlinear Coupling Operator</i> , pp. 1078-1082.		
Petersen, Ian R.	Univ. of New South Wales at ADFA	
Ugrinovskii, Valery	Univ. of New South Wales	
James, Matthew R.	Australian National Univ.	
15:00-15:20	MoB10.4	
<i>Small Time Reachable Set of Bilinear Quantum Systems</i> , pp. 1083-1087.		
Boussaïd, Nabile	Univ. de Franche-Comté	
Caponigro, Marco	Rutgers Univ.	
Chambrion, Thomas	Univ. de Lorraine	

15:20-15:40	MoB10.5	
<i>On the Physical Realizability of a Class of Nonlinear Quantum Systems</i> , pp. 1088-1092.		
Maalouf, Aline I.	Univ. of New South Wales at ADFA	
Petersen, Ian R.	Univ. of New South Wales at the Australian Defence Force Acad.	
15:40-16:00	MoB10.6	
<i>Synthesis and Structure of Mixed Quantum-Classical Linear Systems</i> , pp. 1093-1098.		
Wang, Shi	Australian National Univ.	
Nurdin, Hendra Ishwara	Univ. of New South Wales	
Zhang, Guofeng	The Hong Kong Pol. Univ.	
James, Matthew R.	Australian National Univ.	
MoB11	Pikake 2	
Electrical Power Systems II (Regular Session)		
Chair: Xu, Huan	California Inst. of Tech.	
Co-Chair: Goulart, Paul J.	ETH Zurich	
14:00-14:20	MoB11.1	
<i>Dynamic Pricing of Power in Smart-Grid Networks</i> , pp. 1099-1104.		
Wang, Qingsi	Univ. of Michigan	
Liu, Mingyan	Univ. of Michigan	
Jain, Rahul	Univ. of Southern California	
14:20-14:40	MoB11.2	
<i>On Power Sharing and Stability in Autonomous Inverter-Based Microgrids</i> , pp. 1105-1110.		
Schiffer, Johannes	Tech. Univ. Berlin	
Anta, Adolfo	Tech. Univ. Berlin	
Trung, Truong Duc	Tech. Univ. Berlin	
Raisch, Joerg	Tech. Univ. Berlin	
Sezi, Tevfik	Siemens AG	
14:40-15:00	MoB11.3	
<i>Robust Reserve Operation in Power Systems Using Affine Policies</i> , pp. 1111-1117.		
Warrington, Joseph	ETH Zurich	
Goulart, Paul J.	ETH Zurich	
Mariethoz, Sebastien	ETH Zurich	
Morari, Manfred	ETH Zurich	
15:00-15:20	MoB11.4	
<i>Distributed Multi-Hop Reactive Power Compensation in Smart Micro-Grids Subject to Saturation Constraints (I)</i> , pp. 1118-1123.		
Bolognani, Saverio	Univ. of Padova	
Caron, Andrea	Univ. of Padova	
Di Vittorio, Alberto	Univ. of Padova	
Romeres, Diego	Univ. of Padova	
Schenato, Luca	Univ. of Padova	
Zampieri, Sandro	Univ. di Padova	
15:20-15:40	MoB11.5	
<i>A Case Study on Reactive Protocols for Aircraft Electric Power Distribution</i> , pp. 1124-1129.		
Xu, Huan	California Inst. of Tech.	
Topcu, Ufuk	California Inst. of Tech.	
Murray, Richard M.	California Inst. of Tech.	
15:40-16:00	MoB11.6	
<i>Scheduling Heterogeneous Delay Tolerant Tasks in Smart Grid with Renewable Energy</i> , pp. 1130-1135.		
Chen, Shengbo	Ohio State Univ.	
Sinha, Prasun	Ohio State Univ.	
Shroff, Ness B.	Ohio State Univ.	
MoB12	Pikake 3	
Aerospace II (Regular Session)		
Chair: Serrani, Andrea	Ohio State Univ.	
Co-Chair: Gros, Sebastien	KU Leuven	
14:00-14:20	MoB12.1	
<i>Analysis of Linear L1 Adaptive Control Architectures for Aerospace Applications</i> , pp. 1136-1141.		
Pettersson, Anders	SAAB	
Astrom, Karl J.	Lund Univ.	
Robertsson, Anders	Lund Univ.	
Johansson, Rolf	Lund Univ.	
14:20-14:40	MoB12.2	
<i>Aircraft Control Based on Fast Non-Linear MPC & Multiple-Shooting</i> , pp. 1142-1147.		
Gros, Sebastien	KU Leuven	
Quirynen, Rien	KU Leuven	
Diehl, Moritz	KU Leuven	
14:40-15:00	MoB12.3	
<i>Visual Servo Aircraft Control for Tracking Parallel Curves</i> , pp. 1148-1153.		
Serra, Pedro	Inst. Superior Técnico	
Cunha, Rita	Inst. Superior Técnico	
Silvestre, Carlos	University of Macau	
Hamel, Tarek	Univ. de Nice Sophia Antipolis	
15:00-15:20	MoB12.4	
<i>Bifurcation Analysis of the Attitude Dynamics for a Magnetically Controlled Spacecraft</i> , pp. 1154-1159.		
Della Rossa, Fabio	Pol. di Milano	
Bergamasco, Marco	Pol. di Milano	
Lovera, Marco	Pol. di Milano	
15:20-15:40	MoB12.5	
<i>Control of Modular Aerial Robots: Combining under and Fully-Actuated Behaviors</i> , pp. 1160-1165.		
Forte, Francesco	Univ. di Bologna	
Naldi, Roberto	Univ. di Bologna	
Serrani, Andrea	Ohio State Univ.	
Marconi, Lorenzo	Univ. di Bologna	
15:40-16:00	MoB12.6	
<i>A Travelling Salesman Problem for a Class of Heterogeneous Multi-Vehicle Systems</i> , pp. 1166-1171.		
Garone, Emanuele	Univ. Libre de Bruxelles	
Determe, Jean-François	Univ. Libre de Bruxelles	
Naldi, Roberto	Univ. di Bologna	

MoB13	Ilma 1	
Robotics II (Regular Session)		
Chair: Tedrake, Russ	MIT	
Co-Chair: Parra-Vega, Vicente	CINVESTAV	
14:00-14:20	MoB13.1	
<i>Dynamic Self-Tuning PD Control for Tracking of Robot Manipulators</i> , pp. 1172-1179.		
Armendariz, Jorge	Ritsumeikan Univ.	
Parra-Vega, Vicente	CINVESTAV	
Garcia Rodriguez, Rodolfo	Univ. de los Andes	
Hirai, Shinichi	Ritsumeikan Univ.	
14:20-14:40	MoB13.2	
<i>A Unified Bayesian Approach for Prediction and Detection Using Mobile Sensor Networks</i> , pp. 1180-1185.		
Xu, Yunfei	Michigan State Univ.	
Choi, Jongeun	Michigan State Univ.	
Dass, Sarat	Michigan State Univ.	
Maiti, Taps	Michigan State Univ.	
14:40-15:00	MoB13.3	
<i>Extension of Zeheb-Walach Absolute Stability Criteria for Robot-Human Interactions</i> , pp. 1186-1191.		
Razi, Kamran	Queen's Univ.	
Hashtroodi-Zaad, Keyvan	Queen's Univ.	
15:00-15:20	MoB13.4	
<i>Design of Robust Nonlinear Force and Stiffness Controller for Pneumatic Actuators</i> , pp. 1192-1198.		
Taheri, Behzad	SMU	
Case, David	SMU	
Richer, Edmond	SMU	
15:20-15:40	MoB13.5	
<i>Optimal Control for Maximizing Potential Energy in Variable Stiffness Joints</i> , pp. 1199-1206.		
Haddadin, Sami	German Aerospace Center	
Özparpucu, Mehmet Can	TU Darmstadt, Robotics and Mechatronics Center, DLR	
Albu-Schaeffer, Alin	German Aerospace Center	
15:40-16:00	MoB13.6	
<i>Optimizing Robust Limit Cycles for Legged Locomotion on Unknown Terrain</i> , pp. 1207-1213.		
Dai, Hongkai	Massachusetts Inst. of Tech.	
Tedrake, Russ	Massachusetts Inst. of Tech.	
MoB14	Ilma 2	
Fault Detection II (Regular Session)		
Chair: Corradini, Maria Letizia	Univ. di Camerino	
Co-Chair: Speyer, Jason L.	Univ. of California at Los Angeles	
14:00-14:20	MoB14.1	
<i>A Hierarchical Design Methodology for Implementing Safety-Critical Constrained Controllers with Guaranteed Stability and Failure Detection</i> , pp. 1214-1219.		
Kvasnica, Michal	Slovak Univ. of Tech. in Bratislava	
Gondhalekar, Ravi	Univ. of California, Santa Barbara	
Fikar, Miroslav	Slovak Univ. of Tech. in Bratislava	
14:20-14:40	MoB14.2	
<i>Robust FDI Filters and Fault Sensitivity Analysis in Continuous-Time Descriptor Systems</i> , pp. 1220-1225.		
Corradini, Maria Letizia	Univ. di Camerino	
Cristofaro, Andrea	Univ. of Camerino	
Pettinari, Silvia	Univ. of Camerino	
14:40-15:00	MoB14.3	
<i>Fault Isolation for Linear Non-Minimum Phase Systems Using Dynamically Extended Observers</i> , pp. 1226-1232.		
Wahrburg, Arne	Tech. Univ. Darmstadt	
Adamy, Jürgen	Tech. Univ. Darmstadt	
15:00-15:20	MoB14.4	
<i>The Asymptotic Game Theoretic Multiple-Fault Detection Filter</i> , pp. 1233-1238.		
Murray, Emmanuel A.	Univ. of California at Los Angeles	
Speyer, Jason L.	Univ. of California at Los Angeles	
15:20-15:40	MoB14.5	
<i>Data-Driven Quality Monitoring and Fault Detection for Multimode Nonlinear Processes</i> , pp. 1239-1244.		
Haghani Abandan Sari, Adel	Univ. of Duisburg-Essen	
Ding, Steven X.	Univ. of Duisburg-Essen	
Esch, Jonas	Univ. of Duisburg Essen	
Hao, Haiyang	Univ. of Duisburg-Essen	
15:40-16:00	MoB14.6	
<i>MPCA Based Phase Identification Method and Its Application to Process Monitoring</i> , pp. 1245-1252.		
Chang, Yuqing	Northeastern Univ.	
Wang, Shu	Northeastern Univ.	
Tan, Shuai	Northeastern Univ.	
Wang, Fuli	Northeastern Univ.	
Mao, Zhi-zhong	Northeastern Univ.	
MoB15	Ilma 3	
Algebraic/Geometric Methods I (Regular Session)		
Chair: Duffaut Espinosa, Luis	Univ. of New South Wales at ADFA	
Co-Chair: Zenkov, Dmitry	North Carolina State Univ.	
14:00-14:20	MoB15.1	
<i>Practical Polynomial Formulas in MIMO Nonlinear Realization Problem</i> , pp. 1253-1258.		
Belikov, Juri	Tallinn Univ. of Tech.	
Kotta, Palle	Tallinn Univ. of Tech.	
Kotta, Ülle	Tallinn Univ. of Tech.	
Tonso, Maris	Tallinn Univ. of Tech.	
14:20-14:40	MoB15.2	
<i>Cascaded Analytic Nonlinear Systems Driven by Rough Paths</i> , pp. 1259-1264.		
Duffaut Espinosa, Luis	Univ. of New South Wales at ADFA	
Gray, W. Steven	Old Dominion Univ.	
Thitsa, Makhin	Old Dominion Univ.	

14:40-15:00	MoB15.3
<i>Stochastic Stability of an Attitude Estimation Algorithm on SO(3), pp. 1265-1270.</i>	
Solo, Victor	Univ. of New South Wales
15:00-15:20	MoB15.4
<i>Quotient Method for Stabilising a Ball-On-A-Wheel System - Experimental Results, pp. 1271-1278.</i>	
Sudarsandhari Shibani, Willson	Ec. Pol. Federale de Lausanne
Daly, Killian	Liebherr
Muellhaupt, Philippe	Ec. Pol. Federale de Lausanne
Bonvin, Dominique	Ec. Pol. Federale de Lausanne
15:20-15:40	MoB15.5
<i>Switching Surfaces and Null-Controllable Region of a Class of LTI Systems Using Grobner Basis, pp. 1279-1284.</i>	
Patil, Deepak	Indian Inst. of Tech. Bombay
Chakraborty, Debraj	Indian Inst. of Tech. Bombay
15:40-16:00	MoB15.6
<i>Controlled Lagrangians and Stabilization of Discrete Spacecraft with Rotor (I), pp. 1285-1290.</i>	
Peng, Yuanyuan	Claflin Univ.
Huynh, Syrena	North Carolina State Univ.
Zenkov, Dmitry	North Carolina State Univ.
Bloch, Anthony M.	Univ. of Michigan

MoB16	Haleakala Ballroom 3
Information Structures in Optimal Decentralized Control (Tutorial Session)	
Chair: Martins, Nuno C.	Univ. of Maryland
Co-Chair: Rotkowitz, Michael C.	Univ. of Maryland
Organizer: Martins, Nuno C.	Univ. of Maryland
Organizer: Rotkowitz, Michael C.	Univ. of Maryland
Organizer: Yuksel, Serdar	Queen's Univ.
Organizer: Mahajan, Aditya	McGill Univ.
14:00-14:05	MoB16.1
<i>Information Structures in Optimal Decentralized Control (I), pp. 1291-1306.</i>	
Mahajan, Aditya	McGill Univ.
Martins, Nuno C.	Univ. of Maryland
Rotkowitz, Michael C.	Univ. of Maryland
Yuksel, Serdar	Queen's Univ.
14:05-15:00	MoB16.2
<i>Team Decision Theory: Characterization of Information Structures, Basic Concepts and Solution Methods (I)*. </i>	
Mahajan, Aditya	McGill Univ.
Yuksel, Serdar	Queen's Univ.
15:00-16:00	MoB16.3
<i>Decentralized Control: Stabilizability, Invariance Principles and Parametrizations for Norm-Optimal Design (I)*. </i>	
Martins, Nuno C.	Univ. of Maryland
Rotkowitz, Michael C.	Univ. of Maryland

MoB17	Haleakala Ballroom 5
Switched Systems II (Regular Session)	
Chair: Fragozo, Marcelo	LNCC / MCT
Co-Chair: Jungers, Raphaël M.	Univ. of Louvain
14:00-14:20	MoB17.1
<i>Asynchronous Output-Feedback Stabilization of Discrete-Time Markovian Jump Linear Systems, pp. 1307-1312.</i>	
Shu, Zhan	Univ. of Southampton
Lam, James	Univ. of Hong Kong
Xiong, Junlin	Univ. of Science and Tech. of China
14:20-14:40	MoB17.2
<i>Equivalent LMI Constraints: Applications to Discrete-Time MJLS and Switched Systems, pp. 1313-1318.</i>	
Fioravanti, Andre R.	UNICAMP
Gonçalves, Alim P. C.	UNICAMP
Deaecto, Grace S.	UNICAMP
Geromel, Jose C.	UNICAMP
14:40-15:00	MoB17.3
<i>Stochastic Properties of Switched Riccati Differential Equations, pp. 1319-1324.</i>	
Ogura, Masaki	Texas Tech. Univ.
Martin, Clyde F.	Texas Tech. Univ.
15:00-15:20	MoB17.4
<i>Feedback Stabilization of Dynamical Systems with Switched Delays, pp. 1325-1330.</i>	
Jungers, Raphaël M.	Univ. of Louvain
D'Innocenzo, Alessandro	Univ. of L'Aquila
Di Benedetto, M. Domenica	Univ. of L'Aquila
15:20-15:40	MoB17.5
<i>New Results on the Robustness of Discrete-Time Markov Jump Linear Systems, pp. 1331-1336.</i>	
Todorov, Marcos	LNCC
Fragoso, Marcelo	LNCC / MCT
15:40-16:00	MoB17.6
<i>Invariance Principles for Switched Systems with Restrictions (I), pp. 1337-1342.</i>	
Mancilla-Aguilar, J. L.	Inst. Tecnológico de Buenos Aires
Garcia, Rafael A.	Inst. Tecnológico de Buenos Aires
MoC01	Hibiscus 1
Networked Control Systems III (Regular Session)	
Chair: Pola, Giordano	Univ. of L'Aquila
Co-Chair: Nair, Girish N.	Univ. of Melbourne
16:30-16:50	MoC01.1
<i>A Nonstochastic Information Theory for Feedback, pp. 1343-1348.</i>	
Nair, Girish N.	Univ. of Melbourne
16:50-17:10	MoC01.2
<i>Observability of Nonlinear NCS with Unsynchronized Sensor Clocks, pp. 1349-1355.</i>	
Philipp, Peter	Tech. Univ. München

17:10-17:30	MoC01.3	
<i>Consensus Control and Communication Graph Co-Design for MIMO Discrete-Time Multi-Agent Systems</i> , pp. 1356-1361.		
Liu, Fei	Jiangnan Univ.	
Gu, Guoxiang	Louisiana State Univ.	
Chen, Xiang	Univ. of Windsor	
17:30-17:50	MoC01.4	
<i>Packetized Predictive Control for Rate-Limited Networks Via Sparse Representation (I)</i> , pp. 1362-1367.		
Nagahara, Masaaki	Kyoto Univ.	
Quevedo, Daniel E.	Univ. of Newcastle	
Ostergaard, Jan	Aalborg Univ.	
17:50-18:10	MoC01.5	
<i>Is It Worth to Retransmit Lost Packets in Networked Control Systems?</i> , pp. 1368-1373.		
Blind, Rainer	Univ. of Stuttgart	
Allgower, Frank	Univ. of Stuttgart	
18:10-18:30	MoC01.6	
<i>Integrated Symbolic Design of Unstable Nonlinear Networked Control Systems</i> , pp. 1374-1379.		
Borri, Alessandro	Univ. of L'Aquila	
Pola, Giordano	Univ. of L'Aquila	
Di Benedetto, M. Domenica	Univ. of L'Aquila	
MoC02	Hibiscus 2	
Sensor Networks II (Regular Session)		
Chair: Johansson, Karl H.	KTH Royal Inst. of Tech.	
Co-Chair: Freris, Nikolaos	IBM Res. - Zurich	
16:30-16:50	MoC02.1	
<i>Distributed Calibration for Sensor Networks under Communication Errors and Measurement Noise</i> , pp. 1380-1385.		
Stankovic, Milos S.	KTH Royal Inst. of Tech.	
Stankovic, Srdjan S.	Univ. of Belgrade	
Johansson, Karl H.	KTH Royal Inst. of Tech.	
16:50-17:10	MoC02.2	
<i>Coverage-Aware Distributed Target Tracking for Mobile Sensor Networks</i> , pp. 1386-1391.		
Giannini, Silvia	Pol. di Bari	
Di Paola, Donato	National Res. Council (CNR)	
Rizzo, Alessandro	Pol. di Bari	
17:10-17:30	MoC02.3	
<i>Distributed Transmit Beamforming Via Feedback-Based Inter-Cluster Synchronization</i> , pp. 1392-1397.		
Hou, Jian	Zhejiang Univ.	
Yan, Gangfeng	Zhejiang Univ.	
Lin, Zhiyun	Zhejiang Univ.	
Xu, Wenyuan	Univ. of South Carolina	
17:30-17:50	MoC02.4	
<i>Asynchronous Distributed Principal Component Analysis Using Stochastic Approximation</i> , pp. 1398-1403.		
Morral, Gemma	Telecom ParisTech	
Bianchi, Pascal	Telecom ParisTech - CNRS/LTCI	
Jakubowicz, Jérémie	Telecom SudParis – CNRS	
17:50-18:10	MoC02.5	
<i>Maximum Lifetime Strategy for Target Monitoring in a Mobile Sensor Network with Obstacles</i> , pp. 1404-1410.		
Masoudimansour, Walid	Concordia Univ.	
Mahboubi, Hamid	Concordia Univ.	
Aghdam, Amir G.	Concordia Univ.	
Sayrafian-Pour, Kamran	National Inst. of Standard & Tech.	
18:10-18:30	MoC02.6	
<i>Fast Distributed Smoothing of Relative Measurements (I)</i> , pp. 1411-1416.		
Freris, Nikolaos	EPFL	
Zouzias, Anastasios	Univ. of Toronto	
MoC03		
Agents and Autonomous Systems III (Regular Session)		
Chair: Yu, Changbin (Brad)	Australian National Univ.	
Co-Chair: Cao, Ming	Univ. of Groningen	
16:30-16:50	MoC03.1	
<i>A Novel Result on Cluster Consensus Control of Multiple Generic Linear Agents</i> , pp. 1417-1422.		
Yu, Changbin (Brad)	Australian National Univ.	
Qin, Jiahua	Australian National Univ.	
16:50-17:10	MoC03.2	
<i>Modified Gradient Control for Acyclic Minimally Persistent Formations to Escape from Collinear Position</i> , pp. 1423-1427.		
Park, Myoung-Chul	Gwangju Inst. of Science and Tech. (GIST)	
Ahn, Hyo-Sung	Gwangju Inst. of Science and Tech. (GIST)	
Oh, Kwang-Kyo	Gwangju Inst. of Science and Tech. (GIST)	
17:10-17:30	MoC03.3	
<i>Formation Control of Mobile Agents without an Initial Common Sense of Orientation</i> , pp. 1428-1432.		
Oh, Kwang-Kyo	Gwangju Inst. of Science and Tech. (GIST)	
Ahn, Hyo-Sung	Gwangju Inst. of Science and Tech. (GIST)	
17:30-17:50	MoC03.4	
<i>Circle Formation for Anonymous Mobile Robots with Order Preservation</i> , pp. 1433-1438.		
Wang, Chen	Peking Univ.	
Xie, Guangming	Peking Univ.	
Cao, Ming	Univ. of Groningen	
Wang, Long	Peking Univ.	
17:50-18:10	MoC03.5	
<i>Adaptive Docking Using Range Measurements</i> , pp. 1439-1444.		
Fidan, Baris	Univ. of Waterloo	
Dasgupta, Soura	Univ. of Iowa	
Anderson, Brian D.O.	Australian National Univ.	
18:10-18:30	MoC03.6	
<i>Robustness Issues with Undirected Formations</i> , pp. 1445-1450.		
Belabbas, Mohamed Ali	Harvard	
Mou, Shaoshuai	Yale Univ.	
Morse, A. Stephen	Yale Univ.	
Anderson, Brian D.O.	Australian National Univ.	

MoC04		Plumeria 1
Stochastic Optimal Control III (Regular Session)		
Chair: Kushner, Harold J.		Brown Univ.
Co-Chair: Lindquist, Anders G.		KTH Royal Inst. of Tech.
16:30-16:50	MoC04.1	
<i>Modeling and Approximations for Stochastic Systems with State-Dependent Singular Controls and Wide-Band Noise</i> , pp. 1451-1458.		
Kushner, Harold J.		Brown Univ.
16:50-17:10	MoC04.2	
<i>Revisiting the Separation Principle in Stochastic Control</i> , pp. 1459-1465.		
Georgiou, Tryphon T.	Univ. of Minnesota	
Lindquist, Anders G.	Shanghai Jiao Tong Univ.	
17:10-17:30	MoC04.3	
<i>Relative Entropy and Free Energy Dualities: Connections to Path Integral and KL Control</i> , pp. 1466-1473.		
Theodorou, Evangelos	Univ. of Washington	
Todorov, Emanuel	Univ. of Washington	
17:30-17:50	MoC04.4	
<i>Multi-Objective Optimal Control of Stochastic Hybrid Systems</i> , pp. 1474-1479.		
Summers, Sean	ETH Zurich	
Lygeros, John	ETH Zurich	
17:50-18:10	MoC04.5	
<i>Quickest Detection of Market Shocks in Agent Based Models of the Order Book</i> , pp. 1480-1485.		
Krishnamurthy, Vikram	Univ. of British Columbia	
Aryan, Anup	Univ. of British Columbia	
18:10-18:30	MoC04.6	
<i>Probabilistically-Sound and Asymptotically-Optimal Algorithm for Stochastic Control with Trajectory Constraints</i> , pp. 1486-1493.		
Huynh, Vu	Massachusetts Inst. of Tech.	
Frazzoli, Emilio	Massachusetts Inst. of Tech.	

MoC05		Plumeria 2
System Identification III (Regular Session)		
Chair: Chiuso, Alessandro		Univ. di Padova
Co-Chair: van Wingerden, Jan-Willem		Delft Univ. of Tech.
16:30-16:50	MoC05.1	
<i>Measurement Noise Distribution As a Metric for Parameter Estimation in Dynamical Systems</i> , pp. 1494-1499.		
Lillacci, Gabriele	Univ. of California at Santa Barbara	
Khammash, Mustafa H.	ETH Zurich	

16:50-17:10	MoC05.2	
<i>Sparse Multiple Kernels for Impulse Response Estimation with Majorization Minimization Algorithms (I)</i> , pp. 1500-1505.		
Chen, Tianshi	Linköping Univ.	
Ljung, Lennart	Linköping Univ.	
Andersen, Martin	Linköping Univ.	
Chiuso, Alessandro	Univ. di Padova	
Carli, Francesca, P	Univ. of Padova	
Pillonetto, Gianluigi	Univ. of Padova	
17:10-17:30	MoC05.3	
<i>Convergence Analysis of an Online Approach to Parameter Estimation Problems Based on Binary Noisy Observations</i> , pp. 1506-1511.		
Bourgois, Laurent	SUPELEC	
Juillard, Jerome	SUPELEC	
17:30-17:50	MoC05.4	
<i>Bayesian Learning of Probability Density Functions: A Markov Chain Monte Carlo Approach</i> , pp. 1512-1517.		
Del Favero, Simone	Univ. of Padova	
Varagnolo, Damiano	KTH Royal Inst. of Tech.	
Pillonetto, Gianluigi	Univ. of Padova	
17:50-18:10	MoC05.5	
<i>Topology Identification of a Sparse Dynamic Network</i> , pp. 1518-1523.		
Seneviratne, Akila	Univ. of New South Wales	
Solo, Victor	Univ. of New South Wales	
MoC06		
Robust Control III (Regular Session)		
Chair: Wang, Sheng-Guo	Univ. of North Carolina at Charlotte	
Co-Chair: Gonçalves, Eduardo Nunes	Centro Federal de Educação Tecnológica de Minas Gerais	
16:30-16:50	MoC06.1	
<i>Robust Gain-Scheduled Controller Synthesis Is Convex for Systems without Control Channel Uncertainties</i> , pp. 1524-1529.		
Veenman, Joost	Univ. of Stuttgart	
Scherer, Carsten W.	Univ. of Stuttgart	
16:50-17:10	MoC06.2	
<i>Robust Decoupling PI Controllers for Multi-Loop Control</i> , pp. 1530-1535.		
Gonçalves, Bruno M.	Federal Univ. of Minas Gerais	
Gonçalves, Eduardo Nunes	Federal Univ. of Minas Gerais	
Palhares, Reinaldo Martinez	Federal Univ. of Minas Gerais	
Takahashi, Ricardo H. C.	Federal Univ. of Minas Gerais	
17:10-17:30	MoC06.3	
<i>Flexible Robust Sliding Mode Control for Uncertain Stochastic Systems with Time-Varying Delay and Structural Uncertainties</i> , pp. 1536-1541.		
Wang, Sheng-Guo	Univ. of North Carolina at Charlotte	
Bai, Libin	Univ. of North Carolina at Charlotte	

17:30-17:50	MoC06.4
<i>Revisiting Robust Stabilization of Coprime Factors: The General Case</i> , pp. 1542-1547.	
Engelken, Sönke	Enercon GmbH
Lanzon, Alexander	Univ. of Manchester
17:50-18:10	MoC06.5
<i>Distributed Robust Stability Analysis of Interconnected Uncertain Systems</i> , pp. 1548-1553.	
Andersen, Martin	Linköping Univ.
Hansson, Anders	Linköping Univ.
Khoshfetratpakazad, sina	Linköping Univ.
Rantzer, Anders	Lund Univ.
18:10-18:30	MoC06.6
<i>Stabilizing Any SISO LTI Plant with an Arbitrarily Large Uncertain Gain and Delay</i> , pp. 1554-1559.	
Miller, Daniel E.	Univ. of Waterloo
Gaudette, Darrell L.	Univ. of Waterloo

MoC07	Maile 1
Distributed Parameter Systems II (Invited Session)	
Chair: Demetriou, Michael A.	Worcester Pol. Inst.
Co-Chair: Fahroo, Fariba	AFOSR
Organizer: Demetriou, Michael A.	Worcester Pol. Inst.
Organizer: Fahroo, Fariba	AFOSR
16:30-16:50	MoC07.1
<i>Wellposedness and Stabilization of a Class of Infinite Dimensional Bilinear Control Systems (I)</i> , pp. 1560-1565.	
Daafouz, Jamal	CRAN, UMR CNRS - Nancy Univ.
Tucsnak, M.	Univ. of Nancy
Valein, Julie	Univ. of Nancy
16:50-17:10	MoC07.2
<i>Feedforward Output Regulation for Distributed Parameter Systems with Infinite-Dimensional Exosystems (I)</i> , pp. 1566-1571.	
Paunonen, Lassi	Tampere Univ. of Tech.
Pohjolainen, Seppo	Tampere Univ. of Tech.
17:10-17:30	MoC07.3
<i>Motion Planning for the 2D Stokes Equations (I)</i> , pp. 1572-1577.	
Meurer, Thomas	Vienna Univ. of Tech.
Saidani, Mourad	Vienna Univ. of Tech.
17:30-17:50	MoC07.4
<i>An Example of Thermal Regulation of a Two Dimensional Non-Isothermal Incompressible Flow (I)</i> , pp. 1578-1583.	
Aulisa, Eugenio	Texas Tech. Univ.
Burns, John A	Virginia Tech.
Gilliam, David S.	Texas Tech. Univ.
17:50-18:10	MoC07.5
<i>Tangential Nevanlinna-Pick Interpolation for Strong Stabilization of MIMO Distributed Parameter Systems (I)</i> , pp. 1584-1590.	
Wakaiki, Masashi	Kyoto Univ.
Yamamoto, Yutaka	Kyoto Univ.
Ozbay, Hitay	Bilkent Univ.

MoC08	Maile 2
Nonlinear Systems III (Regular Session)	
Chair: Bayrak, Alper	Izmir Inst. of Tech.
Co-Chair: Li, Shihua	Southeast Univ.
16:30-16:50	MoC08.1
<i>Online Time Delay Identification and Control for General Classes of Nonlinear Systems</i> , pp. 1591-1596.	
Bayrak, Alper	Izmir Inst. of Tech.
Tatlicioglu, Enver	Izmir Inst. of Tech.
16:50-17:10	MoC08.2
<i>Inverse Compensation Error of the Prandtl-Ishlinskii Model</i> , pp. 1597-1602.	
Al Janaideh, Mohammad	Univ. of Jordan
Su, Chun-Yi	Concordia Univ.
Rakheja, Subhash	Concordia Univ.
17:10-17:30	MoC08.3
<i>Extremum-Seeking Control for Periodic Steady-State Response Optimization</i> , pp. 1603-1608.	
Van De Wouw, Nathan	Eindhoven Univ. of Tech.
Haring, Mark	Norwegian Univ. of Science and Tech.
Nesic, Dragan	Univ. of Melbourne
17:30-17:50	MoC08.4
<i>Dynamic Generalized Controllability and Observability Functions with Applications to Model Reduction</i> , pp. 1609-1614.	
Sassano, Mario	Imperial Coll. London
Astolfi, Alessandro	Imperial Coll. & Univ. of Rome
17:50-18:10	MoC08.5
<i>On a Shubert Algorithm-Based Global Extremum Seeking Scheme</i> , pp. 1615-1620.	
Nesic, Dragan	Univ. of Melbourne
Nguyen, Thang	Univ. of Leicester
Tan, Ying	Univ. of Melbourne
Manzie, Chris	Univ. of Melbourne
18:10-18:30	MoC08.6
<i>Smooth Global Stabilization for a Class of Nonlinear Systems by Using the Methodology of Homogeneous with Monotone Degrees</i> , pp. 1621-1626.	
Tian, Weisong	Univ. of Texas at San Antonio
Qian, Chunjiang	Univ. of Texas at San Antonio
Zhang, Chuanlin	Southeast Univ.
Li, Shihua	Southeast Univ.
MoC09	Maile 3
Biological Systems II (Regular Session)	
Chair: Baheti, Radhakisan	National Science Foundation
Co-Chair: Hayakawa, Tomohisa	Tokyo Inst. of Tech.
16:30-16:50	MoC09.1
<i>The Collective Oscillation Period of Inter-Coupled Goodwin Oscillators</i> , pp. 1627-1632.	
Wang, Yongqiang	Univ. of California, Santa Barbara
Hori, Yutaka	Univ. of Tokyo
Hara, Shinji	Univ. of Tokyo
Doyle, Francis	Univ. of California, Santa Barbara

16:50-17:10	MoC09.2
<i>New Architecture for Patterning Gene Expression Using Zinc Finger Proteins and Small RNAs</i> , pp. 1633-1638.	
Hsia, Justin	Univ. of California, Berkeley
Holtz, William Joseph	Univ. of California, Berkeley
Maharbiz, Michel	Univ. of California, Berkeley
Arcak, Murat	Univ. of California, Berkeley
17:10-17:30	MoC09.3
<i>A Stochastic Mean Field Model for an Excitatory and Inhibitory Synaptic Drive Cortical Neuronal Network</i> , pp. 1639-1644.	
Hui, Qing	Texas Tech. Univ.
Haddad, Wassim M.	Georgia Inst. of Tech.
Bailey, James M.	Northeast Georgia Medical Center
Hayakawa, Tomohisa	Tokyo Inst. of Tech.
17:30-17:50	MoC09.4
<i>A Point Process Model-Based Framework Reveals Reinforcement Mechanisms in Striatum During High Frequency STN DBS</i> , pp. 1645-1650.	
SANTANELLO, SABATO	Johns Hopkins Univ.
Gale, John T.	Massachusetts General Hospital/Harvard Medical School
Montgomery, Erwin	Univ. of Alabama Birmingham
Sarma, Sridevi	Johns Hopkins Univ.
17:50-18:10	MoC09.5
<i>Charge-Balanced Time-Optimal Control for Spiking Neuron Oscillators</i> , pp. 1651-1656.	
Dasanayake, Isuru Sammana	Washington Univ. in St. Louis
Li, Jr-Shin	Washington Univ. in St. Louis
18:10-18:30	MoC09.6
<i>Optimal Information Dissemination in Epidemic Networks</i> , pp. 1657-1662.	
Darabi Sahneh, Faryad	Kansas State Univ.
Scoglio, Caterina	Kansas State Univ.
MoC10	
Quantum Information and Control II (Regular Session)	
Chair: Ticozzi, Francesco	Pikake 1 Univ. di Padova
Co-Chair: Dong, Daoyi	Univ. of New South Wales
16:30-16:50	MoC10.1
<i>Control through Operators for Quantum Chemistry</i> , pp. 1663-1667.	
Salomon, Julien	Univ. Paris-Dauphine
Turinici, Gabriel	Univ. Paris Dauphine
Rabitz, Herschel	Princeton Univ.
Laurent, Philippe	IRCCyN, Ec. des Mines de NANTES
16:50-17:10	MoC10.2
<i>Sampled-Data Design for Robust Decoherence Control of a Single Qubit</i> , pp. 1668-1673.	
Dong, Daoyi	Univ. of New South Wales
Petersen, Ian R.	Univ. of New South Wales at ADFA
Rabitz, Herschel	Princeton Univ.
17:10-17:30	MoC10.3
<i>Estimation of Quantum Channels: Identifiability and ML Methods</i> , pp. 1674-1679.	
Zorzi, Mattia	Univ. di Padova
Ticozzi, Francesco	Univ. di Padova
Ferrante, Augusto	Univ. di Padova
17:30-17:50	MoC10.4
<i>Quantum Observer for Linear Quantum Stochastic Systems</i> , pp. 1680-1684.	
Miao, Zibo	Australian National University
James, Matthew R.	Australian National University
17:50-18:10	MoC10.5
<i>Development of a Large Scanning-Range Atomic Force Microscope with Adaptive Complementary Sliding Mode Controller</i> , pp. 1685-1690.	
Huang, Kuan-Chia	National Taiwan Univ.
Wu, Jim Wei	National Taiwan Univ.
Chen, Jyun-Jhih	National Taiwan Univ.
Chen, Chih Lieh	National Taiwan Univ.
Chen, Mei-Yung	National Taiwan Univ.
Fu, Li-Chen	National Taiwan Univ.
18:10-18:30	MoC10.6
<i>Characterization and Moment Stability Analysis of Quasilinear Quantum Stochastic Systems with Quadratic Coupling to External Fields</i> , pp. 1691-1696.	
Vladimirov, Igor G.	Univ. of New South Wales at ADFA
Petersen, Ian R.	Univ. of New South Wales at ADFA
MoC11	
Electrical Power Systems III (Regular Session)	
Chair: Chung, Chung Choo	Pikake 2 Hanyang Univ.
Co-Chair: Iung, Claude	Inst. National Pol. de Lorraine
16:30-16:50	MoC11.1
<i>Linear and Impulse Control Systems for Plasma Unstable Vertical Position in Elongated Tokamak (I)</i> , pp. 1697-1702.	
Mitriškin, Yuri	V.A. Trapeznikov Inst. of Control Sciences
Zenckov, Semjon	V.A. Trapeznikov Inst. of Control Sciences Russian Acad.
Kartsev, Nikolai	Bauman Moscow State Tech. Univ.
Efremov, Alexander	V.A. Trapeznikov Inst. of Control Sciences Russian Acad.
Dokuka, Vladimir	Troitsk Inst. for Innovation & Fusion Res.
Khayrutdinov, Rustam	Troitsk Inst. for Innovation & Fusion Res.
16:50-17:10	MoC11.2
<i>A Solution to the Problem of Transient Stability of Multimachine Power Systems</i> , pp. 1703-1708.	
Casagrande, Daniele	Univ. of Udine
Astolfi, Alessandro	Imperial Coll. & Univ. of Rome
Ortega, Romeo	LSS-SUPELEC
Langarica Cordoba, Diego	LSS-SUPELEC

17:10-17:30	MoC11.3	
<i>Predictive Control of Coal Mills for Improving Supercritical Power Generation Process Dynamic Responses (I)</i> , pp. 1709-1714.		
Mohamed, Omar Wang, Jihong Al-Duri, Bushra Lu, Junfu Gao, Qirui Xue, Yali Liu, Xiangjie	Univ. of Birmingham Univ. of Warwick Univ. of Birmingham Tsinghua Univ. Tsinghua Univ. Tsinghua Univ. North China Electric Power Univ.	
17:30-17:50	MoC11.4	
<i>Passivity-Based Control with Nonlinear Damping for STATCOM System</i> , pp. 1715-1720.		
Gui, Yonghao Lee, Young Ok Han, Youngseong Kim, Wonhee Chung, Chung Choo	Hanyang Univ. Hanyang Univ. Hanyang Univ. Hyosung Co. Hanyang Univ. Hanyang Univ.	
17:50-18:10	MoC11.5	
<i>Explicit Model Predictive Control for Reduction of Wind Turbine Structural Loads</i> , pp. 1721-1726.		
Spudic, Vedrana Jelavic, Mate Baotic, Mato	Univ. of Zagreb Koncar - Electrical Engineering Inst. Univ. of Zagreb	
18:10-18:30	MoC11.6	
<i>Observer-Based Output-Feedback of a Multicellular Converter: Control Lyapunov Function -- Sliding Mode Approach</i> , pp. 1727-1732.		
Hauroigné, Pascal Riedinger, Pierre Iung, Claude	CRAN, Nancy Univ. CRAN Inst. National Pol. de Lorraine	
MoC12	Pikake 3	
Aerospace III (Regular Session)		
Chair: Gros, Sebastien Co-Chair: Soler Arnedo, Manuel	KU Leuven Univ. Rey Juan Carlos	
16:30-16:50	MoC12.1	
<i>Attitude Control of Spacecraft by NMPC with Consideration of Singularity Avoidance of CMG</i> , pp. 1733-1739.		
Ikeda, Yuichi Nakajima, Takashi Chida, Yuichi	Shinshu Univ. Shinshu Univ. Shinshu Univ.	
16:50-17:10	MoC12.2	
<i>Multiphase Mixed-Integer Optimal Control Framework for Aircraft Conflict Avoidance</i> , pp. 1740-1745.		
Soler Arnedo, Manuel Kamgarpour, Maryam Tomlin, Claire J. Staffetti, Ernesto	Univ. Rey Juan Carlos Swiss Federal Inst. of Tech. UC Berkeley Univ. Rey Juan Carlos	
17:10-17:30	MoC12.3	
<i>Discrete-Time Adaptive Control of a Nonlinear Aircraft Flight Dynamic System (NASA GTM) with Damage</i> , pp. 1746-1751.		
Guo, Jiaxing Tao, Gang	Univ. of Virginia Univ. of Virginia	
17:30-17:50	MoC12.4	
<i>Forward-Integration Riccati-Based Feedback Control for Spacecraft Rendezvous Maneuvers on Elliptic Orbits</i> , pp. 1752-1757.		
Weiss, Avishai Kolmanovsky, Ilya V. Baldwin, Morgan Erwin, Richard Scott Bernstein, Dennis S.	Univ. of Michigan Univ. of Michigan Air Force Res. Lab. Air Force Res. Lab. Univ. of Michigan	
17:50-18:10	MoC12.5	
<i>Attitude Estimation Based on Inertial and Position Measurements</i> , pp. 1758-1763.		
Gros, Sebastien Diehl, Moritz	KU Leuven KU Leuven	
18:10-18:30	MoC12.6	
<i>Space Debris Trajectory Estimation During Atmospheric Reentry Using Moving Horizon Estimator</i> , pp. 1764-1769.		
Suwantong, Rata Bertrand, Sylvain Dumur, Didier Beauvois, Dominique	ONERA ONERA Ec. Superieure D'Electricite Ec. Superieure D'Electricite	
MoC13		Ilima 1
Autonomous Robots (Regular Session)		
Chair: Khorrami, Farshad Co-Chair: Loria, Antonio	Pol. Inst. of NYU CNRS	
16:30-16:50	MoC13.1	
<i>Multi-Ordered Short-Range Mover Prediction Models for Tracking and Avoidance</i> , pp. 1770-1775.		
Overstreet, Jamahl Khorrami, Farshad	Pol. Inst. of NYU Pol. Inst. of NYU	
16:50-17:10	MoC13.2	
<i>A Lyapunov-Based Approach for Time-Coordinated 3D Path-Following of Multiple Quadrotors</i> , pp. 1776-1781.		
Cichella, Venanzio Kaminer, Isaac Xargay, Enric Dobrokhodov, Vladimir Hovakimyan, Naira Aguiar, A. Pedro Pascoal, Antonio Manuel	Univ. of Illinois, Urbana-Champaign Naval Postgraduate School Univ. of Illinois, Urbana-Champaign Naval Postgraduate School Univ. of Illinois, Urbana-Champaign Inst. Superior Tecnico Inst. Superior Tecnico	
17:10-17:30	MoC13.3	
<i>Model Predictive Obstacle Avoidance Control for Leg/Wheel Mobile Robots with Optimized Articulated Leg Configuration</i> , pp. 1782-1789.		
Takahashi, Naoki Nonaka, Kenichiro	Tokyo City Univ. Tokyo City Univ.	

17:30-17:50	MoC13.4
<i>Control of Flapping-Wing Rectifier Systems in Natural Oscillation</i> , pp. 1790-1795.	
Zhu, Lijun	Univ. of Newcastle
Chen, Zhiyong	Univ. of Newcastle
17:50-18:10	MoC13.5
<i>A Simple One-To-One Communication Algorithm for Formation-Tracking Control of Mobile Robots</i> , pp. 1796-1801.	
Kuvulmaz, Janset	Yildiz Tech. Univ.
Loria, Antonio	CNRS
18:10-18:30	MoC13.6
<i>Toward Force Control of a Quadrotor UAV in SO(3)</i> , pp. 1802-1809.	
Parra-Vega, Vicente	CINVESTAV
Sanchez, Anand	CINVESTAV
Izaguirre-Espinosa, Carlos	CINVESTAV
MoC14	Ilma 2
Fault Tolerant Systems (Regular Session)	
Chair: Franze', Giuseppe	Univ. Degli Studi della Calabria
Co-Chair: Edwards, Christopher	Univ. of Leicester
16:30-16:50	MoC14.1
<i>An Adaptive Actuator Failure Compensation Scheme for Spacecraft with Unknown Inertia Parameters</i> , pp. 1810-1815.	
Yao, Xuelian	Nanjing Univ. of Aeronautics and Astronautics
Tao, Gang	Univ. of Virginia
Ma, Yajie	Nanjing Univ. of Aeronautics and Astronautics
Qi, Ruiyun	Nanjing Univ. of Aeronautics and Astronautics
16:50-17:10	MoC14.2
<i>Developing Proof Carrying Code to Formally Assure Termination in Fault Tolerant Distributed Control Systems</i> , pp. 1816-1821.	
Neogi, Natasha A.	Univ. of Illinois
Herencia-Zapana, Heber	National Inst. of Aerospace
Jobredeaux, Romain Julien	Georgia Tech.
Feron, Eric	Georgia Tech.
17:10-17:30	MoC14.3
<i>Actuator Fault Tolerant Control: A Set-Theoretic Approach</i> , pp. 1822-1827.	
Franze', Giuseppe	Univ. degli Studi della Calabria
Tedesco, Francesco	Univ. degli Studi della Calabria
Famularo, Domenico	Univ. degli Studi della Calabria
17:30-17:50	MoC14.4
<i>Sensor Fault Tolerant Control Using a Robust LPV Based Sliding Mode Observer</i> , pp. 1828-1833.	
Alwi, Halim	Univ. of Leicester
Edwards, Christopher	Univ. of Exeter
Prathyush, Purushothama	Univ. of Exeter
Menon	
17:50-18:10	MoC14.5
<i>Fault-Tolerant Sensor Network Based on Fault Evaluation Matrix and Compensation for Intermittent Observation</i> , pp. 1834-1839.	
Kosugi, Kazuya	Keio Univ.
Tokumoto, Shinichiro	Keio Univ.
Namerikawa, Toru	Keio Univ.
18:10-18:30	MoC14.6
<i>An LPV Fault Tolerant Control Scheme Using Integral Sliding Modes</i> , pp. 1840-1845.	
Hamayun, Mirza Tariq	Univ. of Leicester
Alwi, Halim	Univ. of Leicester
Edwards, Christopher	Univ. of Exeter
MoC15	Ilma 3
Algebraic/Geometric Methods II (Regular Session)	
Chair: Aguilar, Cesar O	Naval Postgraduate School
Co-Chair: Carravetta, Francesco	IASI-CNR
16:30-16:50	MoC15.1
<i>Dual Algebraic Framework for Discrete-Time Nonlinear Control Systems</i> , pp. 1846-1851.	
Bartosiewicz, Zbigniew	Bialystok Univ. of Tech.
Kotta, Ülle	Inst. of Cybernetics at Tallinn Univ. of Tech.
Moog, Claude	CNRS
Mullari, Tanel	Inst. of Cybernetics at Tallinn Univ. of Tech.
Pawluszewicz, Ewa	Bialystok Tech. Univ.
16:50-17:10	MoC15.2
<i>Estimating and Enlarging the Domain of Attraction in IDA-PBC</i> , pp. 1852-1858.	
Kloiber, Tobias	TU München
Kotyczka, Paul	TU München
17:10-17:30	MoC15.3
<i>Some Results on the Problem of Global Exact Bilinearization for Nonlinear Delay Systems</i> , pp. 1859-1864.	
Carravetta, Francesco	IASI-CNR
17:30-17:50	MoC15.4
<i>Nonholonomic Regulators (I)</i> , pp. 1865-1870.	
Brockett, Roger	Harvard Univ.
17:50-18:10	MoC15.5
<i>Selecting a Monomial Basis for Sums of Squares Programming Over a Quotient Ring</i> , pp. 1871-1876.	
Permenter, Frank	Massachusetts Inst. of Tech.
Parrilo, Pablo A.	Massachusetts Inst. of Tech.
18:10-18:30	MoC15.6
<i>Local Controllability of Control-Affine Systems with Quadratic Drift and Constant Control-Input Vector Fields</i> , pp. 1877-1882.	
Aguilar, Cesar O	Naval Postgraduate School
MoC16	Haleakala Ballroom 3
Dynamic Programming, Optimization, and Learning (Regular Session)	
Chair: Lewis, Frank L.	Univ. of Texas at Arlington
Co-Chair: Parisini, Thomas	Imperial Coll. & Univ. of Trieste

16:30-16:50	MoC16.1	
<i>Online Learning Algorithm for Stackelberg Games in Problems with Hierarchy (I)</i> , pp. 1883-1889.		
Vamvoudakis, Kyriakos	Univ. of California, Santa Barbara	
Lewis, Frank L.	Univ. of Texas, Arlington	
Johnson, Marcus	Univ. of Florida	
Dixon, Warren E.	Univ. of Florida	
16:50-17:10	MoC16.2	
<i>On Subspace Decompositions of Finite Horizon Dynamic Programming Problems</i> , pp. 1890-1895.		
Tsakiris, Manolis	Johns Hopkins Univ.	
Tarraf, Danielle C.	Johns Hopkins Univ.	
17:10-17:30	MoC16.3	
<i>Robust Adaptive Dynamic Programming for Nonlinear Control Design (I)</i> , pp. 1896-1901.		
Jiang, Yu	Pol. Inst. of New York Univ.	
Jiang, Zhong-Ping	Pol. Inst. of New York Univ.	
17:30-17:50	MoC16.4	
<i>Approximation Structures with Moderate Complexity in Functional Optimization and Dynamic Programming (I)</i> , pp. 1902-1908.		
Gaggero, Mauro	National Res. Council of Italy	
Gnecco, Giorgio	Univ. di Genova	
Parisini, Thomas	Imperial Coll. & Univ. of Trieste	
Sanguineti, Marcello	Univ. di Genova	
Zoppoli, Riccardo	Univ. di Genova	
17:50-18:10	MoC16.5	
<i>Dynamic Programming with Total Variational Distance Uncertainty</i> , pp. 1909-1914.		
Charalambous, Charalambos D.	Univ. of Cyprus	
Tzortzis, Ioannis	Univ. of Cyprus	
Charalambous, Themistoklis	KTH Royal Inst. of Tech.	
18:10-18:30	MoC16.6	
<i>Joint Chance-Constrained Dynamic Programming</i> , pp. 1915-1922.		
Ono, Masahiro	Keio Univ.	
Kuwata, Yoshiaki	Jet Propulsion Lab.	
Balaran, J	Jet Propulsion Lab.	

MoC17	Haleakala Ballroom 5
Switched Systems III (Regular Session)	
Chair: Baglietto, Marco	Univ. of Genova
Co-Chair: Almer, Stefan	ETH Zuerich
16:30-16:50	MoC17.1
<i>Switching Rule Design for Affine Switched Systems with H-Infinity Performance</i> , pp. 1923-1928.	
Trofino, Alexandre	Univ. Federal de Santa Catarina
Cataldo Scharlau, Cesar	Univ. Federal de Santa Catarina
Dezuo, Tiago J.M.	Univ. Federal de Santa Catarina
de Oliveira, Mauricio C.	Univ. of California, San Diego

Technical Program for Tuesday December 11, 2012

TuSP1	Haleakala Ballroom 2-3	TuA01.5
Estimation and Identification of Population Systems (Semiplenary Session)		
Chair: Valcher, Maria Elena	Univ. di Padova	Yazicioglu, Ahmet Yasin Georgia Inst. of Tech.
Co-Chair: Parisini, Thomas	Imperial Coll. & Univ. of Trieste	Abbas, Waseem Georgia Inst. of Tech.
08:30-09:30	TuSP1.1	Egerstedt, Magnus Georgia Inst. of Tech.
<i>Estimation and Identification of Population Systems*</i> .		
Lygeros, John	ETH Zurich	
TuSP2	Haleakala Ballroom 4-5	TuA01.6
Control of Multi-Robot Systems: From Formations to Human-Swarm Interactions (Semiplenary Session)		
Chair: Farrell, Jay A.	Univ. of California, Riverside	Chatzipanagiotis, Nikolaos Duke Univ.
Co-Chair: Teel, Andrew R.	Univ. of California, Santa Barbara	Liu, Yupeng Rutgers Univ.
08:30-09:30	TuSP2.1	Petropulu, Athina Rutgers Univ.
<i>Control of Multi-Robot Systems: From Formations to Human-Swarm Interactions*</i> .		Zavlanos, Michael M. Duke Univ.
Egerstedt, Magnus	Georgia Inst. of Tech.	
TuA01	Hibiscus 1	TuA01.7
Networked Control Systems IV (Regular Session)		
Chair: Altafini, Claudio	SISSA International School For Advanced Studies	Silva, Eduardo I. Univ. Tecnica Federico Santa Maria
Co-Chair: D'Innocenzo, Alessandro	Univ. dell'Aquila	Pulgar, Sebastian A. Univ. Técnica Federico Santa María
10:00-10:20	TuA01.1	
<i>On the Efficiency-Vs-Security Tradeoff in the Smart Grid</i> , pp. 1954-1959.		
Abdallah, Yara	Ohio State Univ.	Choi, Ka Hyung Yonsei Univ.
Zheng, Zizhan	Ohio State Univ.	Kim, Yong Hwi Yonsei Univ.
Shroff, Ness B.	Ohio State Univ.	Yoon, Tae-Sung Changwon National Univ.
El Gamal, Hesham	Ohio State Univ.	Park, Jin Bae Yonsei Univ.
10:20-10:40	TuA01.2	
<i>Optimal Co-Design of Control, Scheduling and Routing in Multi-Hop Control Networks</i> , pp. 1960-1965.		
Smarra, Francesco	Univ. dell'Aquila	HE, Lidong Shanghai Jiao Tong Univ.
D'Innocenzo, Alessandro	Univ. dell'Aquila	Han, Dongfang Hong Kong Univ. of Science and Tech.
Di Benedetto, M. Domenica	Univ. dell'Aquila	Wang, Xiaofan Shanghai Jiao Tong Univ.
10:40-11:00	TuA01.3	Shi, Ling Hong Kong Univ. of Science and Tech.
<i>Achieving Consensus on Networks with Antagonistic Interactions</i> , pp. 1966-1971.		
Altafini, Claudio	SISSA International School For Advanced Studies	
11:00-11:20	TuA01.4	
<i>Social Learning in Networks with Time-Varying Topologies</i> , pp. 1972-1977.		
Liu, Qipeng	Shanghai Jiao Tong Univ.	Fasano, Antonio Univ. Campus Bio-Medico di Roma
Wang, Xiaofan	Shanghai Jiao Tong Univ.	Germani, Alfredo Univ. dell'Aquila
		Monteriù, Andrea Univ. Pol. delle Marche
11:00-11:20	TuA02.4	
<i>Relationship between Time-Invariant and Time-Variant Filtering Algorithms for a Class of Problems of Navigation Data Processing</i> , pp. 2016-2021.		
Stepanov, Oleg A.	CSRI Elektropribor	
Loparev, Alexei	CSRI Elektropribor	
Chelpanov, Igor B.	CSRI Elektropribor	

11:20-11:40	TuA02.5
<i>Parallelization of the Kalman Filter for Banded Systems on Multicore Computational Platforms</i> , pp. 2022-2027.	
Rosén, Olov Medvedev, Alexander V.	Uppsala Univ. Uppsala Univ.
11:40-12:00	TuA02.6
<i>A Kalman Filter Approach for the Synchronization of Motion Capture Systems</i> , pp. 2028-2033.	
Masiero, Andrea Cenedese, Angelo	Univ. di Padova Univ. of Padova
12:00-12:20	TuA02.7
<i>Suboptimal Multi-Mode State Estimation and Mode Detection</i> , pp. 2034-2039.	
Memon, Abdul Basit Verriest, Erik I.	Georgia Inst. of Tech. Georgia Inst. of Tech.
TuA03	Hibiscus 3
Agents and Autonomous Systems IV (Regular Session)	
Chair: Fanti, Maria Pia Co-Chair: Azuma, Shun-ichi	Pol. of Bari Kyoto Univ.
10:00-10:20	TuA03.1
<i>A Quantized Consensus Algorithm for Distributed Task Assignment</i> , pp. 2040-2045.	
Fanti, Maria Pia Mangini, Agostino Marcello Ukovich, Walter	Pol. of Bari Pol. di Bari Univ. of Trieste
10:20-10:40	TuA03.2
<i>Persistent Graphs and Consensus Convergence</i> , pp. 2046-2051.	
Shi, Guodong Johansson, Karl H.	Royal Inst. of Tech. Royal Inst. of Tech.
10:40-11:00	TuA03.3
<i>Intrinsic Consensus on SO(3) with Almost-Global Convergence</i> , pp. 2052-2058.	
Tron, Roberto Afsari, Bijan Vidal, Rene	Johns Hopkins Univ. Johns Hopkins Univ. Johns Hopkins Univ.
11:00-11:20	TuA03.4
<i>Broadcast Control of Group of Markov Chains</i> , pp. 2059-2064.	
Azuma, Shun-ichi Baba, Ichiro Sugie, Toshiharu	Kyoto Univ. Kyoto Univ. Kyoto Univ.
11:20-11:40	TuA03.5
<i>Mixed-Initiative Nested Classification for N Team Members</i> , pp. 2065-2070.	
Hyun, Baro Faiad, Mariam Kabamba, Pierre T. Girard, Anouck	Univ. of Michigan Univ. of Michigan Univ. of Michigan Univ. of Michigan
11:40-12:00	TuA03.6
<i>Decentralized Centroid Estimation for Multi-Agent Systems in Absence of a Common Reference Frame: A Convergence Analysis</i> , pp. 2071-2076.	
Franceschelli, Mauro Gasparri, Andrea	Univ. of Cagliari Univ. of "Roma Tre"
12:00-12:20	TuA03.7
<i>Distributed Integral Action: Stability Analysis and Frequency Control of Power Systems</i> , pp. 2077-2083.	
Andreasson, Martin Sandberg, Henrik Dimarogonas, Dimos V. Johansson, Karl H.	KTH Royal Inst. of Tech. KTH Royal Inst. of Tech. KTH Royal Inst. of Tech. KTH Royal Inst. of Tech.
TuA04	Plumeria 1
Stochastic Optimal Control IV (Regular Session)	
Chair: Prandini, Maria Co-Chair: Langbort, Cedric	Pol. di Milano Univ. of Illinois, Urbana-Champaign
10:00-10:20	TuA04.1
<i>Dynamic Pricing of Preemptive Service for Elastic Demand</i> , pp. 2084-2089.	
Turhan, Aylin Alanyali, Murat Starobinski, David	Boston Univ. Boston Univ. Boston Univ.
10:20-10:40	TuA04.2
<i>epsilon-Nash Mean Field Game Theory for Nonlinear Stochastic Dynamical Systems with Mixed Agents (I)</i> , pp. 2090-2095.	
Nourian, Mojtaba Caines, Peter E.	McGill Univ. McGill Univ.
10:40-11:00	TuA04.3
<i>A Self-Recovery Approach to the Probabilistic Invariance Problem for Stochastic Hybrid Systems</i> , pp. 2096-2101.	
Prandini, Maria Piroddi, Luigi	Pol. di Milano Pol. di Milano
11:00-11:20	TuA04.4
<i>A Risk-Constrained Multi-Stage Decision Making Approach to the Architectural Analysis of Planetary Missions</i> , pp. 2102-2109.	
Kuwata, Yoshiaki Pavone, Marco Balaram, J.	Jet Propulsion Lab. Stanford Univ. Jet Propulsion Lab.
11:20-11:40	TuA04.5
<i>How Useful Are Mean-Variance Considerations in Stock Trading Via Feedback Control?</i> , pp. 2110-2115.	
Malekpour, Shirzad Barmish, B. Ross	Univ. of Wisconsin-Madison Univ. of Wisconsin
11:40-12:00	TuA04.6
<i>A Team Theoretic Approach to Decentralized Control of Systems with Stochastic Parameters</i> , pp. 2116-2121.	
Mishra, Anshuman Langbort, Cedric Dullerud, Geir E.	Univ. of Illinois, Urbana-Champaign Univ. of Illinois, Urbana-Champaign Univ. of Illinois, Urbana-Champaign

12:00-12:20	TuA04.7
<i>Adapted and Casual Maximum Principle and Analytical Solution to Optimal Control for Stochastic Multiplicate-Noise Systems with Multiple Input-Delays</i> , pp. 2122-2127.	
Zhang, Huanshui	Shan Dong Univ.
Wang, Hongxia	Harbin Inst. of Tech. Shenzhen graduate school
Li, Lin	Shan Dong Univ.
TuA05	Plumeria 2
Identification for Control (Regular Session)	
Chair: Novara, Carlo	Pol. di Torino
Co-Chair: Roy, Sandip	Washington State Univ.
10:00-10:20	TuA05.1
<i>Cramer-Rao Bounds on Eigenvalue Estimates from Impulse Response Data: The Multi-Observation Case</i> , pp. 2128-2133.	
Abad Torres, Jackeline	Washington State Univ.
Roy, Sandip	Washington State Univ.
10:20-10:40	TuA05.2
<i>Combined Procedure with Randomized Controls for the Parameters' Confidence Region of Linear Plant under External Arbitrary Noise</i> , pp. 2134-2139.	
Granichina, Olga	Saint-Petersburg State Univ.
Amelina, Natalia	Saint-Petersburg State Univ.
Amelin, Konstantin	Saint-Petersburg State Univ.
Granichin, Oleg N.	Saint-Petersburg State Univ.
10:40-11:00	TuA05.3
<i>DFK Control Design for Nonlinear Systems</i> , pp. 2140-2145.	
Novara, Carlo	Pol. di Torino
Fagiano, Lorenzo	Pol. di Torino/Univ. California at Santa Barbara
Milanese, Mario	Modelway srl
11:00-11:20	TuA05.4
<i>A New Method for Stabilizing Unstable Periodic Orbits of Continuous-Time Systems. Application to Control of Chaos</i> , pp. 2146-2151.	
Chagas, Thiago Pereira	Inst. Tecnológico de Aeronáutica
Bliman, Pierre-Alexandre J	INRIA-Rocquencourt
Kienitz, Karl Heinz	Inst. Tecnológico de Aeronáutica
11:20-11:40	TuA05.5
<i>A Unified Experiment Design Framework for Detection and Identification in Closed-Loop Performance Diagnosis</i> , pp. 2152-2157.	
Mesbah, Ali	Massachusetts Inst. of Tech.
Bombois, Xavier	Delft Univ. of Tech.
Forgione, Marco	Delft Univ. of Tech.
Ludlage, Jobert	Delft Univ. of Tech.
Moden, Per Erik	ABB Industrial Systems
Hjalmarsson, Håkan	KTH Royal Inst. of Tech.
Van den Hof, Paul M.J.	Eindhoven Univ. of Tech.
11:40-12:00	TuA05.6
<i>On Dual Control for Buildings Using Persistent Excitation Condition</i> , pp. 2158-2163.	
Zacekova, Eva	Czech Tech. Univ. in Prague
Privara, Samuel	Czech Tech. Univ. in Prague
Komarek, Josef	Technofiber
12:00-12:20	TuA05.7
<i>Force-Based Stiffness Estimation for Robotic Tasks</i> , pp. 2164-2170.	
Coutinho, Fernanda	Univ. of Coimbra
Cortesao, Rui	Univ. of Coimbra
TuA06	Plumeria 3
Uncertain Systems I (Regular Session)	
Chair: Vaidya, Umesh	Iowa State Univ.
Co-Chair: Kishida, Masako	Univ. of Tokyo
10:00-10:20	TuA06.1
<i>Infinite-Horizon Performance Bounds for Constrained Stochastic Systems</i> , pp. 2171-2176.	
Van Parys, Bart Paul Gerard	ETH Zürich
Goulart, Paul J.	ETH Zürich
Morari, Manfred	ETH Zürich
10:20-10:40	TuA06.2
<i>A Hybrid Method for Chance Constrained Control in Uncertain Environments</i> , pp. 2177-2182.	
Vitus, Michael P.	UC Berkeley
Tomlin, Claire J.	UC Berkeley
10:40-11:00	TuA06.3
<i>Uncertainty Quantification in Hybrid Dynamical Systems Using Wavelet Expansions</i> , pp. 2183-2188.	
Sahai, Tuhin	United Tech. Res. Center
Pasini, Jose Miguel	United Tech. Res. Center
11:00-11:20	TuA06.4
<i>Characterization of Strong Structural Controllability of Uncertain Linear Time-Varying Discrete-Time Systems</i> , pp. 2189-2194.	
Hartung, Christoph	Univ. of the German Armed Forces Munich
Reissig, Gunther	Univ. of the Federal Armed Forces Munich
Svaricek, Ferdinand	Univ. of the German Armed Forces Munich
11:20-11:40	TuA06.5
<i>A Generalized Hertz-Type Approach to the Eigenvalue Bounds of Complex Interval Matrices</i> , pp. 2195-2200.	
Matcovschi, Mihaela-Hanako	Tech. Univ. "Gheorghe Asachi" of Iasi
Pastravanu, Octavian C.	Romania Tech. Univ.
11:40-12:00	TuA06.6
<i>Identification of Critical Interactions in Uncertain Network Systems with Complex Dynamics</i> , pp. 2201-2206.	
Dasgupta, Sambarta	Iowa State Univ.
Vaidya, Umesh	Iowa State Univ.

12:00-12:20	TuA06.7	Maile 2
<i>Adaptive Controller Design and Disturbance Attenuation for a Class of MIMO Linear Systems under Noisy Output Measurement</i> , pp. 2207-2212.		
Zeng, Sheng	CareFusion Corp.	
TuA07	Maile 1	
Distributed Control II (Regular Session)		
Chair: De Santis, Elena	Univ. of L'Aquila	
Co-Chair: Ren, Wei	Univ. of California, Riverside	
10:00-10:20	TuA07.1	TuA08.1
<i>On the Cost of Deciding Consensus</i> , pp. 2213-2218.		
Blondel, Vincent	MIT	Univ. Paris Sud 11
Olshevsky, Alexander	Univ. of Illinois at Urbana-Champaign	Imperial Coll.
Kragic, Danica	KTH Royal Inst. of Tech.	Kyushu Inst. of Tech.
10:20-10:40	TuA07.2	TuA08.2
<i>Multi-Agent Average Consensus Control with Prescribed Performance Guarantees</i> , pp. 2219-2225.		
Karayannidis, Yiannis	KTH Royal Inst. of Tech.	Univ. of Manchester
Dimarogonas, Dimos V.	KTH Royal Inst. of Tech.	Univ. of Manchester
Caravani, Paolo	Univ. of L'Aquila	Univ. of Manchester
De Santis, Elena	Univ. of L'Aquila	Univ. of Manchester
11:00-11:20	TuA07.4	TuA08.3
<i>Optimal Distributed Controller Design with Communication Delays: Application to Vehicle Formations</i> , pp. 2232-2237.		
Feyzmahdavian, Hamid Reza	KTH Royal Inst. of Tech.	Univ. of Manchester
Alam, Assad Al	KTH Royal Inst. of Tech.	Univ. of Manchester
Gattami, Ather	KTH Royal Inst. of Tech.	Univ. of Manchester
11:20-11:40	TuA07.5	TuA08.4
<i>Distributed Constrained Consensus in the Presence of Unbalanced Switching Graphs and Communication Delays</i> , pp. 2238-2243.		
Lin, Peng	Univ. of Electronic Science and Tech. of China	KTH Royal Inst. of Tech.
Ren, Wei	Univ. of California, Riverside	KTH Royal Inst. of Tech.
11:40-12:00	TuA07.6	Shanghai Jiao Tong Univ.
<i>Optimal Distributed Consensus on Unknown Undirected Graphs</i> , pp. 2244-2249.		
Ghosh, Supratim	Pennsylvania State Univ.	KTH Royal Inst. of Tech.
Lee, Ji-Woong	Pennsylvania State Univ.	Georgia Inst. of Tech.
12:00-12:20	TuA07.7	Georgia Inst. of Tech.
<i>It May Be "easier to Approximate" Decentralized Infinite-Horizon LQG Problems</i> , pp. 2250-2255.		
Park, Se Yong	Univ. of California, Berkeley	Univ. of Melbourne
Sahai, Anant	Univ. of California, Berkeley	Univ. of Newcastle
		Univ. of Melbourne
		Univ. of Wuppertal
		Univ. of Wuppertal

TuA09	Maile 3
Biomolecular and Biological Systems (Regular Session)	
Chair: Dunbar, William B.	Univ. of California, Santa Cruz
Co-Chair: Paschalidis, Ioannis	Boston Univ.
10:00-10:20	TuA09.1
<i>Infinite Horizon Linear Quadratic Gene Regulation in Fluctuating Environments</i> , pp. 2298-2303.	
R. Pour Safaei, Farshad	Univ. of California, Santa Barbara
Hespanha, Joao P.	Univ. of California, Santa Barbara
Proulx, Stephen Robert	UCSB
10:20-10:40	TuA09.2
<i>A Kalman Filter for Estimating Nanopore Channel Conductance in Voltage-Varying Experiments</i> , pp. 2304-2309.	
O'Donnell, Christopher Ryan	Univ. of California, Santa Cruz
Wiberg, Donald M.	Univ. of California, Santa Cruz
Dunbar, William B.	Univ. of California, Santa Cruz
10:40-11:00	TuA09.3
<i>A Message Passing Approach to Side Chain Positioning with Applications in Protein Docking Refinement</i> , pp. 2310-2315.	
Moghadasi, Mohammad	Boston Univ.
Kozakov, Dima	Boston Univ.
Mamonov, Artem	Boston Univ.
Vakili, Pirooz	Boston Univ.
Vajda, Sandor	Boston Univ.
Paschalidis, Ioannis	Boston Univ.
11:00-11:20	TuA09.4
<i>Validity of the Phase Approximation for Coupled Nonlinear Oscillators: A Case Study</i> , pp. 2316-2321.	
Franci, Alessio	Univ. Paris XI - Supélec
Pasillas-Lepine, William	CNRS, SUPELEC
Chaillet, Antoine	Univ. Paris Sud 11
11:20-11:40	TuA09.5
<i>Parameter and State Estimation for a Class of Neural Mass Models</i> , pp. 2322-2327.	
Postoyan, Romain	CNRS-CRAN
Chong, Michelle	Univ. of Melbourne
Nesic, Dragan	Univ. of Melbourne
Kuhlmann, Levin	Univ. of Melbourne
11:40-12:00	TuA09.6
<i>Validation of a Nonlinear Reactive Control Law for Three-Dimensional Particle Tracking in Confocal Microscopy</i> , pp. 2328-2333.	
Ashley, Trevor	Boston Univ.
Chan-Tse, Catherine	Boston Univ.
Andersson, Sean	Boston Univ.
12:00-12:20	TuA09.7
<i>Reconstruction of Arbitrary Biochemical Reaction Networks: A Compressive Sensing Approach</i> , pp. 2334-2339.	
Pan, Wei	Imperial Coll. London
Yuan, Ye	Univ. of Cambridge
Goncalves, Jorge M.	Univ. of Cambridge
Stan, Guy-Bart Vincent	Imperial Coll. London

TuA10	Pikake 1
Delay Systems (Regular Session)	
Chair: Franzese, Giuseppe	Univ. degli Studi della Calabria
Co-Chair: Olgac, Nejat	Univ. of Connecticut
10:00-10:20	TuA10.1
<i>Exact Stability Analysis of Second-Order Leader-Follower Consensus Protocols with Multiple Time Delays</i> , pp. 2340-2345.	
Cepeda-Gomez, Rudy	Univ. Industrial de Santander
Olgac, Nejat	Univ. of Connecticut
10:20-10:40	TuA10.2
<i>Adaptive State Estimation for a Class of Uncertain Nonlinear Systems with Output Time-Delays</i> , pp. 2346-2351.	
Dimassi, Habib	CNRS
Loria, Antonio	CNRS
Belghith, Safya	ENIT
10:40-11:00	TuA10.3
<i>Controllability Analysis of Uncertain Polytopic Systems with Time-Varying State Delay</i> , pp. 2352-2357.	
Famularo, Domenico	Univ. degli Studi della Calabria
Franze, Giuseppe	Univ. degli Studi della Calabria
Tedesco, Francesco	Univ. degli Studi della Calabria
11:00-11:20	TuA10.4
<i>State-Dependent Sampling for Perturbed Time-Delay Systems</i> , pp. 2358-2363.	
Fiter, Christophe	CNRS - Région Nord-Pas de Calais, France
Helal, Laurentiu	Ec. Centrale de Lille
Perruquetti, Wilfrid	Ec. Centrale de Lille
Richard, Jean-Pierre	Ec. Centrale de Lille
11:20-11:40	TuA10.5
<i>An Exponential Observer with Delay-Dependent Gain for a Class of Nonlinear Systems with Time-Varying Measurement Delay</i> , pp. 2364-2369.	
Cacace, Filippo	Univ. Campus Biomedico di Roma
Germani, Alfredo	Univ. dell'Aquila
Manes, Costanzo	Univ. dell'Aquila
11:40-12:00	TuA10.6
<i>Observer Based Output Feedback Control of Linear Systems with Multiple Input and Output Delays</i> , pp. 2370-2375.	
Zhou, Bin	Harbin Inst. of Tech.
Li, Zhao-Yan	Harbin Inst. of Tech.
Lin, Zongli	Univ. of Virginia
12:00-12:20	TuA10.7
<i>Unified Approach for Minimal Output Dead Time Compensation in MIMO Non-Square Processes</i> , pp. 2376-2381.	
Flesch, Rodolfo C. C.	Univ. Federal de Santa Catarina
Santos, Tito Luís	Univ. Federal da Bahia
Normey-Rico, Julio Elias	Univ. Federal de Santa Catarina

TuA11	Pikake 2
Energy Systems I (Regular Session)	
Chair: Garulli, Andrea	Univ. di Siena
Co-Chair: Bentsman, Joseph	Univ. of Illinois at Urbana-Champaign
10:00-10:20	TuA11.1
<i>Control of Energy Systems As Distributed Parameter Systems with Software Support by Virtual Software Environments (I), pp. 2382-2387.</i>	
Hulko, Gabriel	Slovak Univ. of Tech. in Bratislava
Rohal-Ikkiv, Boris	Slovak Univ. of Tech. in Bratislava
Noga, Pavol	Slovak Univ. of Tech. in Bratislava
Lipar, Slavomir	Slovak Univ. of Tech. in Bratislava
10:20-10:40	TuA11.2
<i>Efficiency-Risk Tradeoffs in Dynamic Oligopoly Markets – with Application to Electricity Markets, pp. 2388-2394.</i>	
Huang, Qingqing	Massachusetts Inst. of Tech.
Roozbehani, Mardavij	Massachusetts Inst. of Tech.
Dahleh, Munther A.	Massachusetts Inst. of Tech.
10:40-11:00	TuA11.3
<i>Electric Load Forecasting in the Presence of Active Demand, pp. 2395-2400.</i>	
Paoletti, Simone	Univ. di Siena
Garulli, Andrea	Univ. di Siena
Vicino, Antonio	Univ. di Siena
11:00-11:20	TuA11.4
<i>On Energy Delivery to Delay-Averse Flexible Loads: Optimal Algorithm, Consumer Value and Network Level Impacts, pp. 2401-2408.</i>	
Kefayati, Mahdi	Univ. of Texas, Austin
Baldick, Ross	Univ. of Texas, Austin
11:20-11:40	TuA11.5
<i>Wavelet Multiresolution Model Based Generalized Predictive Control for Hybrid Combustion-Gasification Chemical Looping Process (I), pp. 2409-2414.</i>	
Zhang, Shu	Univ. of Illinois at Urbana-Champaign
Bentsman, Joseph	Univ. of Illinois at Urbana-Champaign
Lou, Xinsheng	ALSTOM Power, Inc.
Neuschaefer, Carl	Alstom Power Inc
11:40-12:00	TuA11.6
<i>Optimal Active Control of a Wave Energy Converter (I), pp. 2415-2420.</i>	
Abraham, Edo	Imperial Coll. London
Kerrigan, Eric C.	Imperial Coll. London
12:00-12:20	TuA11.7
<i>Power Optimization for Photovoltaic Micro-Converters Using Multivariable Newton-Based Extremum-Seeking, pp. 2421-2426.</i>	
Ghaffari, Azad	San Diego State Univ./ Univ. of California, San Diego
Krstic, Miroslav	Univ. of California, San Diego
Seshagiri, Sridhar	San Diego State Univ.

TuA12	Pikake 3
Cooperative Control of Autonomous Vehicles (Regular Session)	
Chair: Djapic, Vladimir	NURC
Co-Chair: Peymani	Norwegian Univ. of Science and Tech.
10:00-10:20	TuA12.1
<i>A Rapid Incremental Motion Planner for Flexible Formation Control of Fixed-Wing UAVs, pp. 2427-2432.</i>	
Low, Chang Boon	DSO National Lab.
10:20-10:40	TuA12.2
<i>Distributed Estimation of Internal Wave Parameters Via Inter-Drogue Distances, pp. 2433-2438.</i>	
Ouimet, Michael	Univ. of California, San Diego
Cortes, Jorge	Univ. of California, San Diego
10:40-11:00	TuA12.3
<i>Nonholonomic Cooperative Manipulation of Polygonal Objects in the Plane, pp. 2439-2446.</i>	
Satici, Aykut C	Univ. of Texas, Dallas
Spong, Mark W.	Univ. of Texas, Dallas
11:00-11:20	TuA12.4
<i>Leader-Follower Formation of Marine Craft Using Constraint Forces and Lagrange Multipliers, pp. 2447-2452.</i>	
Peymani Foroushani, Ehsan	Norwegian Univ. of Science and Tech.
Fossen, Thor I.	Norwegian Univ. of Science and Tech.
11:20-11:40	TuA12.5
<i>Formation Control of Multiple Nonholonomic Unicycles Using Adaptive Perturbation Method, pp. 2453-2458.</i>	
Wang, Qin	Southeast Univ.
Tian, Yu-Ping	Southeast Univ.
11:40-12:00	TuA12.6
<i>String Stability of Interconnected Vehicles under Communication Constraints, pp. 2459-2464.</i>	
Oncu, Sinan	Eindhoven Univ. of Tech.
Van De Wouw, Nathan	Eindhoven Univ. of Tech.
Heemels, W.P.M.H.	Eindhoven Univ. of Tech.
Nijmeijer, Hendrik	Eindhoven Univ. of Tech.
TuA13	Ilima 1
Control Applications I (Regular Session)	
Chair: Corradini, Maria Letizia	Univ. di Camerino
Co-Chair: Smith, Malcolm C.	Univ. of Cambridge
10:00-10:20	TuA13.1
<i>LQ Optimal and Risk-Sensitive Control for Vehicle Suspensions, pp. 2465-2470.</i>	
Breza, Panos	Univ. of Cambridge
Smith, Malcolm C.	Univ. of Cambridge
10:20-10:40	TuA13.2
<i>Resonant Controller for Fast Atomic Force Microscopy, pp. 2471-2476.</i>	
Das, Sajal	Univ. of New South Wales at ADFA
Pota, Hemanshu R.	Univ. of New South Wales
Petersen, Ian R.	Univ. of New South Wales at ADFA

10:40-11:00	TuA13.3
<i>Model Predictive Control of Atomic Force Microscope for Fast Image Scanning</i> , pp. 2477-2482.	
Rana, Md. Sohel Pota, Hemanshu R. Petersen, Ian R.	UNSW, Canberra Univ. of New South Wales Univ. of New South Wales at ADFA
11:00-11:20	TuA13.4
<i>An Aerodynamic Torque Observer for the Robust Control of Variable-Speed Wind Turbines (I)</i> , pp. 2483-2488.	
Corradini, Maria Letizia Ippoliti, Gianluca Orlando, Giuseppe	Univ. di Camerino Univ. Pol. delle Marche Univ. Pol. delle Marche
11:20-11:40	TuA13.5
<i>Dynamic Coupling between a Human User and Haptic Virtual Environment</i> , pp. 2489-2494.	
Yu, Bo Freudenberg, James S. Gillespie, Brent Cook, Jeffrey A.	Univ. of Michigan Univ. of Michigan Univ. of Michigan Univ. of Michigan
11:40-12:00	TuA13.6
<i>Scheduling for Charging Plug-In Hybrid Electric Vehicles</i> , pp. 2495-2501.	
Xu, Yunjian Pan, Feng	Massachusetts Inst. of Tech. Los Alamos National Lab.
12:00-12:20	TuA13.7
<i>Dynamics and Control of a Chain Pendulum on a Cart</i> , pp. 2502-2508.	
Lee, Taeyoung Leok, Melvin McClamroch, N. Harris	George Washington Univ. Univ. of California, San Diego Univ. of Michigan
TuA14	Ilima 2
Optimization I (Regular Session)	
Chair: Jovanovic, Mihailo Co-Chair: Ebenbauer, Christian	Univ. of Minnesota Univ. of Stuttgart
10:00-10:20	TuA14.1
<i>Continuous Piecewise Linear Programming Via Concave Optimization and Genetic Algorithm</i> , pp. 2509-2514.	
Xi, Xiangming Xu, Jun Mu, Xiaomu Wang, Shuning	Tsinghua Univ. Tsinghua Univ. Tsinghua Univ. Tsinghua Univ.
10:20-10:40	TuA14.2
<i>A Smooth Vector Field for Quadratic Programming</i> , pp. 2515-2520.	
Dürr, Hans-Bernd Saka, Erkin Ebenbauer, Christian	Univ. of Stuttgart Univ. of Stuttgart Univ. of Stuttgart
10:40-11:00	TuA14.3
<i>Improved Genetic Algorithm for Magnetic Material Two-Stage Multi-Product Production Scheduling: A Case Study</i> , pp. 2521-2526.	
Liu, Yefeng Chai, Tianyou Qin, S. Joe Pan, Quanke Yang, Shengxiang	Northeastern Univ. Northeastern Univ. Univ. of Southern California Northeastern Univ. Univ. of Leicester
11:00-11:20	TuA14.4
<i>Semidefinite Relaxations of Chance Constrained Algebraic Problems</i> , pp. 2527-2532.	
Mohammadzadeh Jasour, Ashkan Lagoa, Constantino M.	Pennsylvania State Univ. Pennsylvania State Univ.
11:20-11:40	TuA14.5
<i>Risk-Averse Shortest Path Problems</i> , pp. 2533-2538.	
Gavriel, Christos Hanasusanto, Grani Adiwena Kuhn, Daniel	Imperial Coll. London Imperial Coll. London Imperial Coll. London
11:40-12:00	TuA14.6
<i>On the Optimal Dissemination of Information in Social Networks</i> , pp. 2539-2544.	
Fardad, Makan Zhang, Xi Lin, Fu Jovanovic, Mihailo	Syracuse Univ. Syracuse Univ. Univ. of Minnesota Univ. of Minnesota
12:00-12:20	TuA14.7
<i>On the Mixing Time of Markov Chain Monte Carlo for Integer Least-Square Problems</i> , pp. 2545-2550.	
Xu, Weiyu Dimakis, Alexandros G. Hassibi, Babak	Univ. of Iowa Univ. of Southern California Caltech
TuA15	Ilima 3
Linear Systems I (Regular Session)	
Chair: Valcher, Maria Elena Co-Chair: Bartosiewicz, Zbigniew	Univ. di Padova Bialystok Univ. of Tech.
10:00-10:20	TuA15.1
<i>On Event-Triggered Control of Linear Systems under Periodic Denial-Of-Service Jamming Attacks</i> , pp. 2551-2556.	
Shisheh Foroush, Hamed Martinez, Sonia	Univ. of California, San Diego Univ. of California, San Diego
10:20-10:40	TuA15.2
<i>Multi-Blade Coordinate and Direct Techniques for Asymptotic Disturbance Rejection in Wind Turbines (I)</i> , pp. 2557-2562.	
Laks, Jason Pao, Lucy Y. Shajee, Shervin	Univ. of Colorado, Boulder Univ. of Colorado, Boulder Univ. of Colorado, Boulder

10:40-11:00	TuA15.3	
<i>Observer Design for Discrete-Time Linear Systems with Unknown Disturbances</i> , pp. 2563-2568.		
Allahverdi Charandabi, Behnam Marquez, Horacio J.	Univ. of Alberta	
11:00-11:20	TuA15.4	
<i>A Tighter Reachable Set Bound for Linear Systems Subject to Both Discrete and Distributed Delays</i> , pp. 2569-2573.		
Zuo, Zhiqiang Fu, Youhua Wang, Yijing Li, Chanying Chen, Michael Z. Q.	Tianjin Univ. Tianjin Univ. Tianjin Univ. Chines Acad. of Sciences Univ. of Hong Kong	
11:20-11:40	TuA15.5	
<i>Observability and Reconstructibility of Boolean Control Networks</i> , pp. 2574-2580.		
Fornasini, Ettore Valcher, Maria Elena	Univ. di Padova Univ. di Padova	
11:40-12:00	TuA15.6	
<i>Observability of Linear Positive Systems on Time Scales</i> , pp. 2581-2586.		
Bartosiewicz, Zbigniew	Bialystok Univ. of Tech.	
12:00-12:20	TuA15.7	
<i>Poincare Recurrence and Output Reversibility in Linear Dynamical Systems</i> , pp. 2587-2592.		
Nersesov, Sergey G. Haddad, Wassim M. Bernstein, Dennis S.	Villanova Univ. Georgia Inst. of Tech. Univ. of Michigan	
TuA16	Haleakala Ballroom 3	
Nonlinear Model Predictive Control (Regular Session)		
Chair: Falugi, Paola Co-Chair: Quevedo, Daniel E.	Imperial Coll. London Univ. of Newcastle	
10:00-10:20	TuA16.1	
<i>Hierarchical Nonlinear Model Predictive Control for Combined Cycle Start-Up Optimization (I)</i> , pp. 2593-2598.		
Tica, Adrian Gueguen, Herve Dumur, Didier Faille, Damien Davelaar, Frans	SUPELEC / IETR Supelec Ec. Superieure d'Electricite Electricité de France EDF	
10:20-10:40	TuA16.2	
<i>Input-To-State Stability for Model Predictive Control of Single Systems and Networks with Time-Delays</i> , pp. 2599-2604.		
Dashkovskiy, Sergey Naujok, Lars	Univ. of Applied Sciences Erfurt Univ. of Bremen	
10:40-11:00	TuA16.3	
<i>Analysis of Unconstrained Nonlinear MPC Schemes with Time Varying Control Horizon (I)</i> , pp. 2605-2610.		
Gruene, Lars Pannek, Juergen Seehafer, Martin Worthmann, Karl	Univ. of Bayreuth Univ. of the Federal Armed Forces Munich Munich Reinsurance Company Univ. of Bayreuth	
11:00-11:20	TuA16.4	
<i>Closed-Loop Chance-Constrained MPC with Probabilistic Resolvability</i> , pp. 2611-2618.		
Ono, Masahiro	Keio Univ.	
11:20-11:40	TuA16.5	
<i>Stochastic Nonlinear Model Predictive Control Based on Progressive Density Simplification</i> , pp. 2619-2624.		
Chlebek, Christof Hekler, Achim Hanebeck, Uwe D.	Karlsruhe Inst. of Tech. Karlsruhe Inst. of Tech. Karlsruhe Inst. of Tech.	
11:40-12:00	TuA16.6	
<i>Improved Stability Conditions for Unconstrained Nonlinear Model Predictive Control by Using Additional Weighting Terms</i> , pp. 2625-2630.		
Reble, Marcus Quevedo, Daniel E. Allgower, Frank	Univ. of Stuttgart Univ. of Newcastle Univ. of Stuttgart	
12:00-12:20	TuA16.7	
<i>Tracking Performance of Model Predictive Control</i> , pp. 2631-2636.		
Falugi, Paola Mayne, David Q.	Imperial Coll. London Imperial Coll. London	
TuA17	Haleakala Ballroom 5	
Switched Systems IV (Regular Session)		
Chair: Santini, Stefania Co-Chair: Trenn, Stephan	Univ. of Naples Federico II Univ. of Kaiserslautern	
10:00-10:20	TuA17.1	
<i>Minimal Control Synthesis Adaptive Control of Continuous Bimodal Piecewise Affine Systems (I)</i> , pp. 2637-2642.		
di Bernardo, Mario Montanaro, Umberto Santini, Stefania	Univ. of Naples Federico II Univ. of Naples Federico II Univ. of Naples Federico II	
10:20-10:40	TuA17.2	
<i>On Model Matching Problems of Input-Output Switching Systems</i> , pp. 2643-2647.		
Naghnaeian, Mohammad Voulgaris, Petros G.	Univ. of Illinois Urbana-Champaign Univ. of Illinois, Urbana-Champaign	
10:40-11:00	TuA17.3	
<i>Observability of Switched Differential-Algebraic Equations for General Switching Signals</i> , pp. 2648-2653.		
Tanwani, Aneel Trenn, Stephan	INRIA - Rhone Alpes Univ. of Kaiserslautern	

11:00-11:20	TuA17.4
<i>Receding-Horizon Control and Scheduling of Systems with Uncertain Computation and Communication Delays</i> , pp. 2654-2659.	
Al-Areqi, Sanad Görjes, Daniel Liu, Steven	Univ. of Kaiserslautern Univ. of Kaiserslautern Univ. of Kaiserslautern
11:20-11:40	TuA17.5
<i>Extended Small Gain Theorem with Application to Time-Delay Switched Linear Systems</i> , pp. 2660-2665.	
Deaecto, Grace S. Geromel, Jose C. Galbusera, Luca Bolzern, Paolo	UNICAMP UNICAMP Consiglio Nazionale delle Ricerche Pol. di Milano
11:40-12:00	TuA17.6
<i>Linear Switched DAEs: Lyapunov Exponents, a Converse Lyapunov Theorem, and Barabanov Norms</i> , pp. 2666-2671.	
Trenn, Stephan Wirth, Fabian R.	Univ. of Kaiserslautern Univ. Würzburg
TuB01	Hibiscus 1
Games in Networks (Invited Session)	
Chair: Jadbabaie, Ali Co-Chair: Ozdaglar, Asu Organizer: Jadbabaie, Ali Organizer: Ozdaglar, Asu	Univ. of Pennsylvania MIT Univ. of Pennsylvania MIT
14:00-14:20	TuB01.1
<i>On the Behavior of Threshold Models Over Finite Networks (I)</i> , pp. 2672-2677.	
Adam, Elie M. Dahleh, Munther A. Ozdaglar, Asu	Massachusetts Inst. of Tech. Massachusetts Inst. of Tech. Massachusetts Inst. of Tech.
14:20-14:40	TuB01.2
<i>Game Theoretic Analysis of Customer Subscription Decisions in Networks with Positive Externality (I)</i> , pp. 2678-2683.	
Oh, Jaelynn Zargham, Michael Su, Xuanming Jadbabaie, Ali	Univ. of Pennsylvania Univ. of Pennsylvania Univ. of Pennsylvania Univ. of Pennsylvania
14:40-15:00	TuB01.3
<i>Duopoly Pricing Game in Networks with Local Coordination Effects (I)</i> , pp. 2684-2689.	
Fazeli, Arastoo Jadbabaie, Ali	Univ. of Pennsylvania Univ. of Pennsylvania
15:00-15:20	TuB01.4
<i>Minimally Invasive Mechanism Design: Distributed Covering with Carefully Chosen Advice (I)</i> , pp. 2690-2695.	
Shin, Jinwoo Balcan, Maria Florina Piliouras, Georgios Krehbiel, Sara	Georgia Inst. of Tech. Georgia Inst. of Tech. Georgia Inst. of Tech. Georgia Inst. of Tech.
15:20-15:40	TuB01.5
<i>Social Networks Over Wireless Networks (I)</i> , pp. 2696-2703.	
Stai, Eleni Baras, John S. Papavassiliou, Symeon	Univ. of Maryland Univ. of Maryland Polytechnic. Univ.
15:40-16:00	TuB01.6
<i>Deceptive Routing Games</i> , pp. 2704-2711.	
Zhu, Quanyan Clark, Andrew Poovendran, Radha Basar, Tamer	Univ. of Illinois, Urbana-Champaign Univ. of Washington, Seattle Univ. of Washington, Seattle Univ. of Illinois, Urbana-Champaign
TuB02	Hibiscus 2
Sensor Networks III (Regular Session)	
Chair: Sinopoli, Bruno Co-Chair: Fu, Minyue	Carnegie Mellon Univ. Univ. of Newcastle
14:00-14:20	TuB02.1
<i>Clock Synchronization for Random Mobile Sensor Networks</i> , pp. 2712-2717.	
He, 84305 Cheng, Peng Shi, Ling Chen, Jiming	Zhejiang Univ. Zhengjiang Univ. Hong Kong Univ. of Science and Tech. Zhejiang Univ.
14:20-14:40	TuB02.2
<i>Exact Rate for Convergence in Probability of Averaging Processes Via Generalized Min-Cut</i> , pp. 2718-2725.	
Bajovic, Dragana Xavier, Joao Moura, Jose' M. F. Sinopoli, Bruno	Carnegie Mellon Univ. Inst. Superior Technico Carnegie Mellon Univ. Carnegie Mellon Univ.
14:40-15:00	TuB02.3
<i>New Results on Node Localizable Conditions for Sensor Networks</i> , pp. 2726-2731.	
Diao, Yingfei Fu, Minyue Zhang, Huanshui	Shandong Univ. Univ. of Newcastle Shandong Univ.
15:00-15:20	TuB02.4
<i>Information Weighted Consensus</i> , pp. 2732-2737.	
Kamal, Ahmed T. Farrell, Jay A. Roy-Chowdhury, Amit K.	Univ. of California, Riverside Univ. of California, Riverside Univ. of California, Riverside
15:20-15:40	TuB02.5
<i>Diffusion and Topology: Large Densely Connected Networks</i> , pp. 2738-2743.	
Almeida Santos, Augusto Moura, Jose' M. F.	Carnegie Mellon Univ. Carnegie Mellon Univ.

15:40-16:00	TuB02.6	Plumeria 1
<i>Transient and Limit Performance of Distributed Relative Localization</i> , pp. 2744-2748.		
Rossi, Wilbert Samuel	Pol. di Torino	Boston Univ.
Frasca, Paolo	Pol. di Torino	Boston Univ.
Fagnani, Fabio	Pol. di Torino	Boston Univ.
TuB03	Hibiscus 3	
Agents and Autonomous Systems V (Regular Session)		
Chair: Franceschetti, Massimo	Univ. of California, San Diego	
Co-Chair: Rodríguez-Seda, Erick J.	Univ. of Texas, Dallas	
14:00-14:20	TuB03.1	TuB04.1
<i>Design of Sparse Relative Sensing Networks</i> , pp. 2749-2754.		
Schuler, Simone	Univ. of Stuttgart	MIT
Zelazo, Daniel	Univ. of Stuttgart	German Aerospace Center
Allgower, Frank	Univ. of Stuttgart	MIT
14:20-14:40	TuB03.2	TuB04.2
<i>Distributed Team Formation in Multi-Agent Systems: Stability and Approximation</i> , pp. 2755-2760.		
Coviello, Lorenzo	Univ. of California, San Diego	Boston Univ.
Franceschetti, Massimo	Univ. of California, San Diego	Boston Univ.
14:40-15:00	TuB03.3	TuB04.3
<i>Robust Average Consensus Over Packet Dropping Links: Analysis Via Coefficients of Ergodicity</i> , pp. 2761-2766.		
Vaidya, Nitin	Univ. of Illinois at Urbana-Champaign	Boston Univ.
Hadjicostis, Christoforos	Univ. of Cyprus	Univ. of Illinois, Urbana-Champaign
Dominguez-Garcia, Alejandro	Univ. of Illinois at Urbana-Champaign	Boston Univ.
15:00-15:20	TuB03.4	TuB04.4
<i>Optimal Follower Selection Strategy for Multi-Agent System with Single Leader</i> , pp. 2767-2772.		
Yang, Wen	East China Univ. of Science and Tech.	
Wang, Ying	Shanghai Jiaotong Univ.	Univ. of Pennsylvania
Wang, Xiaofan	Shanghai Jiaotong Univ.	Boston Univ.
Shi, Hongbo	East China Univ. of Science and Tech.	Univ. of Pennsylvania
Ou, Linlin	Zhejiang Univ. of Tech.	MIT
15:20-15:40	TuB03.5	TuB04.5
<i>Guaranteed Safe Motion of Multiple Lagrangian Systems with Limited Actuation</i> , pp. 2773-2780.		
Rodríguez-Seda, Erick J.	Univ. of Texas at Dallas	Georgia Inst. of Tech.
Spong, Mark W.	Univ. of Texas at Dallas	Georgia Inst. of Tech.
15:40-16:00	TuB03.6	TuB04.6
<i>Containment Control for Multiple Quadrotors with Stationary Leaders under Directed Graphs</i> , pp. 2781-2786.		
Wang, Yinqiu	Beijing Inst. of Tech.	Princeton Univ.
Wu, Qinghe	Beijing Inst. of Tech.	Princeton Univ.
Wang, Yao	Beijing Inst. of Tech.	Princeton Univ.
TuB04		
Persistent Monitoring (Invited Session)		
Chair: Schwager, Mac	Boston Univ.	
Co-Chair: Cassandras, Christos G.	Boston Univ.	
Organizer: Schwager, Mac	Boston Univ.	
Organizer: Cassandras, Christos G.	Boston Univ.	
14:00-14:20		TuB04.1
<i>Non-Parametric Inference and Coordination for Distributed Robotics (I)</i> , pp. 2787-2794.		
Julian, Brian	MIT	
Angermann, Michael	German Aerospace Center	
Rus, Daniela	MIT	
14:20-14:40		TuB04.2
<i>An Optimal Control Approach to the Multi-Agent Persistent Monitoring Problem (I)</i> , pp. 2795-2800.		
Cassandras, Christos G.	Boston Univ.	
Lin, Xuchao	Boston Univ.	
Ding, Xu Chu	United Tech. Res. Center	
14:40-15:00		TuB04.3
<i>Multi-Agent Persistent Monitoring in Stochastic Environments with Temporal Logic Constraints (I)</i> , pp. 2801-2806.		
Chen, Yushan	Boston Univ.	
Deng, Kun	Univ. of Illinois, Urbana-Champaign	
Belta, Calin	Boston Univ.	
15:00-15:20		TuB04.4
<i>A Decentralized Control Policy for Adaptive Information Gathering in Hazardous Environments (I)</i> , pp. 2807-2813.		
Dames, Philip	Univ. of Pennsylvania	
Schwager, Mac	Boston Univ.	
Kumar, Vijay	Univ. of Pennsylvania	
Rus, Daniela	MIT	
15:20-15:40		TuB04.5
<i>Coherent Steps of Mobile Sensing Agents in Gaussian Scalar Fields</i> , pp. 2814-2819.		
Wu, Wencen	Georgia Inst. of Tech.	
Zhang, Fumin	Georgia Inst. of Tech.	
15:40-16:00		TuB04.6
<i>Towards Optimization of a Human-Inspired Heuristic for Solving Explore-Exploit Problems</i> , pp. 2820-2825.		
Reverdy, Paul	Princeton Univ.	
Wilson, Robert C	Princeton Univ.	
Holmes, Philip	Princeton Univ.	
Leonard, Naomi Ehrich	Princeton Univ.	
TuB05		Plumeria 2
System Identification IV (Regular Session)		
Chair: Lyzell, Christian	Linköpings Univ.	
Co-Chair: Li, Xiang	Fudan Univ.	
14:00-14:20		TuB05.1
<i>Sparse Coloured System Identification with Guaranteed Stability</i> , pp. 2826-2831.		
Seneviratne, Akila	Univ. of New South Wales	
Solo, Victor	Univ. of New South Wales	

14:20-14:40	TuB05.2
<i>Kernel-Based Non-Asymptotic Parameter Estimation of Continuous-Time Systems</i> , pp. 2832-2839.	
Pin, Gilberto	Danieli Automation S.p.A. (Italy)
Assalone, Andrea	Univ. of Trieste
Lovera, Marco	Pol. di Milano
Parisini, Thomas	Imperial Coll. & Univ. of Trieste
14:40-15:00	TuB05.3
<i>A Data-Driven Inference Algorithm for Epidemic Pathways Using Surveillance Reports in 2009 Outbreak of Influenza a (H1N1)</i> , pp. 2840-2845.	
Li, Xun	Fudan Univ.
Li, Xiang	Fudan Univ.
Jin, Yu-Ying	Shanghai Univ. of Finance ad Ec.
15:00-15:20	TuB05.4
<i>Sensor-To-Sensor Identification of Hammerstein Systems</i> , pp. 2846-2851.	
Aljanaideh, Khaled	Univ. of Michigan
Ali, Asad	Univ. of Michigan
Holzel, Matthew	Univ. of Michigan
Kukreja, Sunil, L.	NASA Dryden Flight Res. Center
Bernstein, Dennis S.	Univ. of Michigan
15:20-15:40	TuB05.5
<i>A Convex Relaxation of a Dimension Reduction Problem Using the Nuclear Norm</i> , pp. 2852-2857.	
Lyzell, Christian	Linköping Univ.
Andersen, Martin	Linköping Univ.
Enqvist, Martin	Linköping Univ.
15:40-16:00	TuB05.6
<i>Convergence Analysis and Experiments Using an RPEM Based on Nonlinear ODEs and Midpoint Integration</i> , pp. 2858-2865.	
Tayamon, Soma	Uppsala Univ.
Wigen, Torbjorn	Uppsala Univ.
Schoukens, Johan	Vrije Univ. Brussels
TuB06 Plumeria 3	
Uncertain Systems II (Regular Session)	
Chair: Garone, Emanuele	Univ. Libre de Bruxelles
Co-Chair: Yucelen, Tansel	Georgia Inst. of Tech.
14:00-14:20	TuB06.1
<i>Additive-Output-Decomposition-Based Dynamic Inversion Tracking Control for a Class of Uncertain Linear Time-Invariant Systems</i> , pp. 2866-2871.	
Quan, Quan	Beijing Univ. of Aeronautics and Astronautics
Cai, Kai-Yuan	Beijing Univ. of Aeronautics and Astronautics
14:20-14:40	TuB06.2
<i>Robust Stability of Linear Uncertain Systems through Piecewise Quadratic Lyapunov Functions Defined Over Conical Partitions</i> , pp. 2872-2877.	
Ambrosino, Roberto	Univ. di Napoli, Parthenope
Garone, Emanuele	Univ. Libre de Bruxelles

14:40-15:00	TuB06.3
<i>Robust Backstepping Control of Missile Lateral and Rolling Motions in the Presence of Unmatched Uncertainties</i> , pp. 2878-2883.	
Mattei, Giovanni	Univ. di Roma
Monaco, Salvatore	Univ. di Roma
15:00-15:20 TuB06.4	
<i>A Robust Adaptive Control Architecture with L^∞ Transient and Steady-State Performance Guarantees</i> , pp. 2884-2889.	
Yucelen, Tansel	Georgia Inst. of Tech.
Haddad, Wassim M.	Georgia Inst. of Tech.
15:20-15:40	TuB06.5
<i>Design and Analysis of a Novel Command Governor Architecture for Shaping the Transient Response of Nonlinear Uncertain Dynamical Systems</i> , pp. 2890-2895.	
Yucelen, Tansel	Georgia Inst. of Tech.
Johnson, Eric N.	Georgia Inst. of Tech.
15:40-16:00	TuB06.6
<i>Continuous and Discrete-Time D-Stability, Joint D-Stability, and Their Applications: μ Theory and Diagonal Stability Approaches</i> , pp. 2896-2901.	
Kim, Kwang-Ki	UIUC/MIT
Braatz, Richard D.	Massachusetts Inst. of Tech.
TuB07 Maile 1	
Distributed Parameter Systems III (Invited Session)	
Chair: Demetriou, Michael A.	Worcester Pol. Inst.
Co-Chair: Borggaard, Jeff	Virginia Tech.
Organizer: Demetriou, Michael A.	Worcester Pol. Inst.
Organizer: Fahroo, Fariba	AFOSR
14:00-14:20	TuB07.1
<i>Robust Stabilization of an Uncertain Diffusion Process with Boundary Control and Sensing (I)</i> , pp. 2902-2907.	
Orlov, Yury	CICESE
Pisano, Alessandro	Univ. di Cagliari
Usai, Elio	Univ. di Cagliari
14:20-14:40	TuB07.2
<i>A Predictor-Corrector Approach for Multi-Rate Sampled-Data Control of Spatially Distributed Systems (I)</i> , pp. 2908-2913.	
Yao, Zhiyuan	Univ. of California, Davis
Ei-Farra, Nael H.	Univ. of California, Davis
14:40-15:00	TuB07.3
<i>Stabilization of a Linear Hyperbolic System with One Boundary Controlled Transport PDE Coupled with n Counterconvecting PDEs (I)</i> , pp. 2914-2919.	
Di Meglio, Florent	Univ. of California, San Diego
Vazquez, Rafael	Univ. de Sevilla
Krstic, Miroslav	Univ. of California, San Diego
15:00-15:20	TuB07.4
<i>Receding Horizon Control with Numerical Solution for Spatiotemporal Dynamic Systems (I)</i> , pp. 2920-2925.	
Hashimoto, Tomoaki	Osaka Univ.
Yoshioka, Yusuke	Osaka Univ.
Ohtsuka, Toshiyuki	Osaka Univ.

15:20-15:40	TuB07.5	
<i>Optimization-Based Estimation of Random Distributed Parameters in Elliptic Partial Differential Equations (I)</i> , pp. 2926-2933.		
Borggaard, Jeff van Wyk, Hans-Werner	Virginia Tech. Virginia Tech.	
15:40-16:00	TuB07.6	
<i>Asymptotic Stability of Forced Equilibria for Distributed Port-Hamiltonian Systems</i> , pp. 2934-2939.		
Macchelli, Alessandro	Univ. of Bologna	
TuB08	Maile 2	
Stability of Nonlinear Systems II (Regular Session)		
Chair: Michel, Anthony N. Co-Chair: Rüffer, Björn Sebastian	Univ. of Notre Dame Univ. of Paderborn	
14:00-14:20	TuB08.1	
<i>Relaxation of Hypotheses in LaSalle-Krasovskii Type Invariance Results (I)</i> , pp. 2940-2945.		
Michel, Anthony N. Hou, Ling	Univ. of Notre Dame St. Cloud State Univ.	
14:20-14:40	TuB08.2	
<i>Stability of Non-Polynomial Systems Using Differential Inclusions and Polynomial Lyapunov Functions</i> , pp. 2946-2951.		
Hexner, Gyorgy	RAFAEL, Haifa	
14:40-15:00	TuB08.3	
<i>Dynamic Boundary Stabilization of Linear and Quasi-Linear Hyperbolic Systems</i> , pp. 2952-2957.		
Castillo, Felipe Witrant, Emmanuel Prieur, Christophe Dugard, Luc	Gipsa Lab. Univ. Joseph Fourier CNRS CNRS-Grenoble INP	
15:00-15:20	TuB08.4	
<i>From Convergent Dynamics to Incremental Stability</i> , pp. 2958-2963.		
Rüffer, Björn S. Van De Wouw, Nathan Mueller, Markus	Univ. of Paderborn Eindhoven Univ. of Tech. Univ. of Exeter	
15:20-15:40	TuB08.5	
<i>Asymptotic Stabilization of Nonlinear Systems Via Sign-Indefinite Damping Injection</i> , pp. 2964-2969.		
Sarras, Ioannis Ortega, Romeo Panteley, Elena V.	- LSS-SUPELEC LSS, CNRS - SUPELEC	
15:40-16:00	TuB08.6	
<i>A Generalization of Input-To-State Stability</i> , pp. 2970-2975.		
Kellett, Christopher M. Dower, Peter M.	Univ. of Newcastle Univ. of Melbourne	
TuB09	Maile 3	
Control and Optimization Methods in Medicine and Biology (Invited Session)		
Chair: Paschalidis, Ioannis Co-Chair: Vidyasagar, Mathukumalli Organizer: Paschalidis, Ioannis Organizer: Shi, Leyuan	Boston Univ. Univ. of Texas, Dallas Boston Univ. Univ. of Wisconsin, Madison	
14:00-14:20	TuB09.1	
<i>A New Feature Selection Algorithm for Two-Class Classification Problems and Application to Endometrial Cancer (I)</i> , pp. 2976-2982.		
Ahsen, Mehmet Eren Singh, Nitin Boren, Todd Vidyasagar, Mathukumalli White, Michael A	Univ. of Texas, Dallas Univ. of Texas, Dallas UT Southwestern Medical Center Univ. of Texas, Dallas UT Southwestern Medical Center	
14:20-14:40	TuB09.2	
<i>A New Approach to Rigid Body Minimization with Application to Molecular Docking (I)</i> , pp. 2983-2988.		
Mirzaei, Hanieh Kozakov, Dima Beglov, Dmitri Vajda, Sandor Paschalidis, Ioannis Vakili, Pirooz	Boston Univ. Boston Univ. Boston Univ. Boston Univ. Boston Univ. Boston Univ.	
14:40-15:00	TuB09.3	
<i>Remarks on the Validation of Biological Models Using Monotone Systems Theory (I)</i> , pp. 2989-2994.		
Angeli, David Sontag, Eduardo D.	Imperial Coll. Rutgers Univ.	
15:00-15:20	TuB09.4	
<i>Dynamic Edge Adaptation in Delayed Oscillator Networks (I)</i> , pp. 2995-3000.		
Mason, Richard Paul Papachristodoulou, Antonis	Univ. of Oxford Univ. of Oxford	
15:20-15:40	TuB09.5	
<i>Finding Invariant Sets for Biological Systems Using Monomial Domination</i> , pp. 3001-3006.		
August, Elias Koepll, Heinz Craciun, Gheorghe	ETH Zurich ETH Zurich Univ. of Wisconsin, Madison	
15:40-16:00	TuB09.6	
<i>Optimal Circadian Rhythm Control with Light Input for Rapid Entrainment and Improved Vigilance</i> , pp. 3007-3012.		
Zhang, Jiaxiang Wen, John T. Julius, Agung	Rensselaer Pol. Inst. Rensselaer Pol. Inst. Rensselaer Pol. Inst.	

TuB10	Pikake 1
New Directions in Control Design for Quantum Systems I (Invited Session)	
Chair: James, Matthew R.	Australian National Univ.
Co-Chair: Mason, Paolo	CNRS, Lab. des Signaux et Systèmes, Supélec
Organizer: Caponigro, Marco	Rutgers Univ.
Organizer: James, Matthew R.	Australian National Univ.
Organizer: Long, Ruixing	Princeton Univ.
Organizer: Mason, Paolo	CNRS, Lab. des Signaux et Systèmes, Supélec
14:00-14:20	TuB10.1
<i>Frequency-Domain Model of a Class of Open Quantum Control Systems (I)</i> , pp. 3013-3018.	
Wu, Rebing	Tsinghua Univ.
Zhang, Jing	Tsinghua Univ.
Li, Chunwen	Tsinghua Univ.
Tarn, Tzyh-Jong	Washington Univ.
14:20-14:40	TuB10.2
<i>Preservation of Commutation Relations and Physical Realizability of Open Two-Level Quantum Systems (I)</i> , pp. 3019-3023.	
Duffaut Espinosa, Luis Augusto	Univ. of New South Wales at ADFA
Miao, Zibo	Res. School of Engineering, Australian National University
Petersen, Ian R.	Univ. of New South Wales at ADFA
Ugrinovskii, Valery	Univ. of New South Wales
James, Matthew R.	Australian National Univ.
14:40-15:00	TuB10.3
<i>Approximate Controllability of the Schrödinger Equation with a Polarizability Term (I)</i> , pp. 3024-3029.	
Boussaïd, Nabile	Univ. de Franche-Comté
Caponigro, Marco	Rutgers Univ.
Chambrion, Thomas	Univ. de Lorraine
15:00-15:20	TuB10.4
<i>Indirect Controllability and Indirect Observability of Quantum Mechanical Systems (I)</i> , pp. 3030-3037.	
D'Alessandro, Domenico	Iowa State Univ.
Romano, Raffaele	Univ. of Trieste
15:20-15:40	TuB10.5
<i>Controllability of the Bilinear Schrödinger Equation with Several Controls and Application to a 3D Molecule (I)</i> , pp. 3038-3043.	
Boscain, Ugo V.	CNRS
Caponigro, Marco	Rutgers Univ.
Sigalotti, Mario	INRIA Saclay
15:40-16:00	TuB10.6
<i>Controllability of the Schroedinger Equation Via Adiabatic Methods and Conical Intersections of the Eigenvalues (I)</i> , pp. 3044-3049.	
Chittaro, Francesca	LSIS
Mason, Paolo	CNRS, Lab. des Signaux et Systèmes, Supélec
Boscain, Ugo V.	CNRS
Sigalotti, Mario	INRIA Saclay
TuB11	Pikake 2
Energy Systems II (Regular Session)	
Chair: Pao, Lucy Y.	Univ. of Colorado, Boulder
Co-Chair: Cigler, Jiri	Czech Tech. Univ. in Prague
14:00-14:20	TuB11.1
<i>Comparison of Feedforward and Model Predictive Control of Wind Turbines Using LIDAR</i> , pp. 3050-3055.	
Schlipf, David	Stuttgart Wind Energy, Univ. of Stuttgart
Pao, Lucy Y.	Univ. of Colorado Boulder
Cheng, Po Wen	Stuttgart Wind Energy, Univ. of Stuttgart
14:20-14:40	TuB11.2
<i>Optimization of Predicted Mean Vote Thermal Comfort Index within Model Predictive Control Framework</i> , pp. 3056-3061.	
Cigler, Jiri	Czech Tech. Univ. in Prague
Privara, Samuel	Czech Tech. Univ. in Prague
Vana, Zdenek	Czech Tech. Univ. in Prague
Komarkova, Dana	Masaryk Univ.
Sebek, Michael	Czech Tech. Univ. in Prague
14:40-15:00	TuB11.3
<i>Finite-Time Convergent Observer Design and Adaptive Control of a Nonlinear Boiler System (I)</i> , pp. 3062-3067.	
Votion, Johnathan	Univ. of Texas at San Antonio
Zhang, Chuanlin	Southeast Univ.
Qian, Chunjiang	Univ. of Texas at San Antonio
Li, Shihua	Southeast Univ.
15:00-15:20	TuB11.4
<i>Nonlinear Control of Dc-Dc Bidirectional Converters in Stand-Alone Dc Microgrids</i> , pp. 3068-3073.	
Pires Nóbrega Tahim, André	Federal Univ. of Santa Catarina
Pagano, Daniel Juan	Federal Univ. of Santa Catarina
Ponce, Enrique	E.S. Ingenieros Univ. Sevilla
15:20-15:40	TuB11.5
<i>An Electrochemical Model-Based Particle Filter Approach for Lithium-Ion Battery Estimation</i> , pp. 3074-3079.	
Samadi, Mohammad Foad	Simon Fraser Univ.
Alavi, S.M. Mahdi	Univ. of Windsor
Saif, Mehrdad	Univ. of Windsor
15:40-16:00	TuB11.6
<i>The Coordinated Control of Fossil-Fuel Power Plant Based on the Fuzzy PID Control</i> , pp. 3080-3085.	
Li, Xiao-Feng	Electric Power Res. Inst. of GuangdongPowerGroupCo.
Zhang, Weidong	Shanghai Jiaotong Univ.
TuB12	Pikake 3
Unmanned Air Vehicles (Regular Session)	
Chair: Capello, Elisa	DIMEAS
Co-Chair: Dai, Ran	Univ. of Washinton
14:00-14:20	TuB12.1
<i>A Simulation-Based Approach for Control Design of Uncertain UAVs</i> , pp. 3086-3091.	
Capello, Elisa	DIMEAS
Tempo, Roberto	CNR-IEIIT, Pol. di Torino

14:20-14:40	TuB12.2
<i>UAV Search & Capture of a Moving Ground Target under Delayed Information (I)</i> , pp. 3092-3097.	
Kalyanam, Krishnamoorthy Casbeer, David W. Chandler, Phillip R. Pachter, Meir Darbha, Swaroop	Infoscitex Corp. Air Force Res. Lab. USAF AFIT/ENG Texas A & M Univ.
14:40-15:00	TuB12.3
<i>Navigation of UAVs for Tracking of Atmospheric Release of Radiation</i> , pp. 3098-3103.	
Smidl, Vaclav Hofman, Radek	UTIA, AV CR Inst. of Information Theory and Automation
15:00-15:20	TuB12.4
<i>Optimal Path Planning for Solar-Powered UAVs Based on Unit Quaternions</i> , pp. 3104-3109.	
Dai, Ran Lee, Unsik Hosseini, Saghaf Mesbahi, Mehran	Iowa State Univ. Univ. of Washington Univ. of Washington Univ. of Washington
15:20-15:40	TuB12.5
<i>PID Switching Control for a Highway Estimation and Tracking Applied on a Convertible Mini-UAV</i> , pp. 3110-3115.	
Flores, Gerardo Garcia Carrillo, Luis Rodolfo Sanahuja, Guillaume Lozano, Rogelio	Univ. of Tech. of Compiègne Univ. of California, Santa Barbara Univ. de Tech. de Compiègne Univ. de Technologie
15:40-16:00	TuB12.6
<i>Synchronized Cross Coupled Sliding Mode Controllers for Cooperative UAVs with Communication Delays</i> , pp. 3116-3121.	
Rezaee, Hamed Abdollahi, Farzaneh	Amirkabir Univ. of Tech. Concordia Univ.
TuB13	
Control Applications II (Regular Session)	
Chair: Jovanovic, Mihailo Co-Chair: Yamamoto, Shigeru	Univ. of Minnesota Kanazawa Univ.
14:00-14:20	TuB13.1
<i>Turbulent Drag Reduction by Streamwise Traveling Waves</i> , pp. 3122-3126.	
Zare, Armin Lieu, Binh K. Jovanovic, Mihailo	Univ. of Minnesota Univ. of Minnesota Univ. of Minnesota
14:20-14:40	TuB13.2
<i>Gain Scheduled Control Strategies for a Nonlinear Electrostatic Microgripper: Design and Real Time Implementation</i> , pp. 3127-3132.	
Boudaoud, Mokrane Le Gorrec, Yann Haddab, Yassine LUTZ, Philippe	Femto-ST Inst. Univ. of Franche-Comté ENSM, FEMTO-ST / AS2M FEMTO-ST FEMTO-ST
14:40-15:00	TuB13.3
<i>A PID Tuning Method Based on Matching between One-Shot Experimental Data and Filtered Desired Closed-Loop Responses</i> , pp. 3133-3138.	
Ikegami, Naoki Yamamoto, Shigeru Kaneko, Osamu	Kanazawa Univ. Kanazawa Univ. Kanazawa Univ.
15:00-15:20	TuB13.4
<i>Tracking Error Analysis for Singularly Perturbed Systems Preceded by Piecewise Linear Hysteresis</i> , pp. 3139-3144.	
Edardar, Mohamed Tan, Xiaobo Khalil, Hassan K.	Michigan State Univ. Michigan State Univ. Michigan State Univ.
15:20-15:40	TuB13.5
<i>Deformation Control of a 1-Dimensional Microbeam with In-Domain Actuation</i> , pp. 3145-3150.	
Badkoubeh, Amir Zhu, Guchuan	Ec. Pol. de Montreal Ec. Pol. de Montreal
15:40-16:00	TuB13.6
<i>Integrated Solution to Quadrotor Stabilization and Attitude Estimation Using a Pan and Tilt Camera</i> , pp. 3151-3156.	
Cabecinhas, David Brás, Sérgio Silvestre, Carlos Oliveira, Paulo Jorge Cunha, Rita	Inst. Superior Técnico Inst. Superior Técnico University of Macau Inst. Superior Técnico Inst. Superior Técnico
TuB14	
Optimization II (Regular Session)	
Chair: Polyak, Boris T. Co-Chair: Materassi, Donatello	Moscow Inst. of Control Sciences Massachusetts Inst. of Tech.
14:00-14:20	TuB14.1
<i>Optimal Trajectory Generation under Homology Class Constraints</i> , pp. 3157-3164.	
Kim, Soonkyum Sreenath, Koushil Bhattacharya, Subhrajit Kumar, Vijay	Univ. of Pennsylvania Univ. of Pennsylvania Univ. of Pennsylvania Univ. of Pennsylvania
14:20-14:40	TuB14.2
<i>Execution Time Certification for Gradient-Based Optimization in Model Predictive Control</i> , pp. 3165-3170.	
Giselsson, Pontus	Lund Univ.
14:40-15:00	TuB14.3
<i>Robust Eigenvector of a Stochastic Matrix with Application to PageRank</i> , pp. 3171-3176.	
Juditsky, Anatoli Polyak, Boris T.	UJF Moscow Inst. of Control Sciences
15:00-15:20	TuB14.4
<i>Moving Horizon Estimation for Staged QP Problems</i> , pp. 3177-3182.	
Chu, Eric Yan Tin Keshavarz, Arezou Gorinevsky, Dimitry Boyd, Stephen P.	Stanford Univ. Stanford Univ. Stanford Univ. Stanford Univ.

15:20-15:40	TuB14.5	Haleakala Ballroom 3
<i>Equilibrium Price Distributions in Energy Markets with Shiftable Demand</i> , pp. 3183-3188.		
Materassi, Donatello	Massachusetts Inst. of Tech.	
Roozbehani, Mardavij	Massachusetts Inst. of Tech.	
Dahleh, Munther A.	Massachusetts Inst. of Tech.	
15:40-16:00	TuB14.6	
<i>Automatic Seizure Onset Detection in Drug-Resistant Epilepsy: A Bayesian Optimal Solution</i> , pp. 3189-3194.		
Santaniello, Sabato	Johns Hopkins Univ.	
Burns, Samuel	Johns Hopkins Univ.	
Sarma, Sridevi	Johns Hopkins Univ.	
TuB15	Ilima 3	
Linear Systems II (Regular Session)		
Chair: Bonilla, Moises E.	CINVESTAV-IPN	
Co-Chair: Trenn, Stephan	Univ. of Kaiserslautern	
14:00-14:20	TuB15.1	
<i>Dead-Beat Control of Two-Dimensional Behaviors</i> , pp. 3195-3202.		
Bisiacco, Mauro	Univ. di Padova	
Valcher, Maria Elena	Univ. di Padova	
14:20-14:40	TuB15.2	
<i>Switched Behaviors with Impulses - a Unifying Framework</i> , pp. 3203-3208.		
Trenn, Stephan	Univ. of Kaiserslautern	
Willems, Jan C.	K.U. Leuven	
14:40-15:00	TuB15.3	
<i>Description of Switched Systems by Implicit Representations</i> , pp. 3209-3214.		
Bonilla, Moises E.	CINVESTAV-IPN	
Malabre, Michel	CNRS	
15:00-15:20	TuB15.4	
<i>Generalization of Proportional Adaptation Law for L1 Adaptive Controller</i> , pp. 3215-3220.		
Vanness, Justin	Univ. of Illinois, Urbana - Champaign	
Kharisov, Evgeny	Univ. of Illinois, Urbana-Champaign	
Hovakimyan, Naira	Univ. of Illinois, Urbana-Champaign	
15:20-15:40	TuB15.5	
<i>Back-And-Forth Operation of State Observers and Norm Estimation of Estimation Error</i> , pp. 3221-3226.		
Shim, Hyungbo	Seoul National Univ.	
Tanwani, Aneel	INRIA - Rhone Alpes	
Ping, Zhaowu	Seoul National Univ.	
15:40-16:00	TuB15.6	
<i>On the Decoupling Problem of Linear Multivariable Systems by Static State Feedback</i> , pp. 3227-3232.		
Castañeda Toledo, Eduardo	Centro de Investigación y de Estudios Avanzados del I.P.N.Unida	
Ruiz-Leon, Javier	CINVESTAV-Guadalajara	
TuB16		
Constrained Control (Regular Session)		
Chair: Yu, Han	Univ. of Notre Dame	
Co-Chair: Chen, Hong	Jilin Univ. Campus NanLing	
14:00-14:20	TuB16.1	
<i>Model Predictive Control of Stochastic LPV Systems Via Random Convex Programs</i> , pp. 3233-3238.		
Calafiole, Giuseppe	Pol. di Torino	
Fagiano, Lorenzo	Pol. di Torino/Univ. California at Santa Barbara	
14:20-14:40	TuB16.2	
<i>Control of State-Constrained Nonlinear Systems Using Integral Barrier Lyapunov Functionals</i> , pp. 3239-3244.		
Tee, Keng Peng	Inst. for Infocomm Res.	
Ge, Shuzhi Sam	Univ. of Electronic Science and Tech. of China	
14:40-15:00	TuB16.3	
<i>Reduced Order Reference Governor</i> , pp. 3245-3251.		
Kalabic, Uros V.	Univ. of Michigan	
Kolmanovsky, Ilya V.	Univ. of Michigan	
Buckland, Julia	Ford Motor Company	
Gilbert, Elmer G.	Univ. of Michigan	
15:00-15:20	TuB16.4	
<i>7cbgYbgi gJb' h\ YBYh cf_ k jh ' l b]Zcfa '7cbghJbh Unknown 7ca a i b]Wlhcb Delay</i> , pp. 3252-3257.		
Wang, Xu	New York Univ.	
Saberi, Ali	Washington State Univ.	
Stoorvogel, Anton A.	Univ. of Twente	
15:20-15:40	TuB16.5	
<i>Model Predictive Control with Reduced Number of Variables for Linear Systems with Bounded Disturbances</i> , pp. 3258-3263.		
Ong, Chong-Jin	National Univ. of Singapore	
15:40-16:00	TuB16.6	
<i>Terminal Set of Min-Max Model Predictive Control with Guaranteed L2 Performance</i> , pp. 3264-3269.		
Yu, Shuyou	Jilin Univ.	
Maier, Christoph	Univ. of Stuttgart	
Chen, Hong	Jilin Univ.	
Allgower, Frank	Univ. of Stuttgart	
TuB17	Haleakala Ballroom 5	
Event-Triggered and Self-Triggered Control (Tutorial Session)		
Chair: Tabuada, Paulo	Univ. of California at Los Angeles	
Co-Chair: Heemels, W.P.M.H.	Eindhoven Univ. of Tech.	
Organizer: Tabuada, Paulo	Univ. of California at Los Angeles	
Organizer: Heemels, W.P.M.H.	Eindhoven Univ. of Tech.	
Organizer: Johansson, Karl H.	KTH Royal Inst. of Tech.	
14:00-14:40	TuB17.1	
<i>An Introduction to Event-Triggered and Self-Triggered Control (I)</i> , pp. 3270-3285.		
Heemels, W.P.M.H.	Eindhoven Univ. of Tech.	
Johansson, Karl H.	KTH Royal Inst. of Tech.	
Tabuada, Paulo	Univ. of California at Los Angeles	

14:40-15:20	TuB17.2
<i>Output-Based Event-Triggered Control (I)*.</i> PDE	
Heemels, W.P.M.H.	Eindhoven Univ. of Tech.
15:20-16:00	
<i>Wireless Event-Triggered Control (I)*.</i> PDE	
Johansson, Karl H.	KTH Royal Inst. of Tech.
TuC01	Hibiscus 1
Networked Systems: Sensing, Scheduling, Estimation, and Control Over Networks (Invited Session)	
Chair: Qiu, Li	Hong Kong Univ. of Sci. & Tech.
Co-Chair: Johansson, Karl H.	KTH Royal Inst. of Tech.
Organizer: Shi, Ling	Hong Kong Univ. of Sci. & Tech.
Organizer: Qiu, Li	Hong Kong Univ. of Sci. & Tech.
Organizer: Johansson, Karl H.	KTH Royal Inst. of Tech.
16:30-16:50	TuC01.1
<i>Data Rate Limitations for Stabilization of Uncertain Systems (I),</i> pp. 3286-3291.	
Okano, Kunihisa	Tokyo Inst. of Tech.
Ishii, Hideaki	Tokyo Inst. of Tech.
16:50-17:10	TuC01.2
<i>Distributed Formation Control of Networked Passive Systems with Event-Driven Communication (I),</i> pp. 3292-3297.	
Yu, Han	Univ. of Notre Dame
Antsaklis, Panos J.	Univ. of Notre Dame
17:10-17:30	TuC01.3
<i>LQG Control of LTI Systems with Random Input and Output Gains (I),</i> pp. 3298-3304.	
Chen, Wei	Hong Kong Univ. of Sci. & Tech.
Zheng, Jianying	Hong Kong Univ. of Sci. & Tech.
Qiu, Li	Hong Kong Univ. of Sci. & Tech.
17:30-17:50	TuC01.4
<i>An Improved Hybrid Sensor Schedule for Remote State Estimation under Limited Communication Resources (I),</i> pp. 3305-3310.	
Wu, Junfeng	Hong Kong Univ. of Sci. & Tech.
Johansson, Karl H.	KTH Royal Inst. of Tech.
Shi, Ling	Hong Kong Univ. of Sci. & Tech.
17:50-18:10	TuC01.5
<i>Infinite Horizon LQG Control with Fixed-Rate Quantization (I),</i> pp. 3311-3316.	
Fu, Minyue	Univ. of Newcastle
Chai, Li	Wuhan Univ. of Science and Tech.
18:10-18:30	TuC01.6
<i>Infinite-Horizon Sensor Scheduling for Estimation Over Lossy Networks (I),</i> pp. 3317-3322.	
Mo, Yilin	Carnegie Mellon Univ.
Sinopoli, Bruno	Carnegie Mellon Univ.
Shi, Ling	Hong Kong Univ. of Sci. & Tech.
Garone, Emanuele	Univ. Libre de Bruxelles

TuC02	Hibiscus 2
Sensor Networks IV (Regular Session)	
Chair: Fierro, Rafael	Univ. of New Mexico
Co-Chair: Corless, Martin J.	Purdue Univ.
16:30-16:50	
<i>Stochastic Stabilization of Partially Observed and Multi-Sensor Systems Driven by Gaussian Noise under Fixed-Rate Information Constraints,</i> pp. 3323-3328.	
Johnston, Andrew Peter	Queen's Univ.
Yuksel, Serdar	Queen's Univ.
16:50-17:10	TuC02.2
<i>Optimizing Weighted Graph Topology for Robust Network Information Dissemination,</i> pp. 3329-3334.	
Liu, Zhenyi	Texas Tech. Univ.
Zhang, Haopeng	Texas Tech. Univ.
Smith, Philip	Texas Tech. Univ.
Hui, Qing	Texas Tech. Univ.
17:10-17:30	TuC02.3
<i>Power Allocation for Error Covariance Minimization in Kalman Filtering Over Packet Dropping Links,</i> pp. 3335-3340.	
Dey, Subhrakanti	Univ. of Melbourne
Leong, Alex	Univ. of Melbourne
17:30-17:50	TuC02.4
<i>Minimum-Energy Packet Forwarding Policies for Guaranteed LQG Performance in Wireless Control Systems,</i> pp. 3341-3346.	
Zou, Zhenhua	KTH Royal Inst. of Tech.
Demirel, Burak	KTH Royal Inst. of Tech.
Johansson, Mikael	KTH Royal Inst. of Tech.
17:50-18:10	TuC02.5
<i>A Decentralized Algorithm for Assigning the Weighting Parameters in a General Synchronous Consensus Network,</i> pp. 3347-3352.	
Corless, Martin J.	Purdue Univ.
Coduti, Leonardo	Purdue Univ.
18:10-18:30	TuC02.6
<i>A Binary Consensus Approach to Decentralized Coordination of Nonholonomic Sensor Networks,</i> pp. 3353-3359.	
Luna, Jose Marcio	Univ. of New Mexico
Fierro, Rafael	Univ. of New Mexico
Abdallah, Chaouki T.	Univ. of New Mexico
Lewis, Frank L.	Univ. of Texas, Arlington
TuC03	Hibiscus 3
Autonomous Systems (Regular Session)	
Chair: Sprinkle, Jonathan	Univ. of Arizona
Co-Chair: Paley, Derek A.	Univ. of Maryland
16:30-16:50	TuC03.1
<i>Mitigating Uncertainty in Stackelberg Games,</i> pp. 3360-3365.	
Parsaeefard, Saeedeh	Univ. of California, Los Angeles
van der Schaar, Mihaela	Univ. of California Los Angeles
Sharafat, A.	Tarbiat Modares Univ.

16:50-17:10	TuC03.2	
<i>Terrain-Based Vehicle Localization from Real-Time Data Using Dynamical Models</i> , pp. 3366-3371.		
Laftchiev, Emil Lagoa, Constantino M. Brennan, Sean	Pennsylvania State Univ. Pennsylvania State Univ. Pennsylvania State Univ.	
17:10-17:30	TuC03.3	
<i>Robust Control of Uncertain Markov Decision Processes with Temporal Logic Specifications</i> , pp. 3372-3379.		
Wolff, Eric Topcu, Ufuk Murray, Richard M.	California Inst. of Tech. California Inst. of Tech. California Inst. of Tech.	
17:30-17:50	TuC03.4	
<i>A Passenger Comfort Controller for an Autonomous Ground Vehicle</i> , pp. 3380-3385.		
Whitsitt, Sean Sprinkle, Jonathan	Univ. of Arizona Univ. of Arizona	
17:50-18:10	TuC03.5	
<i>Dual Quaternions, Rigid Body Mechanics, and Powered-Descent Guidance</i> , pp. 3386-3391.		
Lee, Unsix Mesbahi, Mehran	Univ. of Washington Univ. of Washington	
18:10-18:30	TuC03.6	
<i>Thermal Highs and Pitfall Lows - Notes on the Journey to the First Cooperative Autonomous Soaring Flight</i> , pp. 3392-3397.		
Andersson, Klas Jones, Kevin Dobrokhotov, Vladimir Kaminer, Isaac	NPS / KTH Naval Postgraduate School Naval Postgraduate School Naval Postgraduate School	
TuC04	Plumeria 1	
Security and Privacy in Cyber-Physical Systems (Invited Session)		
Chair: Pasqualetti, Fabio Co-Chair: Mo, Yilin Organizer: Pasqualetti, Fabio Organizer: Mo, Yilin	Univ. of California, Santa Barbara Carnegie Mellon Univ. Univ. of California, Santa Barbara Carnegie Mellon Univ.	
16:30-16:50	TuC04.1	
<i>Differentially Private Filtering</i> (I), pp. 3398-3403.		
Le Ny, Jerome Pappas, George J.	Ec. Pol. de Montreal Univ. of Pennsylvania	
16:50-17:10	TuC04.2	
<i>Game-Theoretic Analysis of Node Capture and Cloning Attack with Multiple Attackers in Wireless Sensor Networks</i> (I), pp. 3404-3411.		
Zhu, Quanyan Bushnell, Linda Basar, Tamer	Univ. of Illinois, Urbana-Champaign Univ. of Washington Univ. of Illinois, Urbana-Champaign	
17:10-17:30	TuC04.3	
<i>Security for Control Systems under Sensor and Actuator Attacks</i> (I), pp. 3412-3417.		
Fawzi, Hamza Tabuada, Paulo Diggavi, Suhas	Univ. of California, Los Angeles Univ. of California, Los Angeles Univ. of California, Los Angeles	
17:30-17:50	TuC04.4	
<i>Cyber-Physical Security Via Geometric Control: Distributed Monitoring and Malicious Attacks</i> (I), pp. 3418-3425.		
Pasqualetti, Fabio Dörfler, Florian Bullo, Francesco	Univ. of California, Santa Barbara Univ. of California, Santa Barbara Univ. of California, Santa Barbara	
17:50-18:10	TuC04.5	
<i>Robustness of Complex Networks with Implications for Consensus and Contagion</i> (I), pp. 3426-3432.		
Zhang, Haotian Sundaram, Shreyas	Univ. of Waterloo Univ. of Waterloo	
18:10-18:30	TuC04.6	
<i>A Tractable Nonlinear Fault Detection and Isolation Technique with Application to the Cyber-Physical Security of Power Systems</i> , pp. 3433-3438.		
Mohajerin Esfahani, Peyman Vrakopoulou, Maria Andersson, Goran Lygeros, John	ETH Zurich ETH Zurich ETH Zurich ETH Zurich	
TuC05	Plumeria 2	
Identification Techniques (Regular Session)		
Chair: Hansson, Anders Co-Chair: Oomen, Tom	Linkoping Univ. Eindhoven Univ. of Tech.	
16:30-16:50	TuC05.1	
<i>Subspace System Identification Via Weighted Nuclear Norm Optimization</i> , pp. 3439-3444.		
Hansson, Anders Liu, Zhang Vandenberghe, Lieven	Linkoping Univ. Northrop Grumman Corp. Univ. of California at Los Angeles	
16:50-17:10	TuC05.2	
<i>Estimation of Cross-Power and Auto-Power Spectral Densities in Frequency Domain by Subspace Methods</i> , pp. 3445-3450.		
Akcay, Huseyin	Anadolu Univ.	
17:10-17:30	TuC05.3	
<i>Bi-Orthonormal Basis Functions for Improved Frequency-Domain System Identification</i> , pp. 3451-3456.		
van Herpen, Robbert Oomen, Tom Bosgra, Okko H.	Eindhoven Univ. of Tech. Eindhoven Univ. of Tech. Delft Univ. of Tech.	
17:30-17:50	TuC05.4	
<i>Asymptotic Analysis of Vector ARMA Identification</i> , pp. 3457-3462.		
Li, Quan Scruggs, Jeff	Duke Univ. Univ. of Michigan	
17:50-18:10	TuC05.5	
<i>Filtered-Error-Based Control of a Class of Nonlinear Systems with Nonsmooth Nonlinearities</i> , pp. 3463-3468.		
Jin, Ying Fu, Jun Zhang, Lixian Li, Zhijun	Concordia Univ. MIT Harbin Inst. of Tech. Shanghai Jiao Tong Univ.	

18:10-18:30	TuC05.6	
<i>An Algorithm for Fast Constrained Nuclear Norm Minimization and Applications to Systems Identification</i> , pp. 3469-3475.		
Ayazoglu, Mustafa Sznajer, Mario	Northeastern Univ. Northeastern Univ.	
TuC06	Plumeria 3	
Uncertain Systems III (Regular Session)		
Chair: Jones, Peter B. Co-Chair: Fischer, Nicholas	MIT Lincoln Lab. Univ. of Florida	
16:30-16:50	TuC06.1	
<i>Dynamical Trajectory Replanning for Uncertain Environments</i> , pp. 3476-3483.		
Revzen, Shai Ilhan, Berkay Deniz Koditschek, Daniel E.	Univ. of Michigan Univ. of Pennsylvania Univ. of Pennsylvania	
16:50-17:10	TuC06.2	
<i>Iterative Ensemble Control Synthesis for Bilinear Systems</i> , pp. 3484-3489.		
Zlotnik, Anatoly Li, Jr-Shin	Washington Univ. in St. Louis Washington Univ. in St. Louis	
17:10-17:30	TuC06.3	
<i>A Matrix Sign Function Framework for Robust Stability Analysis and Parameter-Dependent Lyapunov and Riccati Equalities</i> , pp. 3490-3495.		
Guerra, Jérémie Yagoubi, Mohamed Chevrel, Philippe	Ec. des Mines de Nantes (IRCCyN) Ec. des Mines de Nantes (IRCCyN) Ec. des Mines de Nantes (IRCCyN)	
17:30-17:50	TuC06.4	
<i>Bayesian Filtering without an Observation Model</i> , pp. 3496-3501.		
Jones, Peter B. Mitter, Sanjoy K. Saligrama, Venkatesh	MIT Lincoln Lab. Massachusetts Inst. of Tech. Boston Univ.	
17:50-18:10	TuC06.5	
<i>RISE-Based Control of an Uncertain Nonlinear System with Time-Varying State Delays</i> , pp. 3502-3507.		
Fischer, Nicholas Kamalapurkar, Rushikesh Sharma, Nitin Dixon, Warren E.	Univ. of Florida Univ. of Florida Univ. of Alberta Univ. of Florida	
18:10-18:30	TuC06.6	
<i>On Mixed-Integer Random Convex Programs</i> , pp. 3508-3513.		
Calafiore, Giuseppe Lyons, Daniel Fagiano, Lorenzo	Pol. di Torino Karlsruhe Inst. of Tech. Pol. di Torino/Univ. California at Santa Barbara	
TuC07	Maile 1	
Distributed Parameter Systems IV (Regular Session)		
Chair: Polis, Michael P. Co-Chair: Gao, Huijun	Oakland Univ. Harbin Inst. of Tech.	
16:30-16:50	TuC07.1	
<i>Robust Regulation of Distributed Parameter Systems with Infinite-Dimensional Exosystems (I)</i> , pp. 3514-3519.		
Hamalainen, Timo Pohjolainen, Seppo	Tampere Univ. of Tech. Tampere Univ. of Tech.	
16:50-17:10	TuC07.2	
<i>Filtering and Identification of Stochastic Diffusion Systems with Unknown Boundary Conditions</i> , pp. 3520-3525.		
Aihara, Shin Ichi Bagchi, Arunabha	Tokyo Univ. of Science, Suwa Univ. of Twente	
17:10-17:30	TuC07.3	
<i>H∞ Filtering for 2-D FM Systems: A Finite Frequency Approach</i> , pp. 3526-3530.		
Li, Xianwei Gao, Huijun Karimi, Hamid Reza	Harbin Inst. of Tech. Harbin Inst. of Tech. Univ. of Agder	
17:30-17:50	TuC07.4	
<i>Probabilistic Formulation of Estimation Problems for a Class of Hamilton-Jacobi Equations</i> , pp. 3531-3537.		
Hofleitner, Aude Claudel, Christian Bayen, Alexandre M.	UC Berkeley UC Berkeley UC Berkeley	
17:50-18:10	TuC07.5	
<i>Flatness-Based Trajectory Planning for Semilinear Parabolic PDEs</i> , pp. 3538-3543.		
Schörkhuber, Birgit Meurer, Thomas Jungel, Ansgar	Vienna Univ. of Tech. Vienna Univ. of Tech. Vienna Univ. of Tech.	
TuC08	Maile 2	
Feedback Linearization (Regular Session)		
Chair: Muellhaupt, Philippe Co-Chair: Sekiguchi, Kazuma	Ec. Pol. Fed. de Lausanne Tokyo Inst. of Tech.	
16:30-16:50	TuC08.1	
<i>A Continuous Extension of the LuGre Friction Model with Application to the Control of a Pneumatic Servo Positioner</i> , pp. 3544-3550.		
Sobczyk, Mario Roland Perondi, Eduardo Andre Cunha, Mauro A.B.	Univ. Federal do Rio grande do Sul Univ. Federal do Rio grande do Sul CEFET-RS	
16:50-17:10	TuC08.2	
<i>Path Following for a Quadrotor Using Dynamic Extension and Transverse Feedback Linearization</i> , pp. 3551-3556.		
Akhtar, Adeel Waslander, Steven L. Nielsen, Christopher	Univ. of Waterloo Univ. of Waterloo Univ. of Waterloo	
17:10-17:30	TuC08.3	
<i>Change of Controller Based on Partial Feedback Linearization with Time-Varying Function</i> , pp. 3557-3563.		
Sekiguchi, Kazuma Sampei, Mitsaji	Tokyo Inst. of Tech. Tokyo Inst. of Tech.	

17:30-17:50	TuC08.4	
<i>Robust Stabilization of an Airlaunch System after Launching Phase</i> , pp. 3564-3569.		
Nguyen, Van Cuong	Univ. d'Evry Val d'Essonne	
Marino, Riccardo	Univ. di Roma Tor Vergata	
Damm, Gilney	Univ. d'Evry	
17:50-18:10	TuC08.5	
<i>Application of Legendrian Foliations in Differential Flatness Problems</i> , pp. 3570-3575.		
Graf, Basile	Ec. Pol. Fédérale de Lausanne	
Muellhaupt, Philippe	Ec. Pol. Fédérale de Lausanne	
18:10-18:30	TuC08.6	
<i>An Inner Convex Approximation Algorithm for BMI Optimization and Applications in Control</i> , pp. 3576-3581.		
Tran Dinh, Quoc	Katholieke Univ. Leuven	
Michiels, Wim	Katholieke Univ. Leuven	
Gros, Sébastien	Katholieke Univ. Leuven	
Diehl, Moritz	Katholieke Univ. Leuven	
TuC09	Maile 3	
Control Theory in Synthetic Biology (Invited Session)		
Chair: Oyarzun, Diego A.	Imperial Coll. London	
Co-Chair: STAN, Guy-Bart Vincent	Imperial Coll. London	
Organizer: Oyarzun, Diego A.	Imperial Coll. London	
Organizer: STAN, Guy-Bart Vincent	Imperial Coll. London	
16:30-16:50	TuC09.1	
<i>Computer Control of Gene Expression: Robust Setpoint Tracking of Protein Mean and Variance Using Integral Feedback</i> (I), pp. 3582-3588.		
Briat, Corentin	ETH Zürich	
Khammash, Mustafa H.	ETH Zurich	
16:50-17:10	TuC09.2	
<i>Characterization of a Biomolecular Fuel Delivery Device under Load</i> (I), pp. 3589-3594.		
Bishop, Joshua	Univ. of Washington	
Klavins, Eric	Univ. of Washington	
17:10-17:30	TuC09.3	
<i>Retroactivity to the Input in Complex Gene Transcription Networks</i> (I), pp. 3595-3601.		
Gyorgy, Andras	Massachusetts Inst. of Tech.	
Del Vecchio, Domitilla	Massachusetts Inst. of Tech.	
17:30-17:50	TuC09.4	
<i>On the Role of Ultrasensitivity in Biomolecular Control Systems</i> (I), pp. 3602-3607.		
Montefusco, Francesco	Univ. of Exeter	
Steinacher, Arno	Univ. of Exeter	
Akman, Ozgur Ekim	Univ. of Exeter	
Bates, Declan G.	Univ. of Exeter	
Soyer, Orkun S	Univ. of Exeter	
17:50-18:10	TuC09.5	
<i>Design Constraints in an Operon Circuit for Engineered Control of Metabolic Networks</i> (I), pp. 3608-3613.		
Oyarzun, Diego A.	Imperial Coll. London	
Stan, Guy-Bart Vincent	Imperial Coll. London	
18:10-18:30	TuC09.6	
<i>A Loop Shaping Approach for Designing Biological Circuits</i> (I), pp. 3614-3619.		
Dolan, James	Univ. of Oxford	
Anderson, James	Univ. of Oxford	
Papachristodoulou, Antonis	Univ. of Oxford	
TuC10	Pikake 1	
New Directions in Control Design for Quantum Systems II (Invited Session)		
Chair: James, Matthew R.	Australian National Univ.	
Co-Chair: Mason, Paolo	CNRS, Lab. des Signaux et Systèmes, Supélec	
Organizer: Caponigro, Marco	Rutgers Univ.	
Organizer: James, Matthew R.	Australian National Univ.	
Organizer: Long, Ruixing	Princeton Univ.	
Organizer: Mason, Paolo	CNRS, Lab. des Signaux et Systèmes, Supélec	
16:30-16:50	TuC10.1	
<i>Environment-Assisted and Feedback-Assisted Stabilization of Quantum Stochastic Evolutions</i> (I), pp. 3620-3625.		
Ticozzi, Francesco	Univ. di Padova	
Nishio, Kazunori	Sumitomo Life Insurance Company	
Altafini, Claudio	SISSA International School For Advanced Studies	
16:50-17:10	TuC10.2	
<i>Time Minimal Trajectories for Two-Level Quantum Systems with Two Bounded Controls</i> (I), pp. 3626-3631.		
Boscain, Ugo V.	CNRS	
Long, Ruixing	Princeton Univ.	
17:10-17:30	TuC10.3	
<i>LQG Measurement-Feedback Control of Distributed Entanglement Generation between Continuous-Mode Gaussian Fields</i> (I), pp. 3632-3639.		
Nurdin, Hendra Ishwara	Univ. of New South Wales	
Yamamoto, Naoki	Keio Univ.	
17:30-17:50	TuC10.4	
<i>Explicit Control Laws for the Periodic Motion Planning of Controllable Driftless Systems on SU(n)</i> (I), pp. 3640-3645.		
Silveira, Hector Bessa	Federal Univ. of Santa Catarina	
Pereira da Silva, Paulo Sergio	Univ. de Sao Paulo	
Rouchon, Pierre	Mines ParisTech	
17:50-18:10	TuC10.5	
<i>Strong Measurement and Quantum Feedback for Persistent Rabi Oscillations in Circuit QED Experiments</i> (I), pp. 3646-3651.		
Mirrahimi, Mazyar	INRIA Paris-Rocquencourt	
Huard, Benjamin	Ec. Normale Supérieure, CNRS	
Devoret, Michel	Yale Univ.	
18:10-18:30	TuC10.6	
<i>Time-Optimal Adiabatic-Like Expansion of Bose-Einstein Condensates</i> (I), pp. 3652-3657.		
Stefanatos, Dionisis		
Li, Jr-Shin	Washington Univ. in St. Louis	

TuC11	Pikake 2	
Information Based Real-Time-Energy-Management in Networks of Smart Appliances (Invited Session)		
Chair: Caramanis, Michael C.	Boston Univ.	
Co-Chair: Baillieul, John	Boston Univ.	
Organizer: Zhang, Bowen	Boston Univ.	
Organizer: Caramanis, Michael C.	Boston Univ.	
Organizer: Baillieul, John	Boston Univ.	
16:30-16:50	TuC11.1	
<i>A Packetized Direct Load Control Mechanism for Demand Side Management (I), pp. 3658-3665.</i>		
Zhang, Bowen	Boston Univ.	
Baillieul, John	Boston Univ.	
16:50-17:10	TuC11.2	
<i>Grid Integration of Distributed Renewables through Coordinated Demand Response (I), pp. 3666-3671.</i>		
Alizadeh, Mahnoosh	UC Davis	
Chang, Tsung-Hui	National Taiwan Univ. of Science and Tech.	
Scaglione, Anna	UC Davis	
17:10-17:30	TuC11.3	
<i>Branch Flow Model: Relaxations and Convexification (I), pp. 3672-3679.</i>		
Farivar, Masoud	California Inst. of Tech.	
Low, Steven	California Inst. of Tech.	
17:30-17:50	TuC11.4	
<i>Large Scale Real-Time Bidding in the Smart Grid: A Mean Field Framework (I), pp. 3680-3687.</i>		
Kizilkale, Arman C.	McGill Univ.	
Mannor, Shie	Technion	
Caines, Peter E.	McGill Univ.	
17:50-18:10	TuC11.5	
<i>Decentralized Optimal Dispatch of Distributed Energy Resources (I), pp. 3688-3693.</i>		
Dominguez-Garcia, Alejandro	Univ. of Illinois at Urbana-Champaign	
Cady, Stanton	Univ. of Illinois at Urbana-Champaign	
Hadjicostis, Christoforos	Univ. of Cyprus	
18:10-18:30	TuC11.6	
<i>Provision of Regulation Service Reserves by Flexible Distributed Loads (I), pp. 3694-3700.</i>		
Caramanis, Michael C.	Boston Univ.	
Paschalidis, Ioannis	Boston Univ.	
Cassandras, Christos G.	Boston Univ.	
Bilgin, Enes	Boston Univ.	
Ntakou, Elli	Boston Univ.	
TuC12	Pikake 3	
Animal-Inspired Flight Control (Invited Session)		
Chair: Sebesta, Kenneth	Boston Univ.	
Co-Chair: Baillieul, John	Boston Univ.	
Organizer: Sebesta, Kenneth	Boston Univ.	
Organizer: Baillieul, John	Boston Univ.	
16:30-16:50	TuC12.1	
<i>A Ho∞ Loopshaping Approach for Autonomous Bio-Inspired Visual Navigation in Three-Dimensional Urban Environments (I), pp. 3701-3706.</i>		
Keshavan, Jishnu	Univ. of Maryland	
Humbert, J. Sean	Univ. of Maryland	
16:50-17:10	TuC12.2	
<i>Control Synthesis and Verification for a Perching UAV Using LQR-Trees (I), pp. 3707-3714.</i>		
Moore, Joseph	Massachusetts Inst. of Tech.	
Tedrake, Russ	Massachusetts Inst. of Tech.	
17:10-17:30	TuC12.3	
<i>Autostabilizing Airframe Articulation: Animal Inspired Air Vehicle Control (I), pp. 3715-3720.</i>		
Dyhr, Jonathan	Univ. of Washington	
Cowan, Noah	Johns Hopkins Univ.	
Colmenares, David	Univ. of Washington	
Morgansen, Kristi A.	Univ. of Washington	
Daniel, Thomas	Univ. of Washington	
17:30-17:50	TuC12.4	
<i>A Task-Level Model for Optomotor Yaw Regulation in Drosophila Melanogaster: A Frequency-Domain System Identification Approach (I), pp. 3721-3726.</i>		
Roth, Eatai	Univ. of Washington	
Reiser, Michael B.	Caltech	
Dickinson, Michael H.	Caltech	
Cowan, Noah	Johns Hopkins Univ.	
17:50-18:10	TuC12.5	
<i>Animal-Inspired Agile Flight Using Optical Flow Sensing (I), pp. 3727-3734.</i>		
Sebesta, Kenneth	Boston Univ.	
Baillieul, John	Boston Univ.	
18:10-18:30	TuC12.6	
<i>High-Speed Motion with Limited Sensing Range in a Poisson Forest (I), pp. 3735-3740.</i>		
Karaman, Sertac	Massachusetts Inst. of Tech.	
Frazzoli, Emilio	Massachusetts Inst. of Tech.	
TuC13	Ilima 1	
Advances in Powertrain Control (Invited Session)		
Chair: Mohammadpour, Javad	Univ. of Michigan	
Co-Chair: Di Cairano, Stefano	Mitsubishi Electric Res. Lab.	
Organizer: Karnik, Amey	IIT Gandhinagar	
Organizer: Mohammadpour, Javad	Univ. of Georgia	
Organizer: Di Cairano, Stefano	Mitsubishi Electric Res. Lab.	
16:30-16:50	TuC13.1	
<i>Investigation of Time-Varying Internal Model Based Control for Camless Engine Valve Actuation (I), pp. 3741-3746.</i>		
Gillella, Pradeep Kumar	Univ. of Minnesota, Twin Cities	
Song, Xingyong	General Motors Res. Center	
Sun, Zongxuan	Univ. of Minnesota	

16:50-17:10	TuC13.2	16:50-17:10	TuC14.2	
<i>Reducing Cyclic Dispersion in Autoignition Combustion by Controlling Fuel Injection Timing (I)</i> , pp. 3747-3752.				
Hellström, Erik	Univ. of Michigan	Brunner, Florian David	Univ. of Stuttgart	
Stefanopoulou, Anna G.	Univ. of Michigan	Dürr, Hans-Bernd	Univ. of Stuttgart	
Jiang, Li	Robert Bosch LLC	Ebenbauer, Christian	Univ. of Stuttgart	
17:10-17:30	TuC13.3	17:10-17:30	TuC14.3	
<i>MPC-Based Control of Engine Deceleration with Open Torque Converter (I)</i> , pp. 3753-3758.				
Di Cairano, Stefano	Mitsubishi Electric Res. Lab.	Pantoja, Andrés	Univ. de Nariño	
Doering, Jeff	Ford Motor Company	Quijano, Nicanor	Univ. de los Andes	
Kolmanovsky, Ilya V.	Univ. of Michigan			
Hrovat, Davor	Ford Motor Company			
17:30-17:50	TuC13.4	17:30-17:50	TuC14.4	
<i>PDE-Based Analysis and Control of the Oxygen Storage Level in Three-Way Catalytic Converters (I)</i> , pp. 3759-3764.				
Bekiaris-Liberis, Nikolaos	Univ. of California, San Diego	Hunnekens, Bram	Eindhoven Univ. of Tech.	
Jankovic, Mrdjan	Ford Res. & Advanced Engineering	Haring, Mark	Norwegian Univ. of Science and Tech.	
Krstic, Miroslav	Univ. of California, San Diego	Van De Wouw, Nathan	Eindhoven Univ. of Tech.	
		Nijmeijer, Hendrik	Eindhoven Univ. of Tech.	
17:50-18:10	TuC13.5	17:50-18:10	TuC14.5	
<i>Direct Data-Driven Control of Internal Combustion Engine Test Benches Using Closed-Loop Experiments</i> , pp. 3765-3770.				
Passenbrunner, Thomas Ernst	Johannes Kepler Univ. Linz	Zhang, Zhenliang	Colorado State Univ.	
Formentin, Simone	Pol. di Milano	Chong, Edwin K. P.	Colorado State Univ.	
Savarese, Sergio M.	Pol. Di Milano	Pezeshki, Ali	Colorado State Univ.	
Del Re, Luigi	Johannes Kepler Univ. Linz	Moran, Bill	Univ. of Melbourne	
18:10-18:30	TuC13.6	Howard, Stephen David	Defence Science & Tech. Organisation	
<i>Predictive Control for High-EGR SI Engines without Misfire Via Flow-Based Design</i> , pp. 3771-3776.				
Jimbo, Tomohiko	Toyota Central R&D Lab. Inc.	18:10-18:30	TuC14.6	
Tanaka, Satoru	Toyota Motor Corp.	Zelazo, Daniel	Univ. of Stuttgart	
Sata, Kota	Toyota Motor Corp.	Schuler, Simone	Univ. of Stuttgart	
Hibino, Ryouichi	Toyota Central R&D Lab. Inc.	Allgower, Frank	Univ. of Stuttgart	
TuC14		TUIMA 3		
Optimization III (Regular Session)				
Chair: Chong, Edwin K. P.	Colorado State Univ.	Chair: Krener, Arthur J	Naval Postgraduate School	
Co-Chair: Quijano, Nicanor	Univ. de los Andes	Co-Chair: Schmid, Robert	Univ. of Melbourne	
16:30-16:50	TuC14.1	16:30-16:50	TuC15.1	
<i>Exact Convex Formulations of Network-Oriented Optimal Operator Placement</i> , pp. 3777-3782.				
Carabelli, Ben William	Univ. of Stuttgart	Krener, Arthur J	Naval Postgraduate School	
Benzing, Andreas	Univ. of Stuttgart	16:50-17:10	TuC15.2	
Seyboth, Georg Sebastian	Univ. of Stuttgart	<i>Filtering Boundary Value Continuous Time Invariant Linear Systems</i> , pp. 3814-3820.		
Blind, Rainer	Univ. of Stuttgart	Layek, Ritwik	Texas A&M Univ.	
Bürger, Mathias	Univ. of Stuttgart	Nounou, Hazem	Texas A&M Univ. at Qatar	
Dürr, Frank	Univ. of Stuttgart	Nounou, Mohamed	Texas A&M Univ. at Qatar	
Koldehofe, Boris	Univ. of Stuttgart	Datta, Aniruddha	Texas A&M Univ.	
Rothermel, Kurt	Univ. of Stuttgart	Bhattacharyya, Shankar P.	Texas A&M Univ.	
Allgower, Frank	Univ. of Stuttgart			

17:10-17:30	TuC15.3
<i>Optimal Trajectory Generation for Linear Systems Based on Double Generating Functions</i> , pp. 3827-3832.	
HAO, ZHIWEI Fujimoto, Kenji Hayakawa, Yoshikazu	Nagoya Univ. Kyoto Univ. Nagoya Univ.
17:30-17:50	TuC15.4
<i>Nonovershooting and Nonundershooting Linear Multivariable State-Feedback Tracking Controllers for Discrete-Time Systems</i> , pp. 3833-3838.	
Schmid, Robert	Univ. of Melbourne
17:50-18:10	TuC15.5
<i>Optimal Right Inverse of Flat Rectangular MIMO System with Individual Channel Power Constraints</i> , pp. 3839-3844.	
Li, Shengpeng Zhang, Jingxin	Monash Univ. Monash Univ.
18:10-18:30	TuC15.6
<i>Realization of a Special Class of Admittances with One Damper and One Inerter</i> , pp. 3845-3850.	
Chen, Michael Z. Q. Wang, Kai Zou, Yun Lam, James	Univ. of Hong Kong Nanjing Univ. of Science and Tech. Nanjing Univ. of Science and Tech. Univ. of Hong Kong
TuC16	Haleakala Ballroom 3
Fundamentals of Economic Model Predictive Control (Tutorial Session)	
Chair: Rawlings, James B. Co-Chair: Angeli, David Organizer: Rawlings, James B. Organizer: Angeli, David	Univ. of Wisconsin, Madison Imperial Coll. Univ. of Wisconsin, Madison Imperial Coll.
16:30-16:35	TuC16.1
<i>Fundamentals of Economic Model Predictive Control</i> (I), pp. 3851-3861.	
Rawlings, James B. Angeli, David Bates, Cuyler	Univ. of Wisconsin, Madison Imperial Coll. Univ. of Wisconsin, Madison
16:35-17:10	TuC16.2
<i>Introduction to Economic MPC: Average Performance, Stability, and Terminal Penalties</i> (I)*. 	
Rawlings, James B.	Univ. of Wisconsin-Madison
17:10-18:10	TuC16.3
<i>Dissipativity, Periodic Terminal Constraints, and Average Constraints in Economic MPC</i> (I)*. 	
Angeli, David	Imperial Coll.
18:10-18:30	TuC16.4
<i>Conclusions and Open Research Issues in Economic MPC</i> (I)*. 	
Rawlings, James B.	Univ. of Wisconsin, Madison
TuC17	Haleakala Ballroom 5
Nonlinear Time-Delay Systems: Theory and Applications (Invited Session)	
Chair: Califano, Claudia Co-Chair: Moog, Claude Organizer: Califano, Claudia Organizer: Moog, Claude	Univ. di Roma CNRS Univ. di Roma CNRS

16:30-16:50	TuC17.1
<i>Canonical Forms of Time-Delay Systems</i> (I), pp. 3862-3867.	
Califano, Claudia Moog, Claude	Univ. di Roma CNRS
16:50-17:10	TuC17.2
<i>Adaptive Stabilization of LTI Systems with Distributed Input Delay</i> (I), pp. 3868-3873.	
Bekiaris-Liberis, Nikolaos Krstic, Miroslav	Univ. of California, San Diego Univ. of California, San Diego
17:10-17:30	TuC17.3
<i>Finite Spectrum Assignment for Nonlinear Time-Delay Systems Using Synchronization-Based Predictor</i> (I), pp. 3874-3879.	
Oguchi, Toshiki	Tokyo Metro. Univ.
17:30-17:50	TuC17.4
<i>On the Input-To-State Practical Stabilization of Nonlinear Neutral Systems</i> (I), pp. 3880-3885.	
Pepe, Pierdomenico	Univ. of L' Aquila
17:50-18:10	TuC17.5
<i>Network-Based Control Via a Novel Analysis of Hybrid Systems with Time-Varying Delays</i> (I), pp. 3886-3891.	
Liu, Kun Fridman, Emilia Hetel, Laurentiu	Tel Aviv Univ. Tel-Aviv Univ. EC-LILLE
18:10-18:30	TuC17.6
<i>Stabilization for Feedforward Systems with Delay in the Input</i> , pp. 3892-3897.	
Mazenc, Frederic Malisoff, Michael	EPI INRIA DISCO Louisiana State Univ.

TuC17	Haleakala Ballroom 5
Nonlinear Time-Delay Systems: Theory and Applications (Invited Session)	
Chair: Califano, Claudia Co-Chair: Moog, Claude Organizer: Califano, Claudia Organizer: Moog, Claude	Univ. di Roma CNRS Univ. di Roma CNRS

Technical Program for Wednesday December 12, 2012

WeSP1	Haleakala Ballroom 2-3
Cyborg Cells: Feedback Control of Cell Populations (Semiplenary Session)	
Chair: Valcher, Maria Elena	Univ. di Padova
Co-Chair: Teel, Andrew R.	Univ. of California, Santa Barbara
08:30-09:30	WeSP1.1
<i>Cyborg Cells: Feedback Control of Cell Populations*. PDE</i>	
Khammash, Mustafa H.	ETH Zurich
WeSP2	Haleakala Ballroom 4-5
Taming the Upcoming Data Deluge: A Systems and Control Perspective (Semiplenary Session)	
Chair: Farrell, Jay A.	Univ. of California, Riverside
Co-Chair: Parisini, Thomas	Imperial Coll. & Univ. of Trieste
08:30-09:30	WeSP2.1
<i>Taming the Upcoming Data Deluge: A Systems and Control Perspective*. PDE</i>	
Sznaier, Mario	Northeastern Univ.
WeA01	Hibiscus 1
Network Analysis and Control (Regular Session)	
Chair: Roy, Sandip	Washington State Univ.
Co-Chair: Wang, Yue	Clemson Univ.
10:00-10:20	WeA01.1
<i>On the Propagation of Instability in Interconnected Networks</i> , pp. 3898-3903.	
Koh, Amy	Univ. of Cambridge
Vinnicombe, Glenn	Univ. of Cambridge
10:20-10:40	WeA01.2
<i>A Novel Self-Triggered Sampling Scheme in Networked Control Systems</i> , pp. 3904-3909.	
Peng, Chen	Nanjing Normal Univ.
Han, Qing-Long	Central Queensland Univ.
10:40-11:00	WeA01.3
<i>Thermodynamics-Based Network Systems Control by Thermal Analogy</i> , pp. 3910-3915.	
Berg, Jordan M.	Texas Tech. Univ.
Maithripala, D. H. S.	Univ. of Peradeniya
Hui, Qing	Texas Tech. Univ.
Haddad, Wassim M.	Georgia Inst. of Tech.
11:00-11:20	WeA01.4
<i>Characterization of Security Levels for the Dynamics of Autonomous Vehicle Networks</i> , pp. 3916-3921.	
Xue, Mengran	Univ. of Michigan
Roy, Sandip	Washington State Univ.
11:20-11:40	WeA01.5
<i>Stability of a General Class of Distributed Algorithms for Power Control in Time-Dependent Wireless Networks</i> , pp. 3922-3927.	
Devane, Eoin	Univ. of Cambridge
Lestas, Ioannis	Univ. of Cambridge

11:40-12:00	WeA01.6
<i>Synchronization of Coupled Nonlinear Oscillators Via Regional Pole Placement Technique</i> , pp. 3928-3935.	
Takaba, Kiyotsugu	Ritsumeikan Univ.
Hibi, Atsuhiro	Kyoto Univ.
12:00-12:20	
<i>Optimal Balanced Coordinated Network Resource Allocation Using Swarm Optimization</i> , pp. 3936-3941.	
Hui, Qing	Texas Tech. Univ.
Zhang, Haopeng	Texas Tech. Univ.
WeA02	Hibiscus 2
Iterative Learning Control I (Regular Session)	
Chair: Del Re, Luigi	Johannes Kepler Univ. Linz
Co-Chair: Hoelzle, David	Univ. of California, Los Angeles
10:00-10:20	WeA02.1
<i>Iterative Learning Control for Systems with Nonparametric Uncertainties under Alignment Condition</i> , pp. 3942-3947.	
Jin, Xu	National Univ. of Singapore
Huang, Deqing	National Univ. of Singapore
Xu, Jian-Xin	National Univ. of Singapore
10:20-10:40	WeA02.2
<i>Computational Fluid Dynamics Based Iterative Learning Control of Peak Loads in Wind Turbines (I)</i> , pp. 3948-3953.	
Tutty, Owen	Univ. of Southampton
Blackwell, Mark William	Univ. of Southampton
Rogers, Eric	Univ. of Southampton
Sandberg, Richard David	Univ. of Southampton
10:40-11:00	WeA02.3
<i>Intermediate Point Norm Optimal Iterative Learning Control</i> , pp. 3954-3959.	
Owens, David H.	Univ. of Sheffield
Freeman, Christopher T.	Univ. of Southampton
Dinh, Thanh	Univ. of Southampton
11:00-11:20	WeA02.4
<i>Decentralized Learning for Multi-Player Multi-Armed Bandits</i> , pp. 3960-3965.	
Kalathil, Dileep	Univ. of Southern California
Jain, Rahul	Univ. of Southern California
Nayyar, Naumaan	Univ. of Southern California
11:20-11:40	WeA02.5
<i>A Norm Optimal Iterative Learning Control Based Train Trajectory Tracking Approach</i> , pp. 3966-3971.	
Sun, Heqing	Beijing Jiaotong Univ.
Hou, Zhongsheng	Beijing Jiaotong Univ.
Li, Dayou	Univ. Bedfordshire
11:40-12:00	WeA02.6
<i>On the Time Optimal Control for Nonlinear Saturated Systems</i> , pp. 3972-3977.	
Trogmann, Hannes	Johannes Kepler Univ. Linz
Del Re, Luigi	Johannes Kepler Univ. Linz

12:00-12:20	WeA02.7	Plumeria 1
<i>Flexible Iterative Learning Control Using a Library Based Interpolation Scheme</i> , pp. 3978-3984.		
Hoelzle, David	Univ. of California, Los Angeles	
Barton, Kira	Univ. of Michigan, Ann Arbor	
WeA03	Hibiscus 3	
Cooperative Control I (Regular Session)		
Chair: Ajorlou, Amir	Concordia Univ.	
Co-Chair: Yu, Jingjin	Univ. of Illinois, Urbana-Champaign	
10:00-10:20	WeA03.1	WeA04.1
<i>On Stability and Dissipativity of Stochastic Nonlinear Systems</i> , pp. 4029-4034.		
Wu, Zhaojing	Yantai Univ.	
Shi, Peng	Univ. of Glamorgan	
Karimi, Hamid Reza	Univ. of Agder	
10:20-10:40	WeA04.2	
<i>Optimal Kalman Gains for Combined Stochastic and Set-Membership State Estimation</i> , pp. 4035-4040.		
Noack, Benjamin	Karlsruhe Inst. of Tech.	
Pfaff, Florian	Karlsruhe Inst. of Tech.	
Hanebeck, Uwe D.	Karlsruhe Inst. of Tech.	
10:40-11:00	WeA04.3	
<i>Stability Analysis for Uncertain Linear Systems with Random Parameters</i> , pp. 4041-4046.		
Li, Xiaoyang	National Univ. of Singapore	
Lin, Hai	Univ. of Notre Dame	
Lian, Jie	Dalian Univ. of Tech.	
Chen, Ben M.	National Univ. of Singapore	
11:00-11:20	WeA04.4	
<i>Robust Controllability of Interval Fractional Order Linear Time Invariant Stochastic Systems</i> , pp. 4047-4050.		
Zeng, Caibin	South China Univ. of Tech.	
Chen, YangQuan	Univ. of California, Merced	
Yang, Qigui	South China Univ. of Tech.	
11:20-11:40	WeA04.5	
<i>Stochastic Difference Inclusions: Results on Recurrence and Asymptotic Stability in Probability</i> , pp. 4051-4056.		
Teel, Andrew R.	Univ. of California, Santa Barbara	
Hespanha, Joao P.	Univ. of California, Santa Barbara	
Subbaraman, Anantharaman	Univ. of California, Santa Barbara	
11:40-12:00	WeA04.6	
<i>Coordinated Vehicle Platoon Control: Weighted and Constrained Consensus and Communication Network Topologies (I)</i> , pp. 4057-4062.		
Wang, Le Yi	Wayne State Univ.	
Syed, Ali	Wayne State Univ.	
Yin, George	Wayne State Univ.	
Pandya, Abhilash	Wayne State Univ.	
Zhang, Hongwei	Wayne State Univ.	
12:00-12:20	WeA04.7	
<i>Multivariable Feedback Particle Filter</i> , pp. 4063-4070.		
Yang, Tao	Univ. of Illinois at Urbana-Champaign	
Laugesen, Richard S.	Univ. of Illinois, Urbana-Champaign	
Mehta, Prashant G.	Univ. of Illinois, Urbana-Champaign	
Meyn, Sean	Univ. of Florida	

WeA05	Plumeria 2
Estimation Problems I (Regular Session)	
Chair: Willett, Peter K.	Univ. of Connecticut
Co-Chair: Speyer, Jason L.	Univ. of California at Los Angeles
10:00-10:20	WeA05.1
<i>An Observer for the Synchronization of Chaotic Liouvillian Systems: A Real-Time Application to Chua's Oscillator, pp. 4071-4076.</i>	
Martinez-Guerra, Rafael	CINVESTAV-IPN
Mata, Juan Luis	IPN
10:20-10:40	WeA05.2
<i>UKF-Based Estimation of Indicated Torque for IC Engines Utilizing Nonlinear Two-Inertia Model, pp. 4077-4082.</i>	
Itoh, Yuzuru	Tokyo Denki Univ.
Higashi, Kouji	Tokyo Denki Univ.
Iwase, Masami	Tokyo Denki Univ.
10:40-11:00	WeA05.3
<i>Fusion Estimation for Two Sensors with Nonuniform Estimation Rates, pp. 4083-4088.</i>	
zhang, wenan	Zhejiang Univ. of Tech.
Liu, Steven	Univ. of Kaiserslautern
Chen, Michael Z. Q.	Univ. of Hong Kong
Yu, Li	Zhejiang Univ. of Tech.
11:00-11:20	WeA05.4
<i>Bias Elimination in Tracking with Converted Position and Doppler Measurements, pp. 4089-4094.</i>	
Bordonaro, Steven	Naval Undersea Warfare Center
Willett, Peter K.	Univ. of Connecticut
Bar-Shalom, Yaakov	Univ. of Connecticut
11:20-11:40	WeA05.5
<i>The High-Degree Cubature Kalman Filter, pp. 4095-4100.</i>	
Jia, Bin	Mississippi State Univ.
Xin, Ming	Mississippi State Univ.
Cheng, Yang	Mississippi State Univ.
11:40-12:00	WeA05.6
<i>Nonsmooth Regression and State Estimation Using Piecewise Quadratic Log-Concave Densities (I), pp. 4101-4106.</i>	
Aravkin, Aleksandr Y.	Univ. of British Columbia
Burke, James V.	Univ. of Washington
Pillonetto, Gianluigi	Univ. of Padova
12:00-12:20	WeA05.7
<i>The Two-State Estimator for Linear Systems with Additive Measurement and Process Cauchy Noise, pp. 4107-4114.</i>	
Speyer, Jason L.	Univ. of California, Los Angeles
Idan, Moshe	Israel Institute of Tech.
Fernandez, Javier	Univ. of California, Los Angeles
WeA06	Plumeria 3
Adaptive Control I (Regular Session)	
Chair: Ulrich, Steve	Carleton Univ.
Co-Chair: Lin, Yan	Beijing Univ. of Aeronautics and Astronautics
10:00-10:20	WeA06.1
<i>Adaptive Output Tracking of MIMO Nonlinear Systems with Unknown Non-Symmetric Dead-Zone, pp. 4115-4120.</i>	
Wang, Chenliang	Beijing Univ. of Aeronautics and Astronautics
Lin, Yan	Beijing Univ. of Aeronautics and Astronautics
10:20-10:40	WeA06.2
<i>Adaptive Switching Controllers for Tracking with Hybrid Communication Protocols, pp. 4121-4126.</i>	
Voit, Harald	TU Munich
Annaswamy, Anuradha	Massachusetts Inst. of Tech.
Schneider, Reinhard	TU Munich
Goswami, Dip	TU Munich
Chakraborty, Samarjit	TU Munich
10:40-11:00	WeA06.3
<i>Optimal Adaptive Control of Nonlinear Continuous-Time Systems in Strict Feedback Form with Unknown Internal Dynamics, pp. 4127-4132.</i>	
Zargarzadeh, Hassan	Missouri Univ. of Science & Tech.
Dierks, Travis	DRS Sustainment Systems, Inc.
Jagannathan, Sarangapani	Missouri Univ. of Science & Tech.
11:00-11:20	WeA06.4
<i>Adaptive Second Order Sliding Mode Control of PEM Fuel Cell Air Feed System, pp. 4133-4138.</i>	
Matraji, Imad	UTBM
Liu, Jianxing	UTBM
Laghrouche, Salah	UTBM
Wack, Maxime	UTBM
11:20-11:40	WeA06.5
<i>On a New Class of Direct Adaptive Output Feedback Controllers for Nonlinear Square Systems, pp. 4139-4144.</i>	
Ulrich, Steve	Carleton Univ.
Sasiadek, Jurek Z	Carleton Univ.
Barkana, Itzhak	BARKANA Consulting
11:40-12:00	WeA06.6
<i>Nonlinear Adaptive and Tracking Control of a Pneumatic Actuator Via Immersion and Invariance, pp. 4145-4151.</i>	
Rapp, Philipp	Univ. of Stuttgart
Klünder, Mario	Univ. of Stuttgart
Sawodny, Oliver	Univ. of Stuttgart
Tarin, Cristina	Univ. of Stuttgart
12:00-12:20	WeA06.7
<i>Certainty Equivalence M-MRAC for Systems with Unmatched Uncertainties, pp. 4152-4157.</i>	
Stepanyan, Vahram	NASA Ames Res. Center
Krishnakumar, Kalmanje	NASA Ames Res. Center

WeA07	Maile 1
Large Scale Systems (Regular Session)	
Chair: Ugrinovskii, Valery	Univ. of New South Wales
Co-Chair: Lazar, Mircea	Eindhoven Univ. of Tech.
10:00-10:20	WeA07.1
<i>A Cyclic Small-Gain Condition and an Equivalent Matrix-Like Criterion for Iiss Networks, pp. 4158-4164.</i>	
Ito, Hiroshi	Kyushu Inst. of Tech.
Jiang, Zhong-Ping	Pol. Inst. NYU
Dashkovskiy, Sergey	Univ. of Applied Sciences Erfurt
Rüffer, Björn S.	Univ. of Paderborn
10:20-10:40	WeA07.2
<i>Small Gain Theorems for Large Scale Systems and Construction of ISS Lyapunov Functions (I), pp. 4165-4170.</i>	
Dashkovskiy, Sergey	Univ. of Applied Sciences Erfurt
Rüffer, Björn S.	Univ. of Paderborn
Wirth, Fabian R.	Univ. Würzburg
10:40-11:00	WeA07.3
<i>Conditions for Detectability in Distributed Consensus-Based Observer Networks, pp. 4171-4174.</i>	
Ugrinovskii, Valery	Univ. of New South Wales
11:00-11:20	WeA07.4
<i>Clustering-Based H2-State Aggregation of Positive Networks and Its Application to Reduction of Chemical Master Equations, pp. 4175-4180.</i>	
Ishizaki, Takayuki	Tokyo Inst. of Tech.
Kashima, Kenji	Osaka Univ.
Girard, Antoine	Univ. Joseph Fourier
Imura, Jun-ichi	Tokyo Inst. of Tech.
Chen, Luonan	Shanghai Univ.
Aihara, Kazuyuki	Univ. of Tokyo
11:20-11:40	WeA07.5
<i>Exact Constraint Aggregation with Applications to Smart Grids and Resource Distribution, pp. 4181-4186.</i>	
Trangbaek, Klaus	Aalborg Univ.
Bendtsen, Jan Dimon	Aalborg Univ.
11:40-12:00	WeA07.6
<i>Non-conservative Dissipativity and Small-gain Conditions for Stability Analysis of Interconnected Systems, pp. 4187-4192.</i>	
Gielen, Rob	Eindhoven Univ. of Tech.
Lazar, Mircea	Eindhoven Univ. of Tech.
12:00-12:20	WeA07.7
<i>Plug-And-Play Decentralized Model Predictive Control, pp. 4193-4198.</i>	
Riverso, Stefano	Univ. degli Studi di Pavia
Farina, Marcello	Pol. di Milano
Ferrari-Trecate, Giancarlo	Univ. degli Studi di Pavia
WeA08	Maile 2
Hybrid Systems I (Regular Session)	
Chair: Broucke, Mireille E.	Univ. of Toronto
Co-Chair: Prieur, Christophe	CNRS
10:00-10:20	WeA08.1
<i>Generalized Flow Conditions for Reach Control on Polytopes, pp. 4199-4204.</i>	
Helwa, Mohamed Khairy	Univ. of Toronto
Broucke, Mireille E.	Univ. of Toronto
10:20-10:40	WeA08.2
<i>Reach Control Problem: Well-Posedness and Structural Stability, pp. 4205-4210.</i>	
Broucke, Mireille E.	Univ. of Toronto
Semsar Kazerooni, Elham	Univ. of Toronto
10:40-11:00	WeA08.3
<i>Newton-Geodesic HMP Algorithms for the Optimization of Hybrid Systems and the Geometric Properties of Hybrid Value Functions, pp. 4211-4216.</i>	
Taringoo, Farzin	McGill Univ.
Caines, Peter E.	McGill Univ.
11:00-11:20	WeA08.4
<i>A Convex Hybrid H_infty Synthesis with Guaranteed Convergence Rate, pp. 4217-4222.</i>	
Fichera, Francesco	LAAS-CNRS
Prieur, Christophe	CNRS
Tarbouriech, Sophie	LAAS-CNRS
Zaccarian, Luca	LAAS-CNRS
11:20-11:40	WeA08.5
<i>Tracking Control of Mechanical Systems with a Unilateral Position Constraint Inducing Dissipative Impacts, pp. 4223-4228.</i>	
Biemond, J. J. Benjamin	Eindhoven Univ. of Tech.
Van De Wouw, Nathan	Eindhoven Univ. of Tech.
Heemels, W.P.M.H.	Eindhoven Univ. of Tech.
Sanfelice, Ricardo G.	Univ. of Arizona
Nijmeijer, Hendrik	Eindhoven Univ. of Tech.
11:40-12:00	WeA08.6
<i>Robust Stability and Performance Analysis of Discrete-Time Piecewise Affine Systems with Disturbances, pp. 4229-4234.</i>	
Mirzazad Barjough, Sanam	Pennsylvania State Univ.
Lee, Ji-Woong	Pennsylvania State Univ.
12:00-12:20	WeA08.7
<i>Stability Analysis of Discrete-Time Piecewise-Affine Systems Over Non-Invariant Domains, pp. 4235-4240.</i>	
Rubagotti, Matteo	Nazarbayev Univ.
Zaccarian, Luca	LAAS-CNRS
Bemporad, Alberto	IMT Inst. for Advanced Studies Lucca

WeA09	Maile 3
H-Infinity Control (Regular Session)	
Chair: Dambrine, Michel	Univ. de Valenciennes et du Hainaut-Cambrésis
Co-Chair: Shi, Yang	Univ. of Victoria
10:00-10:20	WeA09.1
<i>H-Infinity Control of Microgrids Involving Gas Turbine Engines and Batteries (I), pp. 4241-4246.</i>	
Nagahara, Masaaki	Kyoto Univ.
Yamamoto, Yutaka	Kyoto Univ.
Miyazaki, Seiya	Panasonic Corp.
Kudoh, Takahiro	Panasonic Corp.
Hayashi, Naoki	Kyoto Univ.
10:20-10:40	WeA09.2
<i>Numerical Sensitivity of Linear Matrix Inequalities for Shorter Sampling Periods, pp. 4247-4252.</i>	
Lennartson, Bengt	Chalmers Univ. of Tech.
Middleton, Richard H.	The Univ. of Newcastle
10:40-11:00	WeA09.3
<i>Design of an Optimal and Robust Controller for a Free-Electron Laser Exploiting Symmetries of the RF-System, pp. 4253-4258.</i>	
Pfeiffer, Sven	DESY
Lichtenberg, Gerwald	Hamburg Univ. of Tech.
Schmidt, Christian	DESY
Schlarp, Holger	DESY
Werner, Herbert	Hamburg Univ. of Tech.
11:00-11:20	WeA09.4
<i>Observer Based H_infty Controllers for a Class of Nonlinear Lipschitz Discrete-Time Systems, pp. 4259-4264.</i>	
Grandvallet, Bertrand	CRAN
Zemouche, Ali	Univ. de Lorraine
Souley Ali, Harouna	Univ. Henri Poincaré
Boutayeb, Mohamed	Univ. Henri Poincaré
11:20-11:40	WeA09.5
<i>Robust HSinf Control Design for Switching Uncertain System: Application for Turbocharged Gasoline Air System Control, pp. 4265-4270.</i>	
Nguyen, Tran Anh Tu	Univ. de Valenciennes et du Hainaut-Cambrésis
Lauber, Jimmy	Univ. de Valenciennes et du Hainaut-Cambrésis
Dambrine, Michel	Univ. de Valenciennes et du Hainaut-Cambrésis
11:40-12:00	WeA09.6
<i>H-Infinity Output Feedback Control for Preview and Delayed Systems, pp. 4271-4278.</i>	
Kojima, Akira	Tokyo Metropolitan Univ.
12:00-12:20	WeA09.7
<i>Delay-Dependent State-Feedback H_infty Control for Nonlinear Stochastic Systems with Time-Varying Delays, pp. 4279-4284.</i>	
Li, Huiping	Univ. of Victoria
Shi, Yang	Univ. of Victoria

WeA10	Pikake 1
Model Reduction (Regular Session)	
Chair: Fujimoto, Kenji	Nagoya Univ.
Co-Chair: Rantzer, Anders	Lund Univ.
10:00-10:20	WeA10.1
<i>Scalable Positivity Preserving Model Reduction Using Linear Energy Functions, pp. 4285-4290.</i>	
Sootla, Aivar	Imperial Coll. London
Rantzer, Anders	Lund Univ.
10:20-10:40	WeA10.2
<i>Parameterized Model Order Reduction Using Extended Balanced Truncation, pp. 4291-4296.</i>	
Sandberg, Henrik	KTH Royal Inst. of Tech.
10:40-11:00	WeA10.3
<i>A New Perspective on H2 Controller Reduction, pp. 4297-4301.</i>	
Kong, Lili	Louisiana State Univ.
Zhou, Kemin	Louisiana State Univ.
11:00-11:20	WeA10.4
<i>Dimension Reduction for Large-Scale Networked Systems, pp. 4302-4307.</i>	
Morarescu, Irinel Constantin	INPL
Postoyan, Romain	CNRS-CRAN
11:20-11:40	WeA10.5
<i>A Symmetry Approach for Balanced Truncation of Positive Linear Systems, pp. 4308-4313.</i>	
Grussler, Christian	Lund Univ.
Damm, Tobias	Univ. of Bayreuth
11:40-12:00	WeA10.6
<i>On Subspace Balanced Realization and Model Order Reduction for Nonlinear Interconnected Systems, pp. 4314-4319.</i>	
Fujimoto, Kenji	Kyoto Univ.
12:00-12:20	WeA10.7
<i>Geometric Multiscale Reduction for Autonomous and Controlled Nonlinear Systems, pp. 4320-4327.</i>	
Bouvrie, Jake	Duke Univ.
Maggioni, Mauro	Duke Univ.
WeA11	Pikake 2
Control of Tokamak Plasmas (Invited Session)	
Chair: Pironti, Alfredo	Univ. degli Studi di Napoli Federico II
Co-Chair: Schuster, Eugenio	Lehigh Univ.
Organizer: Pironti, Alfredo	Univ. degli Studi di Napoli Federico II
Organizer: Schuster, Eugenio	Lehigh Univ.
10:00-10:20	WeA11.1
<i>Magnet System Optimization in Tokamak Engineering (I), pp. 4328-4334.</i>	
Portone, Alfredo	Fusion For Energy

10:20-10:40	WeA11.2	Pikake 3
<i>Simultaneous Control of Modes with Multiple Toroidal Periodicity in Tokamak Plasmas (I)</i> , pp. 4335-4340.		
Ariola, Marco	Univ. degli Studi di Napoli Parthenope	Gipsa-Lab.
De Tommasi, Gianmaria	Univ. degli Studi di Napoli Federico II	Univ. of Cambridge
Pironti, Alfredo	Univ. degli Studi di Napoli Federico II	
Villone, Fabio	Univ. di Cassino	
10:40-11:00	WeA11.3	WeA12.1
<i>Current Profile Tracking for the DIII-D Tokamak Via LQI Optimal Control (I)</i> , pp. 4341-4346.		
Boyer, Mark D.	Lehigh Univ.	Grenoble-INP
Barton, Justin	Lehigh Univ.	Grenoble-INP
Schuster, Eugenio	Lehigh Univ.	Grenoble-INP
Walker, Michael L.	General Atomics	
Luce, Timothy	General Atomics	
Ferron, J. R.	General Atomics	
Penafior, Benjamin P.	General Atomics	
Johnson, Robert D.	General Atomics	
Humphreys, D.A.	General Atomics	
11:00-11:20	WeA11.4	WeA12.2
<i>A Two-Time-Scale Model-Based Combined Magnetic and Kinetic Control System for Advanced Tokamak Scenarios on DIII-D (I)</i> , pp. 4347-4352.		
Shi, Wenyu	Lehigh Univ.	Toyota Tech. Inst.
Wehner, William	Lehigh Univ.	Toyota Tech. Inst.
Barton, Justin	Lehigh Univ.	Toyota Tech. Inst.
Boyer, Mark D.	Lehigh Univ.	Toyota Tech. Inst.
Schuster, Eugenio	Lehigh Univ.	Toyota Tech. Inst.
Moreau, Didier	CEA	Toyota Tech. Inst.
Luce, Timothy	General Atomics	Toyota Tech. Inst.
Ferron, J. R.	General Atomics	Toyota Tech. Inst.
Walker, Michael L.	General Atomics	Toyota Tech. Inst.
Humphreys, D.A.	General Atomics	Toyota Tech. Inst.
Penafior, Benjamin P.	General Atomics	Toyota Tech. Inst.
Johnson, Robert D.	General Atomics	Toyota Tech. Inst.
11:20-11:40	WeA11.5	WeA12.3
<i>A Real-Time System for Data Acquisition, Elaboration and Actuator's Control for Magnetohydrodynamics Instabilities in the FTU Tokamak (I)</i> , pp. 4353-4358.		
Sozzi, Carlo	CNR	Univ. of Oklahoma
11:40-12:00	WeA11.6	Univ. of Oklahoma
<i>Bootstrap Current Optimization in Tokamaks Using Sum-Of-Squares Polynomials (I)</i> , pp. 4359-4365.		
Gahlawat, Aditya	Illinois Inst. of Tech.	Grenoble Univ.
Witrant, Emmanuel	Univ. Joseph Fourier	Grenoble Inst. of Tech.
Peet, Matthew M.	Arizona State Univ.	CNRS-Grenoble INP
Alamir, Mazen	CNRS	
12:00-12:20	WeA12.7	WeA12.4
<i>Performances Improvement through an LPV/Hinf Control Coordination Strategy Involving Braking, Semi-Active Suspension and Steering Systems</i> , pp. 4384-4389.		
Fergani, Soheib		Imperial Coll. London
Sename, Olivier		Imperial Coll. London
Dugard, Luc		Imperial Coll. London
11:40-12:00	WeA12.5	WeA12.5
<i>Pitch Angle Reduction for Cars under Acceleration and Braking by Active Variable Geometry Suspension</i> , pp. 4390-4395.		
Arana, Carlos		Imperial Coll. London
Evangelou, Simos Andreas		Imperial Coll. London
Dini, Daniele		Imperial Coll. London
11:40-12:00	WeA12.6	WeA12.6
<i>Power Absorption Invariance for Brownian Spring Forcing</i> , pp. 4396-4399.		
Clark, John Martin C.		Imperial Coll. London
Smith, Malcolm C.		Univ. of Cambridge
12:00-12:20	WeA12.7	WeA12.7
<i>Preview Control of a Constrained Hydraulic Active Suspension System</i> , pp. 4400-4405.		
De Bruyne, Stijn		LMS International
Van der Auweraer, Herman		LMS International
Anthonis, Jan		KU Leuven
De Smet, Wim		KU Leuven
Swevers, Jan		KU Leuven

WeA13	Ilma 1
Control of Mechanical Systems (Regular Session)	
Chair: Kelly, Scott	Univ. of North Carolina at Charlotte
Co-Chair: Landau, Ioan Dore	GIPSA-Lab. Control Dept.
10:00-10:20	WeA13.1
<i>Optimal Trajectory Control of Flexible Two-Link Manipulator Based on PDE Model</i> , pp. 4406-4411.	
Zhang, Linjun	Beihang Univ.
Liu, Jinkun	Beihang Univ.
10:20-10:40	WeA13.2
<i>Improving Adaptive Feedforward Vibration Compensation by Using Integral + Proportional Adaptation</i> , pp. 4412-4417.	
Landau, Ioan Dore	GIPSA-Lab. Univ. de Grenoble
Airimitoiae, Tudor-Bogdan	GIPSA-Lab. Univ. de Grenoble
10:40-11:00	WeA13.3
<i>Adaptive Tracking Control of a Class of Mechanical Systems</i> , pp. 4418-4423.	
Jin, Ying	Concordia Univ.
Fu, Jun	MIT
11:00-11:20	WeA13.4
<i>Robustifying Energy Shaping Control of Mechanical Systems</i> , pp. 4424-4429.	
Romero Velazquez, Jose Guadalupe	Lab. des Signaux et Systèmes, CNRS-SUPELEC
Donaire, Alejandro	Univ. of Newcastle
Ortega, Romeo	Lab. des Signaux et Systèmes, CNRS-SUPELEC
11:20-11:40	WeA13.5
<i>Self Recovery Phenomenon of Mechanical Systems with an Unactuated Cyclic Variable</i> , pp. 4430-4435.	
Chang, Dong Eui	Univ. of Waterloo
Jeon, Soo	Univ. of Waterloo
11:40-12:00	WeA13.6
<i>Hamiltonian Mechanics and Nonlinear Dynamics of a Body Subject to Time-Varying Gyroscopic and Potential Forces</i> , pp. 4436-4441.	
Kelly, Scott	Univ. of North Carolina at Charlotte
Vankerschaver, Joris	Ghent Univ.
12:00-12:20	WeA13.7
<i>PDE Boundary Control for Euler-Bernoulli Beam Using a Two Stage Perturbation Observer</i> , pp. 4442-4448.	
Paranjape, Aditya	Univ. of Illinois, Urbana-Champaign
Guan, Jinyu	Univ. of Illinois, Urbana-Champaign
Chung, Soon-Jo	Univ. of Illinois, Urbana-Champaign
Krstic, Miroslav	Univ. of California, San Diego
WeA14	Ilma 2
Optimization Algorithms I (Regular Session)	
Chair: Sznaier, Mario	Northeastern Univ.
Co-Chair: Necoara, Ion	Univ. Pol. Bucharest
10:00-10:20	WeA14.1
<i>Newton-Based Stochastic Extremum Seeking</i> , pp. 4449-4454.	
Liu, Shu-Jun	Southeast Univ.
Krstic, Miroslav	Univ. of California, San Diego
10:20-10:40	WeA14.2
<i>An Outer-Approximation Based Algorithm for Solving Integer Non-Linear Programming Problems for Optimal Sensor Placement</i> , pp. 4455-4461.	
Seenuman, Gayathri	Univ. of Michigan
Dai, Dan	General Electric, Global Res.
Lopez-Negrete, Rodrigo	General Electric, Global Res.
Kumar, Aditya	General Electric, Global Res.
Dokucu, Mustafa Tekin	General Electric, Global Res.
Kumar, Rajeeva	General Electric, Global Res.
10:40-11:00	WeA14.3
<i>On the Convergence of Joint Schemes for Online Computation and Supervised Learning</i> , pp. 4462-4467.	
Shanbhag, Uday V.	Univ. of Illinois, Urbana-Champaign
Jiang, Hao	UIUC
11:00-11:20	WeA14.4
<i>Accelerated Dual Coordinate Algorithms for Separable Convex Cost Network Flow Problems</i> , pp. 4468-4473.	
Castanon, David A.	Boston Univ.
Bangla, Ajay Kumar	Boston Univ.
11:20-11:40	WeA14.5
<i>A Random Coordinate Descent Method for Large-Scale Resource Allocation Problems</i> , pp. 4474-4479.	
Necoara, Ion	Univ. Pol. Bucharest
11:40-12:00	WeA14.6
<i>Suboptimal Distributed MPC Based on a Block-Coordinate Descent Method with Feasibility and Stability Guarantees</i> , pp. 4480-4485.	
Necoara, Ion	Univ. Pol. Bucharest
12:00-12:20	WeA14.7
<i>An ADMM Algorithm for Solving L_1 Regularized MPC</i> , pp. 4486-4491.	
Annergren, Mariette	KTH Royal Inst. of Tech.
Hansson, Anders	Linkoping Univ.
Wahlberg, Bo	KTH Royal Inst. of Tech.
WeA15	Ilma 3
Linear Parameter-Varying Systems I (Regular Session)	
Chair: Calafiore, Giuseppe	Pol. di Torino
Co-Chair: Szabo, Zoltan	Hungarian Acad. of Sciences

10:00-10:20	WeA15.1
<i>Low-Complexity LPV Input-Output Identification and Control of a Turbocharged Combustion Engine</i> , pp. 4492-4497.	
Kominek, Andreas Bernd	Germanischer Lloyd Industrial Services GmbH
Remolina Cano, Santiago	Hamburg Univ. of Tech.
Boonto, Sudchai	King Mongkut's University of Tech. Thonburi
Werner, Herbert	Hamburg Univ. of Tech.
Garwon, Maiko	IAV GmbH, Ingenieurgesellschaft Auto und Verkehr
Schultalbers, Matthias	IAV GmbH, Ingenieurgesellschaft Auto und Verkehr
10:20-10:40	WeA15.2
<i>Modal Observer Design for a Flexible Motion System with State Dependent Sensor Positions</i> , pp. 4498-4504.	
Verkerk, K.W.	Eindhoven Univ. of Tech.
Achterberg, Jaron	Eindhoven Univ. of Tech.
van Lierop, C.M.M.	Eindhoven Univ. of Tech.
Weiland, Siep	Eindhoven Univ. of Tech.
10:40-11:00	WeA15.3
<i>Nilpotent Semigroups for the Characterization of Flat Outputs of Discrete-Time Switched Linear and LPV Systems</i> , pp. 4505-4510.	
Parriaux, Jeremy	Lorraine Univ.
Milleroux, Gilles	Lorraine Univ.
11:00-11:20	WeA15.4
<i>Affine LPV Systems: Realization Theory, Input-Output Equations and Relationship with Linear Switched Systems</i> , pp. 4511-4516.	
Petreczky, Mihaly	Ec. des Mines de Douai
Mercère, Guillaume	Univ. of Poitiers
11:20-11:40	WeA15.5
<i>Fast Input-Free Observers for LPV Discrete-Time Systems</i> , pp. 4517-4522.	
Fiacchini, Mirko	CNRS
Milleroux, Gilles	Lorraine Univ.
11:40-12:00	WeA15.6
<i>Mobius Transform and Efficient LPV Synthesis</i> , pp. 4523-4528.	
Szabo, Zoltan	Hungarian Acad. of Sciences
Biró, Zsolt	Hungarian Acad. of Sciences
Bokor, Jozsef	Hungarian Acad. of Sciences
WeA16	Haleakala Ballroom 3
Predictive Control of Linear Systems I (Regular Session)	
Chair: Szabo, Tomas	Univ. Ulm
Co-Chair: Kvasnica, Michal	Slovak Univ. of Tech. in Bratislava
10:00-10:20	WeA16.1
<i>Stochastic Model Predictive Control: Controlling the Average Number of Constraint Violations</i> , pp. 4529-4536.	
Korda, Milan	EPFL Lausanne
Gondhalekar, Ravi	Univ. of California Santa Barbara
Oldewurtel, Frauke	ETH Zurich
Jones, Colin Neil	EPFL Lausanne
10:20-10:40	WeA16.2
<i>Reducing the Memory Footprint of Explicit MPC Solutions by Partial Selection</i> , pp. 4537-4542.	
Kvasnica, Michal	Slovak Univ. of Tech. in Bratislava
Hledík, Juraj	Vienna Univ. of Ec. and Business
Fikar, Miroslav	Slovak Univ. of Tech. in Bratislava
10:40-11:00	WeA16.3
<i>Reference Tracking MPC Using Terminal Set Scaling</i> , pp. 4543-4548.	
Simon, Daniel	Linköping Univ.
Löfberg, Johan	Linköping Univ.
Glad, S. Torkel	Linköping Univ.
11:00-11:20	WeA16.4
<i>Model Predictive Control Applied to a River System with Two Reaches</i> , pp. 4549-4554.	
Breckpot, Maarten	Katholieke Univ. Leuven
Agudelo, Oscar Mauricio	Katholieke Univ. Leuven
De Moor, Bart L.R.	Katholieke Univ. Leuven
11:20-11:40	WeA16.5
<i>Model-Predictive Control of Powershifts of Heavy-Duty Trucks with Dual-Clutch Transmissions</i> , pp. 4555-4561.	
Szabo, Tomas	Univ. Ulm
Buchholz, Michael	Univ. Ulm
Dietmayer, Klaus Christian	Univ. Ulm
Jürgen	
11:40-12:00	WeA16.6
<i>Combinatorial Multi-Parametric Quadratic Programming with Saturation Matrix Based Pruning</i> , pp. 4562-4567.	
Feller, Christian	Univ. of Stuttgart
Johansen, Tor Arne	Norwegian Univ. of Science & Tech.
Olaru, Sorin	Supelec
12:00-12:20	WeA16.7
<i>A Service Reliability Model Predictive Control with Dynamic Safety Stocks and Actuators Health Monitoring for Drinking Water Networks</i> , pp. 4568-4573.	
Grosso, Juan	Univ. Pol. de Catalunya
Ocampo-Martinez, Carlos	Univ. Pol. de Catalunya
Puig, Vicenc	Univ. Pol. de Catalunya
WeA17	
Lyapunov Methods (Regular Session)	
Chair: Dugard, Luc	CNRS-Grenoble INP
Co-Chair: Sloth, Christoffer	Aalborg Univ.
10:00-10:20	WeA17.1
<i>Settling Time Design for Nonlinear Finite-Time Control Systems</i> , pp. 4574-4579.	
Nakamura, Hisakazu	Tokyo Univ. of Science
Nakamura, Nami	
Fujii, Yasuhiro	Uzushio Electric Co., Ltd.
10:20-10:40	WeA17.2
<i>On the Existence of Compositional Barrier Certificates</i> , pp. 4580-4585.	
Sloth, Christoffer	Aalborg Univ.
Wisniewski, Rafal	Aalborg Univ.
Pappas, George J.	Univ. of Pennsylvania

10:40-11:00	WeA17.3	
<i>A Weak Version of the Small-Gain Theorem</i> , pp. 4586-4590.		
Astolfi, Alessandro Praly, Laurent	Imperial Coll. & Univ. of Rome MINES ParisTech	
11:00-11:20	WeA17.4	
<i>Continuous Congestion Control for Differentiated-Services Networks</i> , pp. 4591-4596.		
Subramanian, Sankrith Curtis, Jess Pasiliao, Eduardo Shea, John Dixon, Warren E.	Univ. of Florida Air Force Res. Lab. Air Force Res. Lab. Univ. of Florida Univ. of Florida	
11:20-11:40	WeA17.5	
<i>An Invariance Principle for Time-Varying Systems</i> , pp. 4597-4602.		
Hancock, Edward J. Papachristodoulou, Antonis	Univ. of Oxford Univ. of Oxford	
11:40-12:00	WeA17.6	
<i>Total Energy Shaping of a Class of Underactuated Port-Hamiltonian Systems Using a New Set of Closed-Loop Potential Shape Variables</i> , pp. 4603-4609.		
Renton, Christopher Teo, Yik Ren Perez, Tristan	Univ. of Newcastle Univ. of Newcastle Univ. of Newcastle	
12:00-12:20	WeA17.7	
<i>Robust Stability Analysis Using Lyapunov Density</i> , pp. 4610-4615.		
Rajaram, Rajeev Vaidya, Umesh	Kent State Univ. Iowa State Univ.	
14:00-14:20	WeB01.1	
<i>Robust Network Reconstruction in Polynomial Time (I)</i> , pp. 4616-4621.		
Hayden, David P. Yuan, Ye Goncalves, Jorge M.	Univ. of Cambridge Univ. of Cambridge Univ. of Cambridge	
14:20-14:40	WeB01.2	
<i>Responsiveness and Manipulability of Formations of Multi-Robot Networks (I)</i> , pp. 4622-4628.		
Kawashima, Hiroaki Zhu, Guangwei Hu, Jianghai Egerstedt, Magnus	Kyoto Univ. / Georgia Inst. of Tech. Purdue Univ. Purdue Univ. Georgia Inst. of Tech.	
14:40-15:00	WeB01.3	
<i>Network Reconstruction of Dynamical Polytrees with Unobserved Nodes (I)</i> , pp. 4629-4634.		
Materassi, Donatello Salapaka, Murti V.	Massachusetts Inst. of Tech. Univ. of Minnesota, Minneapolis	
15:00-15:20	WeB01.4	
<i>Dynamical Structure Function Identifiability Conditions Enabling Signal Structure Reconstruction (I)</i> , pp. 4635-4641.		
Adebayo, Julius Southwick, Taylor Chetty, Vasu Yeung, Enoch Yuan, Ye Goncalves, Jorge M. Grose, Julianne Prince, John STAN, Guy-Bart Vincent Warnick, Sean	Brigham Young Univ. Washington Univ. in St. Louis Brigham Young Univ. California Inst. of Tech. Univ. of Cambridge Univ. of Cambridge Brigham Young Univ. Brigham Young Univ. Imperial Coll. London Brigham Young Univ.	
15:20-15:40	WeB01.5	
<i>A Graph Realization Approach to Network Identification (I)</i> , pp. 4642-4647.		
Nabi-Abdolyousefi, Marzieh Fazel, Maryam Mesbahi, Mehran	Univ. of Washington Univ. of Washington Univ. of Washington	
15:40-16:00	WeB01.6	
<i>Node Certainty in Collective Decision Making</i> , pp. 4648-4653.		
Poulakakis, Ioannis Scardovi, Luca Leonard, Naomi Ehrich	Univ. of Delaware Univ. of Toronto Princeton Univ.	
14:00-14:20	WeB02.1	
<i>Learning Potential Functions by Demonstration for Path Planning</i> , pp. 4654-4659.		
Winn, Andrew Gao, Xuemei Mishra, Sandipan Julius, Agung	Rensselaer Pol. Inst. Rensselaer Pol. Inst. Rensselaer Pol. Inst. Rensselaer Pol. Inst.	
14:20-14:40	WeB02.2	
<i>Output Feedback Adaptive Iterative Learning Control for Nonlinear Discrete-Time Systems with Unknown Control Directions</i> , pp. 4660-4665.		
Yu, Miao Wang, Jiasen Xin, Huanhai Qi, Donglian	Zhejiang Univ. Zhejiang Univ. Zhejiang Univ. Zhejiang Univ.	

15:40-16:00	WeB04.6	
<i>Quickest Detection in a System with Correlated Noise</i> , pp. 4757-4763.		
Zhang, Hongzhong Hadjiliadis, Olympia	Columbia Univ. City Univ. of New York	
WeB05	Plumeria 2	
Estimation Problems II (Regular Session)		
Chair: Zemouche, Ali Co-Chair: Yang, Jongwook	Univ. de Lorraine Seoul National Univ.	
14:00-14:20	WeB05.1	
<i>Optimal Point Estimates for Multi-Target States Based on Kernel Distances</i> , pp. 4764-4769.		
Baum, Marcus Ruoff, Patrick Itte, Dominik Hanebeck, Uwe D.	Karlsruhe Inst. of Tech. (KIT) Karlsruhe Inst. of Tech. (KIT) Karlsruhe Inst. of Tech. (KIT) Karlsruhe Inst. of Tech. (KIT)	
14:20-14:40	WeB05.2	
<i>On the Robust Design of Unknown Inputs Takagi-Sugeno Observer</i> , pp. 4770-4773.		
Chadli, Mohammed Karimi, Hamid Reza	Univ. de Picardie Jules Verne Univ. of Agder	
14:40-15:00	WeB05.3	
<i>Observers for Continuous-Time Lipschitz Nonlinear Systems. Analysis and Comparisons</i> , pp. 4774-4779.		
Zemouche, Ali Boutayeb, Mohamed	Univ. de Lorraine Univ. of Henri Poincaré Nancy	
15:00-15:20	WeB05.4	
<i>Observers Design for Discrete-Time Lipschitz Nonlinear Systems. State of the Art and New Results</i> , pp. 4780-4785.		
Zemouche, Ali Boutayeb, Mohamed	Univ. de Lorraine Univ. of Henri Poincaré Nancy	
15:20-15:40	WeB05.5	
<i>Reduced-Order Dynamic Observer Error Linearization for Discrete-Time Systems</i> , pp. 4786-4791.		
Yun, Hyeyonjun Yang, Jongwook Seo, Jin H.	Seoul National Univ. Seoul National Univ. Seoul National Univ.	
15:40-16:00	WeB05.6	
<i>Distributed Moving Horizon Estimation Via Dual Decomposition</i> , pp. 4792-4798.		
Philipp, Peter Schmid-Zurek, Thomas	Tech. Univ. München Tech. Univ. München	
WeB06	Plumeria 3	
Adaptive Control II (Regular Session)		
Chair: Bernstein, Dennis S. Co-Chair: Niedzwiecki, Maciej	Univ. of Michigan Tech. Univ. of Gdansk	
14:00-14:20	WeB06.1	
<i>Adaptive Detection of Terminal Voltage Collapses for Li-Ion Batteries</i> , pp. 4799-4804.		
Mukhopadhyay, Shayok Zhang, Fumin	Georgia Inst. of Tech. Georgia Inst. of Tech.	
14:20-14:40	WeB06.2	
<i>Robustification of the Self-Optimizing Narrowband Interference Canceler - Extremum Seeking in Complex Domain</i> , pp. 4805-4810.		
Meller, Michal Stanislaw Niedzwiecki, Maciej	Tech. Univ. of Gdansk Tech. Univ. of Gdansk	
14:40-15:00	WeB06.3	
<i>Adaptive Control of Uncertain Hammerstein Systems with Monotonic Input Nonlinearities Using Auxiliary Nonlinearities</i> , pp. 4811-4816.		
Yan, Jin D'Amato, Anthony Sumer, Dogan Hoagg, Jesse B. Bernstein, Dennis S.	Univ. of Michigan Univ. of Michigan Univ. of Michigan Univ. of Kentucky Univ. of Michigan	
15:00-15:20	WeB06.4	
<i>Controller Compact Form Dynamic Linearization Based Model Free Adaptive Control</i> , pp. 4817-4822.		
Zhu, Yuanming Hou, Zhongsheng	Beijing jiaotong Univ. Beijing Jiaotong Univ.	
15:20-15:40	WeB06.5	
<i>L1 Adaptive Control of System with Unmatched Disturbance by Using Eigenvalue Assignment Method</i> , pp. 4823-4828.		
Che, Jiaxing Cao, Chengyu	Univ. of Connecticut Univ. of Connecticut	
15:40-16:00	WeB06.6	
<i>Adaptive Control of a Class of Multilinearly Parameterized Systems by Using Noncertainty Equivalence Control</i> , pp. 4829-4834.		
Netto, Mariana Annaswamy, Anuradha	IFSTTAR Massachusetts Inst. of Tech.	
WeB07	Maile 1	
Distributed Optimization and Control I (Invited Session)		
Chair: Ozdaglar, Asu Co-Chair: Jadbabaie, Ali Organizer: Wei, Ermin Organizer: Ozdaglar, Asu Organizer: Jadbabaie, Ali	MIT Univ. of Pennsylvania MIT MIT Univ. of Pennsylvania	
14:00-14:20	WeB07.1	
<i>A Large Scale Analysis of a Classification Algorithm Over Sensor Networks (I)</i> , pp. 4835-4839.		
Fagnani, Fabio Fosson, Sophie Ravazzi, Chiara	Pol. di Torino Pol. di Torino Pol. di Torino	
14:20-14:40	WeB07.2	
<i>A Gossip Algorithm for Aggregative Games on Graphs (I)</i> , pp. 4840-4845.		
Koshal, Jayash Nedich, Angelia Shanbhag, Uday V.	Univ. of Illinois, Urbana-Champaign Univ. of Illinois, Urbana-Champaign Univ. of Illinois, Urbana-Champaign	

14:40-15:00	WeB07.3	
<i>Randomized Gossiping with Unreliable Communication: Dependent or Independent Node Updates (I)</i> , pp. 4846-4851.		
Shi, Guodong Johansson, Mikael Johansson, Karl H.	KTH Royal Inst. of Tech. KTH Royal Inst. of Tech. KTH Royal Inst. of Tech.	
15:00-15:20	WeB07.4	
<i>Optimal Cooperative Control of Dynamically Decoupled Systems (I)</i> , pp. 4852-4857.		
Kim, Jong-Han Lall, Sanjay Ryoo, Chang-Kyung	Stanford Univ. Stanford Univ. Inha Univ.	
15:20-15:40	WeB07.5	
<i>On Distributed Equilibrium Seeking for Generalized Convex Games (I)</i> , pp. 4858-4863.		
Zhu, Minghui Frazzoli, Emilio	Massachusetts Inst. of Tech. Massachusetts Inst. of Tech.	
15:40-16:00	WeB07.6	
<i>Accelerated Iterative Distributed Controller Synthesis with a Barzilai-Borwein Step Size</i> , pp. 4864-4870.		
Deroo, Frederik Ulbrich, Michael Anderson, Brian D.O. Hirche, Sandra	Tech. Univ. München Tech. Univ. München Australian National Univ. Tech. Univ. München	
WeB08	Maile 2	
Design of Internal Models for Nonlinear and Hybrid Systems (Invited Session)		
Chair: Isidori, Alberto Co-Chair: Marconi, Lorenzo Organizer: Isidori, Alberto Organizer: Marconi, Lorenzo	Univ. di Roma Univ. di Bologna Univ. di Roma Univ. di Bologna	
14:00-14:20	WeB08.1	
<i>Output Regulation for Over-Actuated Linear Systems Via Inverse Model Allocation (I)</i> , pp. 4871-4876.		
Serrani, Andrea	Ohio State Univ.	
14:20-14:40	WeB08.2	
<i>Hybrid Internal Models for Robust Spline Tracking (I)</i> , pp. 4877-4882.		
Cox, Nicholas Marconi, Lorenzo Teel, Andrew R.	Univ. of California, Santa Barbara Univ. di Bologna Univ. of California, Santa Barbara	
14:40-15:00	WeB08.3	
<i>Conditional Integrator for Non-Minimum Phase Nonlinear Systems (I)</i> , pp. 4883-4887.		
ranran, li Khalil, Hassan K.	Northeastern Univ. Michigan State Univ.	
15:00-15:20	WeB08.4	
<i>Antiwindup Regulation of Saturated Linear Systems (I)</i> , pp. 4888-4893.		
Forni, Fulvio Zaccarian, Luca Sepulchre, Rodolphe J.	Univ. of Liège LAAS-CNRS Univ. de Liege	
15:20-15:40	WeB08.5	
<i>On the Internal Model Principle in Formation Control and in Output Synchronization of Nonlinear Systems (I)</i> , pp. 4894-4899.		
De Persis, Claudio Jayawardhana, Bayu	Univ. of Groningen Univ. of Groningen	
15:40-16:00	WeB08.6	
<i>Shifting the Internal Model from Control Input to Controlled Output in Nonlinear Output Regulation (I)</i> , pp. 4900-4905.		
Isidori, Alberto Marconi, Lorenzo	Univ. di Roma Univ. di Bologna	
WeB09	Maile 3	
Modeling and Control of Disease (Invited Session)		
Chair: Singh, Abhyudai Co-Chair: Zurakowski, Ryan Organizer: Singh, Abhyudai Organizer: Zurakowski, Ryan	Univ. of Delaware Univ. of Delaware Univ. of Delaware Univ. of Delaware	
14:00-14:20	WeB09.1	
<i>Sub-Optimal Switching with Dwell Time Constraints for Control of Viral Mutation (I)</i> , pp. 4906-4911.		
Hernandez Vargas, Esteban Colaneri, Patrizio Middleton, Richard H.	Helmholtz-Zentrum fuer Infektionsforschung Pol. di Milano Univ. of Newcastle	
14:20-14:40	WeB09.2	
<i>A Control Systems Approach to HIV Prevention with Impulsive Control Input (I)</i> , pp. 4912-4917.		
Chang, H.J. Moog, Claude Astolfi, Alessandro	Imperial Coll. London CNRS Imperial Coll. & Univ. of Rome	
14:40-15:00	WeB09.3	
<i>Stochastic Analysis of Genetic Feedback Circuit Controlling HIV Cell-Fate Decision (I)</i> , pp. 4918-4923.		
Singh, Abhyudai	Univ. of Delaware	
15:00-15:20	WeB09.4	
<i>A Compartment Based Model for the Formation of 2-LTR Circles after Raltegravir Intensification (I)</i> , pp. 4924-4929.		
Cardozo, E. Fabian Vargas, Cesar A. Zurakowski, Ryan	Univ. of Delaware Univ. Industrial de Santander Univ. of Delaware	
15:20-15:40	WeB09.5	
<i>Cost of Fairness in Disease Spread Control</i> , pp. 4930-4935.		
Vijayshankar, Arun Roy, Sandip	Washington State Univ. Washington State Univ.	
15:40-16:00	WeB09.6	
<i>Equilibrium and Stability Analysis of X-Chromosome Linked Recessive Diseases Model</i> , pp. 4936-4941.		
Del Vecchio, Carmen Glielmo, Luigi Corless, Martin J.	Univ. del Sannio Univ. del Sannio Purdue Univ.	

14:20-14:40	WeB12.2	
<i>Design of a Supervisory Integrated Control for Driver Assistance Systems (I)</i> , pp. 5022-5027.		
Gaspar, Peter Nemeth, Balazs Bokor, Jozsef	Hungarian Acad. of Sciences Budapesti Muszaki es Gazdasagtudomanyi Egyetem Hungarian Acad. of Sciences	
14:40-15:00	WeB12.3	
<i>Time-Based Switched Sliding Mode Control for Yaw Rate Regulation in Two-Wheeled Vehicles (I)</i> , pp. 5028-5033.		
Pisano, Alessandro Tanelli, Mara Ferrara, Antonella	Univ. of Cagliari Pol. di Milano Univ. of Pavia	
15:00-15:20	WeB12.4	
<i>Adaptive Vehicle Planar Motion Control with Fast Parameter Estimation (I)</i> , pp. 5034-5039.		
Huang, Xiaoyu Wang, Junmin	Ohio State Univ. Ohio State Univ.	
15:20-15:40	WeB12.5	
<i>A Numerical Algorithm for Nonlinear L2-Gain Optimal Control with Application to Vehicle Yaw Stability Control (I)</i> , pp. 5040-5045.		
Milic, Vladimir Di Cairano, Stefano Kasac, Josip Bemporad, Alberto Sutim, Zeljko	Univ. of Zagreb Mitsubishi Electric Res. Lab. Univ. of Zagreb IMT Inst. for Advanced Studies Lucca Univ. of Zagreb	
15:40-16:00	WeB12.6	
<i>New Paradigms for the Integration of Yaw Stability and Rollover Prevention Functions in Vehicle Stability Control (I)</i> , pp. 5046-5051.		
Rajamani, Rajesh Piyabongkarn, Damrongrit	Univ. of Minnesota Eaton Corp.	
WeB13		Ilma 1
Control of Micro and Nano Systems (Invited Session)		
Chair: Leang, Kam K. Co-Chair: Moheimani, S.O. Reza Organizer: Yong, Yuen Kuan Organizer: Leang, Kam K. Organizer: Moheimani, S.O. Reza	Univ. of Nevada, Reno Univ. of Newcastle Univ. of Newcastle Univ. of Nevada, Reno Univ. of Newcastle	
14:00-14:20	WeB13.1	
<i>Initial Resolution of Head Position and Skew Uncertainty in Control Systems for Flangeless Tape Drives (I)</i> , pp. 5052-5058.		
Cherubini, Giovanni Jelitto, Jens Pantazi, Angeliki	IBM IBM IBM	
14:20-14:40	WeB13.2	
<i>Improving Transient Performance of Signal Transformation Approach (I)</i> , pp. 5059-5064.		
Bazaei, Ali Moheimani, S.O. Reza	Univ. of Newcastle Univ. of Newcastle	
14:40-15:00	WeB13.3	
<i>Adaptive Control of a Nanopositioning Device (I)</i> , pp. 5065-5072.		
Eielsen, Arnfinn Aas Gravdahl, Jan Tommy	Norwegian Univ. of Science & Tech. Norwegian Univ. of Science & Tech.	
15:00-15:20	WeB13.4	
<i>Fast Scanning in AFM Using Non-Raster Sampling and Time-Optimal Trajectories (I)</i> , pp. 5073-5078.		
Huang, Peng Andersson, Sean	Boston Univ. Boston Univ.	
15:20-15:40	WeB13.5	
<i>A Dual-Stage Nanopositioning Approach to High-Speed Scanning Probe Microscopy (I)</i> , pp. 5079-5084.		
Tuma, Tomas Haebeler, Walter Rothuizen, Hugo Lygeros, John Pantazi, Angeliki Sebastian, Abu	IBM Res. IBM Res. IBM Res. ETH Zurich IBM Res. IBM Res.	
15:40-16:00	WeB13.6	
<i>Spatial-Temporal Control of Dual-Stage Nanopositioners (I)</i> , pp. 5085-5090.		
Clayton, Garrett Leang, Kam K.	Villanova Univ. Univ. of Nevada, Reno	
WeB14		Ilma 2
Optimization Algorithms II (Regular Session)		
Chair: Cenedese, Angelo Co-Chair: Xavier, Joao	Univ. of Padova Inst. Superior Tecnico	
14:00-14:20	WeB14.1	
<i>Optimal Contact Decisions for Ergodic Exploration</i> , pp. 5091-5097.		
Miller, Lauren Murphy, Todd	Northwestern Univ. Northwestern Univ.	
14:20-14:40	WeB14.2	
<i>The Convergence Rate of Newton-Raphson Consensus Optimization for Quadratic Cost Functions</i> , pp. 5098-5103.		
Zanella, Filippo Varagnolo, Damiano Cenedese, Angelo Pillonetto, Gianluigi Schenato, Luca	Univ. of Padova KTH Royal Inst. of Tech. Univ. of Padova Univ. of Padova Univ. of Padova	
14:40-15:00	WeB14.3	
<i>A Shahshahani Gradient Based Extremum Seeking Scheme</i> , pp. 5104-5109.		
Poveda, Jorge Quijano, Nicanor	Univ. de los Andes Univ. de los Andes	

15:00-15:20	WeB14.4
<i>Distributed ADMM for Model Predictive Control and Congestion Control, pp. 5110-5115.</i>	
Mota, João	Inst. Superior Técnico / Carnegie Mellon Univ.
Xavier, Joao	Inst. Superior Técnico
Aguiar, Pedro	Inst. Superior Técnico
Püscher, Markus	ETH Zurich
15:20-15:40	WeB14.5
<i>ADMM for Consensus on Colored Networks, pp. 5116-5121.</i>	
Mota, João	Inst. Superior Técnico / Carnegie Mellon Univ.
Xavier, Joao	Inst. Sistemas e Robotica - Inst. Superior Tecnico
Aguiar, Pedro	Inst. Superior Tecnico
Püscher, Markus	ETH Zurich
15:40-16:00	WeB14.6
<i>Motion Curve Optimization Algorithm Using Genetic Operations and Its Application to Bottling Machine, pp. 5122-5127.</i>	
Kanazawa, Ken'ichi	Mie Univ.
Yano, Kenichi	Mie Univ.
Nakada, Tatsuhiro	Shibuya Kogyo Co., Ltd
WeB15	
Linear Parameter-Varying Systems II (Regular Session)	
Chair: Barbosa, Karina	Univ. de Santiago de Chile
Co-Chair: Naso, David	Pol. di Bari
14:00-14:20	WeB15.1
<i>Output Synchronization of Linear Parameter-Varying Systems Via Dynamic Couplings, pp. 5128-5133.</i>	
Seyboth, Georg Sebastian	Univ. of Stuttgart
Schmidt, Gerd Simon	Univ. of Stuttgart
Allgower, Frank	Univ. of Stuttgart
14:20-14:40	WeB15.2
<i>Robust Stability of Discrete-Time Linear Descriptor Systems with Time-Varying Uncertainties Via Parametric Lyapunov Function, pp. 5134-5139.</i>	
Barbosa, Karina A.	Univ. de Santiago de Chile
de Souza, Carlos E.	LNCC
Coutinho, Daniel	Univ. Federal de Santa Catarina
14:40-15:00	WeB15.3
<i>Active Damping of Container Crane Load Swing by Hoisting Modulation — an LPV Approach, pp. 5140-5145.</i>	
Hoffmann, Christian	Hamburg Univ. of Tech.
Radisch, Christian	Hamburg Univ. of Tech.
Werner, Herbert	Hamburg Univ. of Tech.
15:00-15:20	WeB15.4
<i>Closed-Loop Stability and Performance Optimization in LPV Control Based on a Reduced Parameter Set, pp. 5146-5151.</i>	
Hoffmann, Christian	Hamburg Univ. of Tech.
Hashemi, Seyed Mahdi	Hamburg Univ. of Tech.
Abbas, Hossam Seddik	Assiut Uinveristy
Werner, Herbert	Hamburg Univ. of Tech.

15:20-15:40	WeB15.5
<i>Black-Box versus Grey-Box LPV Identification to Control a Mechanical System, pp. 5152-5157.</i>	
Paraiso Salah El-Dine, Christian	Hamburg Univ. of Tech.
Hashemi, Seyed Mahdi	Hamburg Univ. of Tech.
Werner, Herbert	Hamburg Univ. of Tech.
15:40-16:00	WeB15.6
<i>PID Control of Linear Systems with an Input Hysteresis Described by Prandtl-Ishlinskii Models, pp. 5158-5163.</i>	
Riccardi, Leonardo	Pol. di Bari
Naso, David	Pol. di Bari
Turchiano, Biagio	Pol. di bari
Janocha, Hartmut	Saarland Univ.
Schlüter, Kathrin	Tech. Univ. Braunschweig
WeB16	
Predictive Control of Linear Systems II (Regular Session)	
Chair: Borrelli, Francesco	University of California at Berkeley
Co-Chair: Maciejowski, Jan M.	Univ. of Cambridge
14:00-14:20	WeB16.1
<i>Model Predictive Control for Linear Impulsive Systems, pp. 5164-5169.</i>	
Sopasakis, Pantelis	National Tech. Univ. of Athens
Patrinos, Panagiotis	IMT Inst. for Advanced Studies Lucca
Sarimveis, Haralambos	National Tech. Univ. of Athens
Bemporad, Alberto	IMT Inst. for Advanced Studies Lucca
14:20-14:40	WeB16.2
<i>Optimal Constraint Tightening Policies for Robust Variable Horizon Model Predictive Control, pp. 5170-5175.</i>	
Shekhar, Rohan C.	Univ. of Melbourne
Maciejowski, Jan M.	Univ. of Cambridge
14:40-15:00	WeB16.3
<i>Offline Tube Design for Efficient Implementation of Parameterized Tube Model Predictive Control, pp. 5176-5181.</i>	
Rakovic, Sasa V.	Oxford Univ.
Muñoz-Carpintero, Diego	Oxford Univ.
Cannon, Mark	Oxford Univ.
Kouvaritakis, Basil	Oxford Univ.
15:00-15:20	WeB16.4
<i>An MPC Algorithm for Offset-Free Tracking of Constant Reference Signals, pp. 5182-5187.</i>	
Betti, Giulio	Pol. Di Milano
Farina, Marcello	Pol. di Milano
Scattolini, Riccardo	Pol. di Milano
15:20-15:40	WeB16.5
<i>Sufficient Conditions for Complexity Reduction in Min-Max Control of Constrained Uncertain Linear Systems, pp. 5188-5193.</i>	
Chuang, Frank Fu-Han	UC Berkeley
Borrelli, Francesco	UC Berkeley

15:40-16:00	WeB16.6	
<i>Scenario-Based Approach to Stochastic Linear Predictive Control</i> , pp. 5194-5199.		
Matusko, Jadranko Borrelli, Francesco	UC Berkeley UC Berkeley	
WeB17	Haleakala Ballroom 5	
Control of Nonlinear Delay Systems (Tutorial Session)		
Chair: Krstic, Miroslav Co-Chair: Bekiaris-Liberis, Nikolaos Organizer: Krstic, Miroslav Organizer: Bekiaris-Liberis, Nikolaos	Univ. of California, San Diego Univ. of California, San Diego Univ. of California, San Diego Univ. of California, San Diego	
14:00-15:20	WeB17.1	
<i>Control of Nonlinear Delay Systems: A Tutorial</i> (I), pp. 5200-5214.		
Krstic, Miroslav Bekiaris-Liberis, Nikolaos	Univ. of California, San Diego Univ. of California, San Diego	
15:20-16:00	WeB17.2	
<i>Control of Nonlinear Systems with State Delays and Robustness to Delay Perturbations</i> (I)*. 		
Bekiaris-Liberis, Nikolaos	Univ. of California, San Diego	
WeC01	Hibiscus 1	
Network Structure Identification (Invited Session)		
Chair: Varagnolo, Damiano Co-Chair: Johansson, Karl H. Organizer: Varagnolo, Damiano Organizer: Johansson, Karl H.	Univ. of Padova KTH Royal Inst. of Tech. KTH Royal Inst. of Tech. KTH Royal Inst. of Tech.	
16:30-16:50	WeC01.1	
<i>Fast Distributed Computation of Distances in Networks</i> (I), pp. 5215-5220.		
Baquero, Carlos Almeida, Paulo Sérgio Cunha, Alcino	HASLab / INESC TEC, Univ. do Minho HASLab / INESC TEC, Univ. do Minho HASLab / INESC TEC, Univ. do Minho	
16:50-17:10	WeC01.2	
<i>Distributed Size Estimation of Dynamic Anonymous Networks</i> (I), pp. 5221-5227.		
Terelius, Håkan Varagnolo, Damiano Johansson, Karl H.	KTH Royal Inst. of Tech. KTH Royal Inst. of Tech. KTH Royal Inst. of Tech.	
17:10-17:30	WeC01.3	
<i>Identification of Distributed Systems with Logical Interaction Structure</i> (I), pp. 5228-5233.		
Martini, Simone Fagiolini, Adriano Giarré, Laura Bicchi, Antonio	Univ. di Pisa Univ. di Pisa Univ. di Palermo Univ. di Pisa	
17:30-17:50	WeC01.4	
<i>On Size Estimation Protocols for Sensor Networks</i> (I), pp. 5234-5239.		
Cichon, Jacek, Bronislaw Lemiesz, Jakub Zawada, Marcin	Wroclaw Univ. of Tech. Wroclaw Univ. of Tech. Wroclaw Univ. of Tech.	
17:50-18:10	WeC01.5	
<i>On the Estimation Accuracy of Degree Distributions from Graph Sampling</i> (I), pp. 5240-5247.		
Ribeiro, Bruno Towsley, Don	Univ. of Massachusetts, Amherst Univ. of Massachusetts, Amherst	
18:10-18:30	WeC01.6	
<i>Clustering Large Networks of Parametric Dynamic Generative Models</i> , pp. 5248-5253.		
Xu, Yunwen Kim, Sanggyun Salapaka, Srinivas Beck, Carolyn L. Coleman, Todd	Univ. of Illinois at Urbana-Champaign Univ. of California, San Diego Univ. of Illinois, Urbana-Champaign Univ. of Illinois, Urbana-Champaign Univ. of California, San Diego	
WeC02	Hibiscus 2	
Machine Learning (Regular Session)		
Chair: Johansson, Rolf Co-Chair: Mcloone, Sean	Lund Univ. Queen's Univ. of Belfast	
16:30-16:50	WeC02.1	
<i>Learning from Time Series: Supervised Aggregative Feature Extraction</i> , pp. 5254-5259.		
Schirru, Andrea Susto, Gian Antonio Pampuri, Simone Mcloone, Sean	Univ. of Pavia Univ. of Padova Univ. of Pavia Queen's Univ. of Belfast	
16:50-17:10	WeC02.2	
<i>On the Estimation of Hyperparameters for Bayesian System Identification with Exponentially Decaying Kernels</i> , pp. 5260-5265.		
Carli, Francesca, P Chen, Tianshi Chiuso, Alessandro Ljung, Lennart Pillonetto, Gianluigi	Univ. of Padova Linköping Univ. Univ. of Padova Linkoping Univ. Univ. of Padova	
17:10-17:30	WeC02.3	
<i>Modelling and Control of Nonlinear Systems Using Gaussian Processes with Partial Model Information</i> , pp. 5266-5271.		
Hall, Joseph Alexander Rasmussen, Carl Edward Maciejowski, Jan M.	Univ. of Cambridge Univ. of Cambridge Univ. of Cambridge	
17:30-17:50	WeC02.4	
<i>Model Learning Actor-Critic Algorithms: Performance Evaluation in a Motion Control Task</i> , pp. 5272-5277.		
Grondman, Ivo Busoniu, Lucian Babuska, R.	Delft Univ. of Tech. Univ. of Lorraine Delft Univ. of Tech.	

17:50-18:10	WeC02.5	
<i>Receding Horizon Prediction by Bayesian Combination of Multiple Predictors</i> , pp. 5278-5285.		
Stahl, Fredrik	Lund Univ.	
Johansson, Rolf	Lund Univ.	
18:10-18:30	WeC02.6	
<i>DrSVM: Distributed Random Projection Algorithms for SVMs</i> , pp. 5286-5291.		
Lee, Soomin	Univ. of Illinois, Urbana-Champaign	
Nedich, Angelia	Univ. of Illinois, Urbana-Champaign	
WeC03	Hibiscus 3	
Cooperative Control III (Regular Session)		
Chair: Saberi, Ali	Washington State Univ.	
Co-Chair: Gasparri, Andrea	Univ. "Roma Tre"	
16:30-16:50	WeC03.1	
<i>Formation Control of Directed Multi-Agent Networks Based on Complex Laplacian</i> , pp. 5292-5297.		
Wang, Lili	Zhejiang Univ.	
Han, Zhimin	Zhejiang Univ.	
Lin, Zhiyun	Zhejiang Univ.	
16:50-17:10	WeC03.2	
<i>Semi-Global Regulation of Output Synchronization for Heterogeneous Networks of Non-Introspective, Invertible Agents Subject to Actuator Saturation</i> , pp. 5298-5303.		
Yang, Tao	KTH Royal Inst. of Tech.	
Stoorvogel, Anton A.	Univ. of Twente	
Grip, Håvard Fjær	Washington State Univ.	
Saberi, Ali	Washington State Univ.	
17:10-17:30	WeC03.3	
<i>Decentralized Estimation of the Minimum Strongly Connected Subdigraph for Robotic Networks with Limited Field of View</i> , pp. 5304-5309.		
Ardito, Cosimo Federico	Univ. "Roma Tre"	
Di Paola, Donato	National Res.Council (CNR)	
Gasparri, Andrea	Univ. "Roma Tre"	
17:30-17:50	WeC03.4	
<i>Decentralized Control of Parallel Rigid Formations with Direction Constraints and Bearing Measurements</i> , pp. 5310-5317.		
Franchi, Antonio	Max Planck Inst. for Biological Cybernetics	
Robuffo Giordano, Paolo	Max Planck Inst. for Biological Cybernetics	
17:50-18:10	WeC03.5	
<i>Consensus in the Network with Uniform Constant Communication Delay</i> , pp. 5318-5323.		
Wang, Xu	New York Univ.	
Saberi, Ali	Washington State Univ.	
Stoorvogel, Anton A.	Univ. of Twente	
Grip, Håvard Fjær	Washington State Univ.	
Yang, Tao	Washington State Univ.	
18:10-18:30	WeC03.6	
<i>Consensus Tracking for General Linear Dynamical Target Via Periodic Sensing</i> , pp. 5324-5329.		
Zhang, Ya	Southeast Univ.	
Tian, Yu-Ping	Southeast Univ.	
WeC04	Plumeria 1	
Stochastic Analysis and Inference of Biochemical Processes (Invited Session)		
Chair: Singh, Abhyudai	Univ. of Delaware	
Co-Chair: Munsky, Brian	Los Alamos National Lab.	
Organizer: Singh, Abhyudai	Univ. of Delaware	
Organizer: Munsky, Brian	Los Alamos National Lab.	
16:30-16:50	WeC04.1	
<i>Measuring the Degree of Modularity in Gene Regulatory Networks from the Relaxation of Finite Perturbations (I)</i> , pp. 5330-5335.		
Kim, Kyung Hyuk	Univ. of Washington	
Sauro, Herbert	Univ. of Washington	
16:50-17:10	WeC04.2	
<i>Optimal Variational Perturbations for the Inference of Stochastic Reaction Dynamics (I)</i> , pp. 5336-5341.		
Zechner, Christoph	ETH Zurich	
Nandy, Preetam	ETH Zurich	
Unger, Michael	ETH Zurich	
Koeppl, Heinz	ETH Zurich	
17:10-17:30	WeC04.3	
<i>Quantifying Stochasticity in Gene-Expression with Extrinsic Parameter Fluctuations (I)</i> , pp. 5342-5347.		
Singh, Abhyudai	Univ. of Delaware	
17:30-17:50	WeC04.4	
<i>A Non-Memoryless Stochastic Simulation Algorithm for Modeling Diffusion-Reactions on Biological Membranes (I)</i> , pp. 5348-5353.		
Chevalier, Michael	Univ. of California, San Francisco	
El-samad, Hana	Univ. of California, San Francisco	
17:50-18:10	WeC04.5	
<i>A Spectral Methods-Based Solution of the Chemical Master Equation for Gene Regulatory Networks (I)</i> , pp. 5354-5360.		
Nip, Michael	Univ. of California, Santa Barbara	
Hespanha, Joao P.	Univ. of California, Santa Barbara	
Khammash, Mustafa H.	ETH Zurich	
18:10-18:30	WeC04.6	
<i>Adaptive Coarse-Graining for Transient and Quasi-Equilibrium Analyses of Stochastic Gene Regulation (I)</i> , pp. 5361-5366.		
Tapia, Jose Juan	Univ. of Pittsburgh	
Faeder, James	Univ. of Pittsburgh	
Munsky, Brian	Los Alamos National Lab.	
WeC05	Plumeria 2	
Neural Networks: Theory and Applications (Regular Session)		
Chair: Jagannathan, Sarangapani	Missouri Univ. of Science & Tech.	
Co-Chair: Marconi, Lorenzo	Univ. di Bologna	

16:30-16:50	WeC05.1
<i>Neural-Adaptive Control of Waste-To-Energy Boilers</i> , pp. 5367-5373.	
Mahmoodi Takaghaj, Sanaz Macnab, Chris Westwick, David Boiko, Igor	Univ. of Calgary Univ. of Calgary Univ. of Calgary Univ. of Calgary
16:50-17:10	WeC05.2
<i>Neural Network Based Adaptive Dynamic Surface Control for Flight Path Angle</i> , pp. 5374-5379.	
Guo, Yi Liu, Jinkun	Beihang Univ. Beihang Univ.
17:10-17:30	WeC05.3
<i>A Hybrid System for a Class of Hysteresis Nonlinearity: Modeling and Compensation</i> , pp. 5380-5385.	
Al Janaideh, Mohammad Naldi, Roberto Marconi, Lorenzo Krejci, Pavel	Univ. of Jordan Univ. di Bologna Univ. di Bologna Acad. of Sciences of the Czech Republic
17:30-17:50	WeC05.4
<i>A New Stability Criterion of Stochastic Neural Networks with Delays</i> , pp. 5386-5391.	
Chen, Yun Zheng, Wei Xing	Hangzhou Dianzi Univ. Univ. of Western Sydney
17:50-18:10	WeC05.5
<i>A Self-Tuning Optimal Controller for Affine Nonlinear Continuous-Time Systems with Unknown Internal Dynamics</i> , pp. 5392-5397.	
Dierks, Travis Jagannathan, Sarangapani	DRS Sustainment Systems, Inc. Missouri Univ. of Science & Tech.
18:10-18:30	WeC05.6
<i>Stable PID Control for Robot Manipulators with Neural Compensation</i> , pp. 5398-5403.	
Yu, Wen Li, Xiaouu	CINVESTAV-IPN CINVESTAV-IPN
WeC06 Plumeria 3	
Adaptive Control III (Regular Session)	
Chair: Tomei, Patrizio Co-Chair: Solo, Victor	Univ. of Roma Tor Vergata Univ. of New South Wales
16:30-16:50	WeC06.1
<i>Output Regulation for Linear Systems with Unknown Exosystem Order</i> , pp. 5404-5409.	
Marino, Riccardo Tomei, Patrizio	Univ. of Roma Tor Vergata Univ. of Roma Tor Vergata
16:50-17:10	WeC06.2
<i>NN-Based Asymptotic Tracking Control for a Class of Strict-Feedback Uncertain Nonlinear Systems with Output Constraints</i> , pp. 5410-5415.	
Meng, Wenchao Yang, Qinmin Sun, Youxian	Zhejiang Univ. Zhejiang Univ. Zhejiang Univ.
17:10-17:30	WeC06.3
<i>Stability Margins in Adaptive Mixing Control Via a Lyapunov-Based Switching Criterion</i> , pp. 5416-5421.	
Baldi, Simone Ioannou, Petros A.	Univ. di Firenze Univ. of Southern California
17:30-17:50	WeC06.4
<i>Adaptive Control of Piecewise Linear Systems with Output Feedback for Output Tracking</i> , pp. 5422-5427.	
Sang, Qian Tao, Gang	Univ. of Virginia Univ. of Virginia
17:50-18:10	WeC06.5
<i>Adaptive Estimation of Stochastic Differential Games</i> , pp. 5428-5433.	
Solo, Victor	Univ. of New South Wales
18:10-18:30	WeC06.6
<i>Adaptive Predictive Control System Design with an Adaptive Output Estimator</i> , pp. 5434-5441.	
Mizumoto, Ikuro Fujimoto, Yotaro	Kumamoto Univ. Kumamoto Univ.
WeC07 Maile 1	
Distributed Optimization and Control II (Invited Session)	
Chair: Ozdaglar, Asu Co-Chair: Jadbabaie, Ali Organizer: Wei, Ermin Organizer: Ozdaglar, Asu Organizer: Jadbabaie, Ali	MIT Univ. of Pennsylvania MIT MIT Univ. of Pennsylvania
16:30-16:50	WeC07.1
<i>Randomized Smoothing for (Parallel) Stochastic Optimization (I)</i> , pp. 5442-5444.	
Duchi, John Bartlett, Peter L. Wainwright, Martin	Univ. of California, Berkeley Australian National Univ. Univ. of California, Berkeley
16:50-17:10	WeC07.2
<i>Distributed Alternating Direction Method of Multipliers (I)</i> , pp. 5445-5450.	
Wei, Ermin Ozdaglar, Asu	MIT MIT
17:10-17:30	WeC07.3
<i>Distributed Delayed Stochastic Optimization (I)</i> , pp. 5451-5452.	
Agarwal, Alekh Duchi, John	Microsoft Res. Univ. of California, Berkeley
17:30-17:50	WeC07.4
<i>Push-Sum Distributed Dual Averaging for Convex Optimization (I)</i> , pp. 5453-5458.	
Tsianos, Konstantinos Lawlor, Sean Rabbat, Michael	McGill Univ. McGill Univ. McGill Univ.

17:50-18:10	WeC07.5
<i>Distributed Nesterov-Like Gradient Algorithms (I)</i> , pp. 5459-5464.	
Jakovetic, Dusan	Carnegie Mellon Univ./Inst. Superior Tecnico
Moura, Jose' M. F.	Carnegie Mellon Univ.
Xavier, Joao	Inst. Superior Tecnico
18:10-18:30	WeC07.6
<i>Parameterization of All Distributed Controllers Based on Gradient-Flow Method for Networked Multi-Agent Systems</i> , pp. 5465-5470.	
Sakurama, Kazunori	Tottori Univ.
Azuma, Shun-ichi	Kyoto Univ.
Sugie, Toshiharu	Kyoto Univ.
WeC08	Maile 2
Sliding Mode in Hybrid and Impulsive Systems (Invited Session)	
Chair: Spurgeon, Sarah K.	Univ. of Kent
Co-Chair: Pisano, Alessandro	Univ. of Cagliari
Organizer: Floquet, Thierry	CNRS
Organizer: Pisano, Alessandro	Univ. of Cagliari
16:30-16:50	WeC08.1
<i>Finite Time Tracking of Unilaterally Constrained Planar Systems with Pre-Specified Settling Time: Second Order Sliding Mode Synthesis and Chattering-Free Digital Implementation (I)</i> , pp. 5471-5476.	
Oza, Harshal	Univ. of Kent
Acary, Vincent	INRIA Rhone-Alpes
Orlov, Yury	CICESE
Spurgeon, Sarah K.	Univ. of Kent
Brogliato, Bernard	INRIA
16:50-17:10	WeC08.2
<i>Lyapunov Stability of a Hybrid Impulsive-Sliding Mode Adaptive Controller for Second Order System (I)</i> , pp. 5477-5481.	
Glumineau, Alain	Ec. Centrale Nantes
Shtessel, Yuri B.	Univ. of Alabama, Huntsville
Plestan, Franck	Ec. Centrale de Nantes
17:10-17:30	WeC08.3
<i>Second Order Sliding Mode Output Feedback Control: Impulsive Gain and Extension with Adaptation (I)</i> , pp. 5482-5487.	
Estrada, Antonio	Ec. Centrale de Nantes
Plestan, Franck	Ec. Centrale de Nantes
17:30-17:50	WeC08.4
<i>A Switched Second-Order Sliding Mode Control Algorithm for Non-Affine Systems with Saturation (I)</i> , pp. 5488-5493.	
Tanelli, Mara	Pol. di Milano
Punta, Elisabetta	National Res. Council of Italy
Ferrara, Antonella	Univ. of Pavia
17:50-18:10	WeC08.5
<i>HOSM Control under Quantization and Saturation Constraints: Zig-Zag Design Solutions (I)</i> , pp. 5494-5498.	
Amet, Leonardo	ENSEA
Ghanes, Malek	ENSEA
Barbot, Jean Pierre	ENSEA

18:10-18:30	WeC08.6
<i>State Estimation for Linear Switched Systems with Unstable Invariant Zeros and Unknown Inputs (I)</i> , pp. 5499-5504.	
Rios, Héctor	National Autonomous Univ. of Mexico
Davila, Jorge	National Pol. Inst.
Fridman, Leonid M.	National Autonomous Univ. of Mexico
Efimov, Denis	INRIA - LNE
WeC09	Maile 3
Robustness and Adaptation in Biomolecular Networks (Invited Session)	
Chair: Franco, Elisa	Univ. of California at Riverside
Co-Chair: Hamadeh, Abdullah Omar	Univ. of Waterloo
Organizer: Franco, Elisa	Univ. of California at Riverside
Organizer: Hamadeh, Abdullah Omar	Univ. of Waterloo
16:30-16:50	WeC09.1
<i>Determining the Structural Properties of a Class of Biological Models (I)</i> , pp. 5505-5510.	
Blanchini, Franco	Univ. degli Studi di Udine
Franco, Elisa	Univ. of California at Riverside
Giordano, Giulia	Univ. degli Studi di Udine
16:50-17:10	WeC09.2
<i>Exploring the Scale Invariance Property in Enzymatic Networks (I)</i> , pp. 5511-5516.	
Skataric, Maja	Rutgers Univ.
Sontag, Eduardo D.	Rutgers Univ.
17:10-17:30	WeC09.3
<i>Network-Level Dynamics of Diffusively Coupled Cells (I)</i> , pp. 5517-5522.	
Waldherr, Steffen	Univ. of Stuttgart
Allgower, Frank	Univ. of Stuttgart
17:30-17:50	WeC09.4
<i>Fold-Change Detection As a Chemotaxis Model Discrimination Tool (I)</i> , pp. 5523-5527.	
Hamadeh, Abdullah Omar	Univ. of Waterloo
Ingalls, Brian P.	Univ. of Waterloo
Sontag, Eduardo D.	Rutgers Univ.
17:50-18:10	WeC09.5
<i>Quantifying Crosstalk in Biochemical Systems (I)</i> , pp. 5528-5535.	
Yeung, Enoch	California Inst. of Tech.
Kim, Jongmin	California Inst. of Tech.
Yuan, Ye	Univ. of Cambridge
Goncalves, Jorge M.	Univ. of Cambridge
Murray, Richard M.	California Inst. of Tech.
18:10-18:30	WeC09.6
<i>Performance Metrics for a Biomolecular Step Response</i> , pp. 5536-5541.	
Sen, Shaunak	Indian Inst. of Tech. Delhi
Murray, Richard M.	California Inst. of Tech.

WeC10	Pikake 1	
Modeling (Regular Session)		
Chair: Bhattacharya, Raktim	Texas A&M	
Co-Chair: Tabuada, Paulo	Univ. of California at Los Angeles	
16:30-16:50	WeC10.1	
<i>Further Results on Probabilistic Model Validation in Wasserstein Metric, pp. 5542-5547.</i>		
Halder, Abhishek	Texas A&M Univ.	
Bhattacharya, Raktim	Texas A&M Univ.	
16:50-17:10	WeC10.2	
<i>One-Dimensional Heat Diffusion Modelling and Random Walks on Non-Uniform Grids, pp. 5548-5553.</i>		
Frannek, Lukas	Tokyo Inst. of Tech.	
Hayakawa, Tomohisa	Tokyo Inst. of Tech.	
Cetinkaya, Ahmet	Tokyo Inst. of Tech.	
17:10-17:30	WeC10.3	
<i>Kron Reduction of Power Networks with Lossy and Dynamic Transmission Lines, pp. 5554-5559.</i>		
Caliskan, Sina Yamac	Univ. of California at Los Angeles	
Tabuada, Paulo	Univ. of California at Los Angeles	
17:30-17:50	WeC10.4	
<i>Multiobjective Optimization of Hydrocarbon Biorefinery Supply Chain Designs under Uncertainty, pp. 5560-5565.</i>		
Gebreslassie, Berhane	Northwestern Univ.	
Yao, Yuan	Northwestern Univ.	
You, Fengqi	Northwestern Univ.	
17:50-18:10	WeC10.5	
<i>Pattern Recognition: An Alternative to Dynamics Description, pp. 5566-5571.</i>		
Xu, Zhengguang	Univ. of Science and Tech. Beijing	
Wu, Jinxia	Univ. of Science and Tech. Beijing	
18:10-18:30	WeC10.6	
<i>Global Projections for Variational Nonsmooth Mechanics, pp. 5572-5579.</i>		
Pekarek, David	Northwestern Univ.	
Murphrey, Todd	Northwestern Univ.	
WeC11	Pikake 2	
The Role of Systems and Control in Smart Grid II (Invited Session)		
Chair: Annaswamy, Anuradha	Massachusetts Inst. of Tech.	
Co-Chair: Stoustrup, Jakob	Aalborg Univ.	
Organizer: Annaswamy, Anuradha	Massachusetts Inst. of Tech.	
Organizer: Meyn, Sean	Univ. of Florida	
Organizer: Stoustrup, Jakob	Aalborg Univ.	
Organizer: Barooah, Prabir	Univ. of Florida	
Organizer: Kalsi, Karanjit	Pacific Northwest National Lab.	
16:30-16:50	WeC11.1	
<i>On Global Solution to a Class of Smart Building-Grid Energy Management Models (I), pp. 5580-5585.</i>		
Motto, Alexis L.	Siemens Corp. Res.	
Sun, Yu	Univ. of Illinois, Urbana-Champaign	
Chakraborty, Amit	Siemens Corp. Res.	
16:50-17:10	WeC11.2	
<i>Evaluation of the Performance of Indirect Control of Many DSRs Using Hardware-In-The-Loop Simulations (I), pp. 5586-5591.</i>		
Sossan, Fabrizio	DTU	
Bindner, Henrik	DTU	
17:10-17:30	WeC11.3	
<i>Reduced-Order Modeling of Aggregated Thermostatic Loads with Demand Response (I), pp. 5592-5597.</i>		
Zhang, Wei	Ohio State Univ.	
Lian, Jianming	Pacific Northwest National Lab.	
Chang, Chin-Yao	Ohio State Univ.	
Kalsi, Karanjit	Pacific Northwest National Lab.	
Sun, Yannan	Pacific Northwest National Lab.	
17:30-17:50	WeC11.4	
<i>Hysteresis-Based Charging Control of Plug-In Electric Vehicles (I), pp. 5598-5604.</i>		
Kundu, Soumya	Univ. of Michigan	
Hisken, Ian A.	Univ. of Michigan	
17:50-18:10	WeC11.5	
<i>Optimal Placement of Energy Storage in the Grid (I), pp. 5605-5612.</i>		
Bose, Subhomesh	California Inst. of Tech.	
Gayme, Dennice	Johns Hopkins Univ.	
Topcu, Ufuk	California Inst. of Tech.	
Chandy, K. Mani	California Inst. of Tech.	
18:10-18:30	WeC11.6	
<i>DistFlow ODE: Modeling, Analyzing and Controlling Long Distribution Feeder (I), pp. 5613-5618.</i>		
Wang, Danhua	SMU	
Turitsyn, Konstantin	Massachusetts Inst. of Tech.	
Chertkov, Michael	Los Alamos National Lab.	
WeC12	Pikake 3	
Vehicle Motion: Estimation and Control (Regular Session)		
Chair: Maggiore, Manfredi	Univ. of Toronto	
Co-Chair: Aguiar, A. Pedro	Inst. Superior Técnico	
16:30-16:50	WeC12.1	
<i>Hierarchical Control for Path Tracking of Autonomous Vehicles, pp. 5619-5624.</i>		
Chen, Changfang	Beihang Univ.	
Jia, Yingmin	Beihang Univ.	
Du, Junping	Beijing Univ. of Posts and Telecommunications	
Zhang, Jun	Beihang Univ.	
16:50-17:10	WeC12.2	
<i>Trajectory Optimization for Vehicles in a Constrained Environment, pp. 5625-5630.</i>		
Bayer, Florian Anton	Univ. of Stuttgart	
Hauser, John	Univ. of Colorado, Boulder	
17:10-17:30	WeC12.3	
<i>Position Control for a Class of Vehicles in SE(3), pp. 5631-5636.</i>		
Roza, Ashton	Univ. of Toronto	
Maggiore, Manfredi	Univ. of Toronto	

17:30-17:50	WeC12.4	
<i>Constrained Motion Planning for Multiple Vehicles on SE(3), pp. 5637-5642.</i>		
Saccon, Alessandro Aguiar, A. Pedro Häusler, Andreas Johannes Hauser, John Pascoal, Antonio Manuel	Inst. Superior Técnico Inst. Superior Técnico Inst. Superior Técnico Univ. of Colorado at Boulder Inst. Superior Técnico	
17:50-18:10	WeC12.5	
<i>Extended Kalman Filter for Vehicle Tracking Using Road Surface Vibration Measurements, pp. 5643-5648.</i>		
Hostettler, Roland Birk, Wolfgang Lundberg, Magnus	Luleå Univ. of Tech. Luleå Univ. of Tech. Lulea Univ. of Tech.	
18:10-18:30	WeC12.6	
<i>Driver/vehicle Response Diagnostic System for Vehicle Following Based on Gaussian Mixture Model, pp. 5649-5654.</i>		
Butakov, Vadim Ioannou, Petros A. Tippelhofer, Mario Camhi, Jaime	Univ. of Southern California Univ. of Southern California Volkswagen Group of America Volkswagen Group of America	
WeC13	Ilima 1	
Visual Servo Control (Regular Session)		
Chair: Espinoza Quesada, Eduardo Steed Co-Chair: Hatanaka, Takeshi	LAFMIA-UMI-CINVESTAV Tokyo Inst. of Tech.	
16:30-16:50	WeC13.1	
<i>Passivity-Based Visual Pose Regulation for a Moving Target Object in Three Dimensions: Structure Design and Convergence Analysis, pp. 5655-5660.</i>		
Ibuki, Tatsuya Hatanaka, Takeshi Fujita, Masayuki	Tokyo Inst. of Tech. Tokyo Inst. of Tech. Tokyo Inst. of Tech.	
16:50-17:10	WeC13.2	
<i>A Port-Hamiltonian Approach to Visual Servo Control of a Pick and Place System, pp. 5661-5666.</i>		
Dirksz, Daniel A. Scherpen, Jacquelin M.A.	Eindhoven Univ. of Tech. Univ. of Groningen	
17:10-17:30	WeC13.3	
<i>Controller's Parameters Tuning in Presence of Time-Delay Measurements: An Application to Vision-Based Quad-Rotor Navigation, pp. 5667-5672.</i>		
Garcia Carrillo, Luis Rodolfo Espinoza Quesada, Eduardo Steed Mondié, Sabine	Univ. of California, Santa Barbara LAFMIA-UMI-CINVESTAV CINVESTAV-IPN	
17:30-17:50	WeC13.4	
<i>A Transformation of the Position Based Visual Servoing Problem into a Convex Optimization Problem, pp. 5673-5678.</i>		
Wang, Yuquan Thunberg, Anders, Johan Hu, Xiaoming	KTH Royal Inst. of Tech. KTH Royal Inst. of Tech. KTH Royal Inst. of Tech.	
17:50-18:10	WeC13.5	
<i>Kalman Filter-Based Tracking of Multiple Similar Objects from a Moving Camera Platform, pp. 5679-5684.</i>		
Miller, Cory Allik, Bethany Ilg, Mark Zurakowski, Ryan	Univ. of Delaware Univ. of Deleware US Army Res. Lab. Univ. of Delaware	
18:10-18:30	WeC13.6	
<i>Stability Analysis of Non-Vector Space Control Via Compressive Feedbacks, pp. 5685-5690.</i>		
Zhao, Jianguo Xi, Ning Sun, Liang Song, Bo	Michigan State Univ. Michigan State Univ. Michigan State Univ. Michigan State Univ.	
WeC14	Ilima 2	
Optimization Algorithms III (Regular Session)		
Chair: Giglio, Davide Co-Chair: Frazzoli, Emilio	Univ. of Genova Massachusetts Inst. of Tech.	
16:30-16:50	WeC14.1	
<i>Models and Efficient Algorithms for Pickup and Delivery Problems on Roadmaps, pp. 5691-5698.</i>		
Treleaven, Kyle Pavone, Marco Frazzoli, Emilio	Massachusetts Inst. of Tech. Stanford Univ. Massachusetts Inst. of Tech.	
16:50-17:10	WeC14.2	
<i>Hybrid Multiagent Swarm Optimization: Algorithms, Evaluation, and Application, pp. 5699-5704.</i>		
Zhang, Haopeng Hui, Qing	Texas Tech. Univ. Texas Tech. Univ.	
17:10-17:30	WeC14.3	
<i>Model Predictive Control for Optimal Portfolios with Cointegrated Pairs of Stocks, pp. 5705-5710.</i>		
Yamada, Yuji Primbs, James A.	Univ. of Tsukuba Stanford Univ.	
17:30-17:50	WeC14.4	
<i>Solving Multiobjective Optimal Control Problems in Space Mission Design Using Discrete Mechanics and Reference Point Techniques, pp. 5711-5716.</i>		
Ober-Blöbaum, Sina Ringkamp, Maik zum Felde, Garlef	Univ. of Paderborn Univ. of Erlangen-Nuremberg Univ. of Paderborn	
17:50-18:10	WeC14.5	
<i>Finite-Horizon LQ Control for Unknown Discrete-Time Linear Systems Via Extremum Seeking, pp. 5717-5722.</i>		
Frihauf, Paul Krstic, Miroslav Basar, Tamer	Univ. of California, San Diego Univ. of California, San Diego Univ. of Illinois, Urbana-Champaign	
18:10-18:30	WeC14.6	
<i>A New Result to Generalize and Extend a Single Machine Scheduling Problem Solved by Dynamic Programming, pp. 5723-5730.</i>		
Giglio, Davide	Univ. of Genova	

WeC15	Ilima 3
Time-Varying Systems (Regular Session)	
Chair: Campbell, Stephen L	North Carolina State Univ.
Co-Chair: Bonilla, Moises E.	CINVESTAV-IPN
16:30-16:50	WeC15.1
<i>Input-Output Finite-Time Stabilization with Constrained Control Inputs, pp. 5731-5736.</i>	
Amato, Francesco	Univ. Magna Graecia di Catanzaro
Carannante, Giuseppe	Univ. degli Studi di Napoli Federico II
De Tommasi, Gianmaria	Univ. degli Studi di Napoli Federico II
Pironti, Alfredo	Univ. degli Studi di Napoli Federico II
16:50-17:10	WeC15.2
<i>Stability Analysis for Distributed-Parameter Systems Interconnected Via Feedback Channels with Time-Varying Delay, pp. 5737-5742.</i>	
Cantoni, Michael	Univ. of Melbourne
Kao, Chung-Yao	National Sun Yat-Sen Univ.
17:10-17:30	WeC15.3
<i>Singularly Perturbed Implicit Control Law for Linear Time Varying MIMO Systems, pp. 5743-5748.</i>	
Puga, S. A.	Acad. de Sistemas, UPIITA-IPN.
Bonilla, Moises E.	CINVESTAV-IPN
Malabre, Michel	CNRS
17:30-17:50	WeC15.4
<i>Constructing Observers for Linear Time Varying DAEs, pp. 5749-5754.</i>	
Bobinyec, Karen	North Carolina State Univ.
Campbell, Stephen L	North Carolina State Univ.
Kunkel, Peter	Leipzig Univ.
17:50-18:10	WeC15.5
<i>Chang Transformation for Decoupling of Singularly Perturbed Linear Slowly Time-Varying Systems, pp. 5755-5760.</i>	
Yang, Xiaojing	Ohio Univ.
Zhu, J. Jim	Ohio Univ.
18:10-18:30	WeC15.6
<i>Stabilizing Controllers for Multi-Input, Singular Control Gain Systems, pp. 5761-5767.</i>	
Srikant, Sukumar	Indian Inst. of Tech. Bombay
Akella, Maruthi	Univ. of Texas, Austin
WeC16	Haleakala Ballroom 3
Game Theoretic Coordination (Invited Session)	
Chair: Zhu, Minghui	Massachusetts Inst. of Tech.
Co-Chair: Savla, Ketan	Massachusetts Inst. of Tech.
Organizer: Zhu, Minghui	Massachusetts Inst. of Tech.
Organizer: Savla, Ketan	Univ. of Southern California
16:30-16:50	WeC16.1
<i>Emergence of Coalitions in Mean Field Stochastic Systems (I), pp. 5768-5773.</i>	
Kizilkale, Arman C.	McGill Univ.
Caines, Peter E.	McGill Univ.
16:50-17:10	WeC16.2
<i>Multi-Layer Hierarchical Approach to Double Sided Jamming Games among Teams of Mobile Agents (I), pp. 5774-5779.</i>	
Bhattacharya, Sourabh	Univ. of Illinois, Urbana-Champaign
Basar, Tamer	Univ. of Illinois, Urbana-Champaign
17:10-17:30	WeC16.3
<i>Empirical Evidence Equilibria in Stochastic Games (I), pp. 5780-5785.</i>	
Dudebout, Nicolas	Georgia Inst. of Tech.
Shamma, Jeff S.	Georgia Inst. of Tech.
17:30-17:50	WeC16.4
<i>Distributed Convergence to Nash Equilibria by Adversarial Networks with Directed Topologies (I), pp. 5786-5791.</i>	
Gharesifard, Bahman	Univ. of Illinois, Urbana-Champaign
Cortes, Jorge	Univ. of California, San Diego
17:50-18:10	WeC16.5
<i>Mean Field LQG Games with Mass Behavior Responsive to a Major Player (I), pp. 5792-5797.</i>	
Nguyen, Son	Carleton Univ.
Huang, Minyi	Carleton Univ.
18:10-18:30	WeC16.6
<i>On Competitive Search Games for Multiple Vehicles (I), pp. 5798-5803.</i>	
Zhu, Minghui	Massachusetts Inst. of Tech.
Frazzoli, Emilio	Massachusetts Inst. of Tech.
WeC17	Haleakala Ballroom 5
Discrete Event Systems (Regular Session)	
Chair: van den Boom, Ton J.	Delft Univ. of Tech.
J.	
Co-Chair: Markovski, Jasen	Eindhoven Univ. of Tech.
16:30-16:50	WeC17.1
<i>Process Theory for Supervisory Control with Partial Observation of Events and States, pp. 5804-5809.</i>	
Markovski, Jasen	Eindhoven Univ. of Tech.
16:50-17:10	WeC17.2
<i>On the Synchronization of Cyclic Discrete-Event Systems, pp. 5810-5815.</i>	
Lopes, Gabriel	Delft Univ. of Tech.
De Schutter, Bart	Delft Univ. of Tech.
van den Boom, Ton J. J.	Delft Univ. of Tech.
17:10-17:30	WeC17.3
<i>Determination of Timed Transitions in Identified Discrete-Event Models for Fault Detection, pp. 5816-5821.</i>	
Schneider, Stefan	Univ. of Kaiserslautern
Litz, Lothar	Univ. of Kaiserslautern
Lesage, Jean-jacques	Ens Cachan
17:30-17:50	WeC17.4
<i>Supervisor Localization of Discrete-Event Systems Based on State Tree Structures, pp. 5822-5827.</i>	
Cai, Kai	Univ. of Toronto
Wonham, W. Murray	Univ. of Toronto

17:50-18:10 WeC17.5

Bounded State Space Truncation and Censored Markov Chains, pp. 5828-5833.

Basic, Ana	INRIA and École normale supérieure
Djafri, Hilal	ENS Cachan
Fournieau, Jean-Michel	Univ. of Versailles

18:10-18:30 WeC17.6

Distributed Frequency Control by Means of Responsive Wind Generation, pp. 5834-5839.

Angeli, David	Imperial Coll. London
De Paola, Antonio	Imperial Coll. London
Strbac, Goran	Imperial Coll. London

Technical Program for Thursday December 13, 2012

ThPL	Haleakala Ballroom
Highly Agile and Robust Robotic Bipedal Locomotion through Nonlinear Geometric Control (Bode Lecture) (Plenary Session)	
Chair: Middleton, Richard H.	Univ. of Newcastle
Co-Chair: Cassandras, Christos G.	Boston Univ.
08:30-09:30	ThPL.1
<i>Highly Agile and Robust Robotic Bipedal Locomotion through Nonlinear Geometric Control*. PDE</i>	
Grizzle, Jessy W.	Univ. of Michigan
ThA01	Hibiscus 1
Communication Networks (Regular Session)	
Chair: Altafini, Claudio	SISSA International School For Advanced Studies
Co-Chair: Fischione, Carlo	KTH Royal Inst. of Tech.
10:00-10:20	ThA01.1
<i>Approximate Augmented Lagrangians for Distributed Network Optimization</i> , pp. 5840-5845.	
Chatzipanagiotis, Nikolaos	Duke Univ.
Dentcheva, Darinka	Stevens Inst. of Tech.
Zavlanos, Michael M.	Duke Univ.
10:20-10:40	ThA01.2
<i>Electricity Markets Meet the Home through Demand Response</i> , pp. 5846-5851.	
Gkatzikis, Lazaros	Univ. of Thessaly, CERTH
Salonidis, Theodoros	Tech. Paris Res. Lab.
Hegde, Nidhi	Technicolor
Massoulie, Laurent	Thomson Tech.
10:40-11:00	ThA01.3
<i>Delay-Aware BS-DTX Control and User Scheduling for Energy Harvesting Downlink Coordinated MIMO Systems</i> , pp. 5852-5857.	
Cui, Ying	Hong Kong Univ. of Science and Tech.
Lau, Vincent K. N.	Hong Kong Univ. of Science and Tech.
11:00-11:20	ThA01.4
<i>Maximizing System Throughput Using Cooperative Sensing in Multi-Channel Cognitive Radio Networks</i> , pp. 5858-5863.	
Li, Shuang	Ohio State Univ.
Zheng, Zizhan	Ohio State Univ.
Ekici, Eylem	Ohio State Univ.
Shroff, Ness B.	Ohio State Univ.
11:20-11:40	ThA01.5
<i>Delay Distribution Analysis of Wireless Personal Area Networks</i> , pp. 5864-5869.	
Park, Pangun	KTH Royal Inst. of Tech.
Di Marco, Piergiuseppe	KTH Royal Inst. of Tech.
Fischione, Carlo	KTH Royal Inst. of Tech.
Johansson, Karl H.	KTH Royal Inst. of Tech.

11:40-12:00	ThA01.6
<i>Asynchronous Subgradient Methods with Unbounded Delays for Communication Networks</i> , pp. 5870-5875.	
Gatsis, Nikolaos	Univ. of Minnesota
Giannakis, Georgios B.	Univ. of Minnesota
12:00-12:20	
<i>Dynamics of Opinion Forming in Structurally Balanced Social Networks</i> , pp. 5876-5881.	
Altafini, Claudio	SISSA International School For Advanced Studies
ThA02	Hibiscus 2
Output Feedback and Observers I (Regular Session)	
Chair: Germani, Alfredo	Univ. dell'Aquila
Co-Chair: Perruquetti, Wilfrid	Ec. Centrale de Lille
10:00-10:20	ThA02.1
<i>State Reconstruction of Nonlinear Differential-Algebraic Systems with Unknown Inputs</i> , pp. 5882-5887.	
Bejarano, Francisco Javier	INRIA Lille-Nord
Perruquetti, Wilfrid	Ec. Centrale de Lille
Floquet, Thierry	CNRS
ZHENG, Gang	INRIA
10:20-10:40	ThA02.2
<i>A Separation Theorem for a Class of MIMO Discrete-Time Nonlinear Systems</i> , pp. 5888-5893.	
Conte, Francesco	Univ. dell'Aquila
Cusimano, Valerio	Univ. Campus Bio-Medico di Roma
Germani, Alfredo	Univ. dell'Aquila
10:40-11:00	ThA02.3
<i>On the Robustness of Hysteretic Second-Order Systems with PID: Iiss Approach</i> , pp. 5894-5899.	
Ouyang, Ruiyue	Univ. of Groningen
Jayawardhana, Bayu	Univ. of Groningen
Andrieu, Vincent	Univ. de Lyon
11:00-11:20	ThA02.4
<i>Globally Convergent Nonlinear Observer for the Sensorless Control of Surface-Mount Permanent Magnet Synchronous Machines</i> , pp. 5900-5905.	
Malaize, Jeremy	IFP New Energy
Praly, Laurent	Mines ParisTech
Henwood, Nicolas	IFP Energies Nouvelles
11:20-11:40	ThA02.5
<i>Finite-Time Output Stabilization of the Double Integrator</i> , pp. 5906-5911.	
Bernuau, Emmanuel	Ec. Centrale de Lille
Perruquetti, Wilfrid	Ec. Centrale de Lille
Efimov, Denis	INRIA - LNE
Moulay, Emmanuel	Univ. de Poitiers
11:40-12:00	ThA02.6
<i>Full-Order Extended High Gain Observers for a Class of Nonlinear Systems</i> , pp. 5912-5917.	
Boker, Al-Muatazbellah M	Michigan State Univ.
Khalil, Hassan K.	Michigan State Univ.

12:00-12:20	ThA02.7
<i>Local Full-State Observers on Linear Lie Groups with Linear Error Dynamics</i> , pp. 5918-5923.	
Koldychev, Mikhail	Univ. of Waterloo
Nielsen, Christopher	Univ. of Waterloo
ThA03	Hibiscus 3
Cooperative Control IV (Regular Session)	
Chair: Polushin, Ilia G.	Western Univ.
Co-Chair: Iwasaki, Tetsuya	UCLA
10:00-10:20	ThA03.1
<i>On the Formation Patterns in Cyclic Pursuit of Double-Integrator Agents</i> , pp. 5924-5929.	
Juang, Jyh-Ching	National Cheng Kung Univ.
10:20-10:40	ThA03.2
<i>An H_{infinity}/L₁ Approach to Cooperative Control of Multi-Agent Systems</i> , pp. 5930-5935.	
Pilz, Ulf	Hamburg Univ. of Tech.
Werner, Herbert	Hamburg Univ. of Tech.
10:40-11:00	ThA03.3
<i>Adaptive Synchronization of Networked Lagrangian Systems with Irregular Communication Delays</i> , pp. 5936-5941.	
Abdessameud, Abdelkader	Univ. of Western Ontario
Polushin, Ilia G.	Western Univ.
Tayebi, Abdelhamid	Lakehead Univ.
11:00-11:20	ThA03.4
<i>Orbital Stability Analysis of Coupled Harmonic Oscillators</i> , pp. 5942-5947.	
Liu, Xinmin	Univ. of California, Los Angeles
Iwasaki, Tetsuya	Univ. of California, Los Angeles
11:20-11:40	ThA03.5
<i>Consensus Output Regulation without State Estimation for a Class of Nonlinear Systems</i> , pp. 5948-5953.	
Ding, Zhengtao	Univ. of Manchester
11:40-12:00	ThA03.6
<i>Topological Heterogeneity and Optimality Analysis for Multi-Agent Formation</i> , pp. 5954-5959.	
Zhang, Haopeng	Texas Tech. Univ.
Hui, Qing	Texas Tech. Univ.
12:00-12:20	ThA03.7
<i>A Constructive Approach to Synchronization Using Relative Information</i> , pp. 5960-5965.	
Wu, Jingbo	Univ. of Stuttgart
Allgower, Frank	Univ. of Stuttgart
ThA04	Plumeria 1
Markov Processes I (Regular Session)	
Chair: Belta, Calin	Boston Univ.
Co-Chair: Yin, George	Wayne State Univ.
10:00-10:20	ThA04.1
<i>Approximate Markovian Abstractions for Linear Stochastic Systems</i> , pp. 5966-5971.	
Lahijanian, Morteza	Boston Univ.
Andersson, Sean	Boston Univ.
Belta, Calin	Boston Univ.
10:20-10:40	ThA04.2
<i>Sampling-Based Algorithm for Filtering Using Markov Chain Approximations</i> , pp. 5972-5978.	
Chaudhari, Pratik	Massachusetts Inst. of Tech.
Karaman, Sertac	Massachusetts Inst. of Tech.
Frazzoli, Emilio	Massachusetts Inst. of Tech.
10:40-11:00	ThA04.3
<i>Stability of Jump Diffusions with Random Switching (I)</i> , pp. 5979-5984.	
Yin, George	Wayne State Univ.
Xi, Fubao	Beijing Inst. of Tech.
11:00-11:20	ThA04.4
<i>Large Deviations for Systems Driven by Two-Time-Scale Nonhomogeneous Markovian Chains and Applications to Optimal Control Problems (I)</i> , pp. 5985-5990.	
He, Qi	Wayne State Univ.
Yin, George	Wayne State Univ.
Zhang, Qing	Univ. of Georgia
11:20-11:40	ThA04.5
<i>Dominance-Constrained Markov Decision Processes</i> , pp. 5991-5996.	
Haskell, William	Univ. of Southern California
Jain, Rahul	Univ. of Southern California
11:40-12:00	ThA04.6
<i>The Complexity of Policy Iteration Is Exponential for Discounted Markov Decision Processes</i> , pp. 5997-6002.	
Hollanders, Romain	UC Louvain
Delvenne, Jean-Charles	UC Louvain
Jungers, Raphaël M.	UC Louvain
12:00-12:20	ThA04.7
<i>Static Output Feedback H₂/H_{infinity} Control of Infinite Horizon Markov Jump Linear Stochastic Systems with Multiple Decision Makers</i> , pp. 6003-6008.	
Mukaidani, Hiroaki	Hiroshima Univ.
Xu, Hua	Univ. of Tsukuba
Yamamoto, Toru	Hiroshima Univ.
Dragan, Vasile	Romanian Acad.
ThA05	Plumeria 2
Filtering (Regular Session)	
Chair: Blom, Henk A.P.	National Aerospace Lab. NLR & Delft Univ. of Tech.
Co-Chair: de Callafon, Raymond A.	Univ. of California, San Diego

10:00-10:20	ThA05.1
<i>Min-Plus Techniques for Set-Valued State Estimation</i> , pp. 6009-6014.	
Kallapur, Abhijit	Univ. of New South Wales at the ADFA
Sridharan, Srinivas	Univ. of California, San Diego
McEneaney, William	Univ. of California, San Diego
Petersen, Ian R.	Univ. of New South Wales at the ADFA
10:20-10:40	ThA05.2
<i>The Continuous Time Roots of the Interacting Multiple Model Filter</i> , pp. 6015-6021.	
Blom, Henk A.P.	National Aerospace Lab. NLR & Delft Univ. of Tech.
10:40-11:00	ThA05.3
<i>Comparison of the Sparse-Grid Quadrature Rule and the Cubature Rule in the Nonlinear Filtering</i> , pp. 6022-6027.	
Jia, Bin	Mississippi State Univ.
Xin, Ming	Mississippi State Univ.
Cheng, Yang	Mississippi State Univ.
11:00-11:20	ThA05.4
<i>Observer Design for Stochastic Nonlinear Systems Using Contraction Analysis</i> , pp. 6028-6035.	
Dani, Ashwin	Univ. of Illinois at Urbana-Champaign
Chung, Soon-Jo	Univ. of Illinois at Urbana-Champaign
Hutchinson, Seth	Univ. of Illinois at Urbana-Champaign
11:20-11:40	ThA05.5
<i>Dynamical Filtering Equations for Stochastic Hybrid System State Estimation</i> , pp. 6036-6041.	
Liu, Weiyi	Purdue Univ.
Hwang, Inseok	Purdue Univ.
11:40-12:00	ThA05.6
<i>Nonlinear Gaussian Filtering Via Radial Basis Function Approximation</i> , pp. 6042-6047.	
Fang, Huazhen	Univ. of California, San Diego
Wang, Jia	Dalian Univ. of Tech.
de Callafon, Raymond A.	Univ. of California, San Diego
12:00-12:20	ThA05.7
<i>On Designing Event-Based H_infty Filters for Sampled-Data Systems</i> , pp. 6048-6053.	
ZHANG, XIANMING	Central Queensland Univ.
Han, Qing-Long	Central Queensland Univ.
ThA06	Plumeria 3
Adaptive Control IV (Regular Session)	
Chair: di Bernardo, Mario	Univ. of Naples Federico II
Co-Chair: Miyasato, Yoshihiko	Inst. of Statistical Mathematics
10:00-10:20	ThA06.1
<i>Adaptive Backstepping Cancellation of Unmatched Unknown Sinusoidal Disturbances for Unknown LTI Systems by State Derivative Feedback</i> , pp. 6054-6059.	
Basturk, Halil I.	Univ. of California, San Diego
Krstic, Miroslav	Univ. of California, San Diego
10:20-10:40	ThA06.2
<i>Adaptive Pinning Control of Complex Networks of Lur'e Systems</i> , pp. 6060-6064.	
De Lellis, Pietro	Univ. of Naples Federico II
di Bernardo, Mario	Univ. of Naples Federico II
10:40-11:00	ThA06.3
<i>Extremum Seeking-Based Tracking for Unknown Systems with Unknown Control Directions</i> , pp. 6065-6070.	
Scheinker, Alexander	UCSD, Los Alamos National Lab.
Krstic, Miroslav	Univ. of California, San Diego
11:00-11:20	ThA06.4
<i>Adaptive H-Infinity Formation Control for Infinite-Dimensional Systems</i> , pp. 6071-6076.	
Miyasato, Yoshihiko	Inst. of Statistical Mathematics
11:20-11:40	ThA06.5
<i>Non-Local Stability of a Nash Equilibrium Seeking Scheme with Dither Re-Use</i> , pp. 6077-6082.	
Kutadinata, Ronny	Univ. of Melbourne
Moase, William	Univ. of Melbourne
Manzie, Chris	Univ. of Melbourne
11:40-12:00	ThA06.6
<i>Fast Adaptation for an Uncertain Nonlinear System Using Adaptive Feedback Linearization with Optimal Control Modification</i> , pp. 6083-6089.	
Cho, Dongsoo	Seoul National Univ.
Kim, H. Jin	Seoul National Univ.
12:00-12:20	ThA06.7
<i>Adaptive Sliding Mode Control Using Slack Variables for Affine Underactuated Systems</i> , pp. 6090-6095.	
Kim, Mingu	Seoul National Univ.
Kim, Youdan	Seoul National Univ.
Jun, Jaiung	Seoul National Univ.
ThA07	Maile 1
Quantized Systems (Regular Session)	
Chair: Coutinho, Daniel	Univ. Federal de Santa Catarina
Co-Chair: Tarraf, Danielle C.	The Johns Hopkins Univ.
10:00-10:20	ThA07.1
<i>Stability Analysis of Input and Output Finite Level Quantized Discrete-Time Linear Control Systems</i> , pp. 6096-6101.	
Maestrelli, Rafael	PUC-PR
Coutinho, Daniel	Univ. Federal de Santa Catarina
de Souza, Carlos E.	LNCC
10:20-10:40	ThA07.2
<i>Input-Output Based rho/mu Approximations for Systems with No Exogenous Inputs</i> , pp. 6102-6106.	
Tarraf, Danielle C.	Johns Hopkins Univ.

10:40-11:00	ThA07.3	
<i>Convergence of a PI Coordination Protocol in Networks with Switching Topology and Quantized Measurements</i> , pp. 6107-6112.		
Xargay, Enric	Univ. of Illinois, Urbana-Champaign	
Choe, Ronald	Univ. of Illinois at Urbana-Champaign	
Hovakimyan, Naira	Univ. of Illinois, Urbana-Champaign	
Kaminer, Isaac	Naval Postgraduate School	
11:00-11:20	ThA07.4	
<i>A Mechanism Design Model in Robot-Service-Queue Control with Strategic Operators and Asymmetric Information</i> , pp. 6113-6119.		
Xu, Ying	Carnegie Mellon Univ.	
Dai, Tinglong	Carnegie Mellon Univ.	
Sycara, Katia	Carnegie Mellon Univ.	
Lewis, Michael	Univ. of Pittsburgh	
11:20-11:40	ThA07.5	
<i>Automatic Control Software Synthesis for Quantized Discrete Time Hybrid Systems</i> , pp. 6120-6125.		
Alimguzhin, Vadim	Sapienza Univ. of Rome	
Mari, Federico	Sapienza Univ. of Rome	
Melatti, Igor	Sapienza Univ. of Rome	
Salvo, Ivano	Sapienza Univ. of Rome	
Tronci, Enrico	Sapienza Univ. of Rome	
11:40-12:00	ThA07.6	
<i>On Optimal Zero-Delay Quantization of Vector Markov Sources</i> , pp. 6126-6131.		
Yuksel, Serdar	Queen's Univ.	
Linder, Tamas	Queen's Univ.	
12:00-12:20	ThA07.7	
<i>Optimal Adaptive Controller Scheme for Uncertain Quantized Linear Discrete-Time System</i> , pp. 6132-6137.		
Zhao, Qiming	Missouri Univ. of Science & Tech.	
XU, HAO	Missouri Univ. of Science & Tech.	
Jagannathan, Sarangapani	Missouri Univ. of Science & Tech.	
ThA08	Maile 2	
Hybrid Systems II (Regular Session)		
Chair: Menini, Laura	Univ. di Roma Tor Vergata	
Co-Chair: Huang, Yuan Can	Beijing Inst. of Tech.	
10:00-10:20	ThA08.1	
<i>Guard Synthesis for Safety of Hybrid Systems Using Sum of Squares Programming</i> , pp. 6138-6143.		
Coogan, Samuel	Univ. of California, Berkeley	
Arcak, Murat	Univ. of California, Berkeley	
ThA09	Maile 3	
Fuzzy Systems (Regular Session)		
Chair: Shi, Peng	Univ. of Glamorgan	
Co-Chair: Tanaka, Kazuo	Univ. of Electro-Communications	
10:00-10:20	ThA09.1	
<i>Discrete-Time LTI Fuzzy Systems: Stability and Representation</i> , pp. 6181-6186.		
Oliva, Gabriele	Univ. Roma Tre	
Setola, Roberto	Univ. Campus Biomedico	
Panzieri, Stefano	Univ. Roma Tre	
10:20-10:40	ThA09.2	
<i>Domain of Attraction Analysis for Continuous-Time Takagi-Sugeno Fuzzy Systems: An LMI Approach</i> , pp. 6187-6192.		
Lee, DongHwan	Yonsei Univ.	

10:40-11:00	ThA09.3	
<i>Full and Reduced-Order Filter Design for Discrete-Time Takagi-Sugeno Fuzzy Systems with Time-Varying Delay</i> , pp. 6193-6198.		
Su, Xiaojie Shi, Peng Wu, Ligang Karimi, Hamid Reza Yang, Rongni	Harbin Institute of Tech. Univ. of Glamorgan Harbin Institute of Tech. Univ. of Agder Univ. of Glamorgan	CNRS INPL
11:00-11:20	ThA09.4	
<i>Induced ℓ_2 Control of Discrete-Time Takagi-Sugeno Fuzzy Systems with Time-Varying Delays Via Dynamic Output Feedback</i> , pp. 6199-6204.		
Su, Xiaojie Shi, Peng Wu, Ligang Karimi, Hamid Reza Yang, Rongni	Harbin Institute of Tech. Univ. of Glamorgan Harbin Inst. of Tech. Univ. of Agder Univ. of Glamorgan	KTH Royal Inst. of Tech. National Tech. Univ. of Athens
11:20-11:40	ThA09.5	
<i>Using Information on Membership Function Shapes in Asymptotically Exact Triangulation Approaches</i> , pp. 6205-6210.		
Campos, Victor Costa da Silva Torres, Leonardo A. B. Palhares, Reinaldo Martinez	Federal Univ. of Minas Gerais Federal Univ. of Minas Gerais Federal Univ. of Minas Gerais	Karlsruhe Inst. of Tech. Karlsruhe Inst. of Tech. Karlsruhe Inst. of Tech.
11:40-12:00	ThA09.6	
<i>Unknown Input Observer for Vehicle Lateral Dynamics Based on a Takagi-Sugeno Model with Unmeasurable Premise Variables</i> , pp. 6211-6216.		
Yacine, Zadjiga Ichalal, Dalil AIT OUFROUKH, NAIMA Mammar, Said DJENNOUNE, Saïd	IBISC, Univ. d'Evry IBISC, Univ. d'Evry IBISC, Univ. d'Evry IBISC, Univ. d'Evry Univ. of Mouloud Mammeri, Tizi-Ouzou	Southeast Univ. Southeast Univ. Univ. of California, Merced
12:00-12:20	ThA09.7	
<i>A Takagi-Sugeno Fuzzy Model Approach to Vision-Based Control of a Micro Helicopter</i> , pp. 6217-6222.		
Tanaka, Kazuo Otake, Hiroshi Tanaka, Motoyasu Wang, Hua O.	Univ. of Electro-Communications Kyushu Inst. of Tech. Univ. of Electro-Communications Boston Univ.	Arizona State Univ. Arizona State Univ.
ThA10		Pikake 1
Decentralized Control I (Regular Session)		
Chair: Chen, YangQuan Co-Chair: Lessard, Laurent	Utah State Univ. Lund Univ.	
10:00-10:20	ThA10.1	
<i>Contraction Theory Approach to Generalized Decentralized Cyclic Algorithms for Global Formation Acquisition and Control</i> , pp. 6223-6228.		
Ramirez-Riberos, Jaime L Slotine, Jean-Jacques E.	Aurora Flight Sciences Corp. Massachusetts Inst. of Tech.	Massachusetts Inst. of Tech. Univ. of Wisconsin, Madison
ThA11		Pikake 2
Convex Relaxation in Identification and Control (Invited Session)		
Chair: Regruto, Diego Co-Chair: Tóth, Roland Organizer: Regruto, Diego Organizer: Molazem Sanandaji, Borhan Organizer: Tóth, Roland	Delft Univ. of Tech. Pol. di Torino Pol. di Torino Colorado School of Mines Delft Univ. of Tech.	
10:00-10:20	ThA11.1	
<i>Linear System Identification Via Atomic Norm Regularization (I)</i> , pp. 6265-6270.		
Shah, Parikshit Bhaskar, Badri Narayan Tang, Gongguo Recht, Benjamin	Massachusetts Inst. of Tech. Univ. of Wisconsin, Madison Univ. of Wisconsin, Madison Univ. of Wisconsin, Madison	
10:20-10:40	ThA11.2	
<i>Order and Structural Dependence Selection of LPV-ARX Models Revisited (I)</i> , pp. 6271-6276.		
Tóth, Roland Hjalmarsson, Håkan Rojas, Cristian R.	Eindhoven Univ. of Tech. KTH Royal Inst. of Tech. KTH Royal Inst. of Tech.	

10:40-11:00	ThA11.3
<i>A Tutorial on Recovery Conditions for Compressive System Identification of Sparse Channels (I)</i> , pp. 6277-6283.	
Sanandaji, Borhan M. Vincent, Tyrone L. Poola, Kameshwar Wakin, Michael	Univ. of California, Berkeley Colorado School of Mines Univ. of California at Berkeley Colorado School of Mines
11:00-11:20	ThA11.4
<i>A Convex Optimization Approach to Model (In)validation of Switched ARX Systems with Unknown Switches (I)</i> , pp. 6284-6290.	
Cheng, Yongfang Wang, Yin Sznaier, Mario Ozay, Necmiye Lagoa, Constantino M.	Northeastern Univ. Northeastern Univ. Northeastern Univ. California Inst. of Tech. Pennsylvania State Univ.
11:20-11:40	ThA11.5
<i>Joint Order and Dependency Reduction for LPV State-Space Models (I)</i> , pp. 6291-6296.	
Siraj, Muhammad Mohsin Tóth, Roland Weiland, Siep	Eindhoven Univ. of Tech. Eindhoven Univ. of Tech. Eindhoven Univ. of Tech.
11:40-12:00	ThA11.6
<i>Fixed Order LPV Controllers Design for LPV Models in Input-Output Form (I)</i> , pp. 6297-6302.	
Cerone, Vito Piga, Dario Regruto, Diego Tóth, Roland	Pol. di Torino Delft Univ. of Tech. Pol. di Torino Eindhoven Univ. of Tech.
12:00-12:20	ThA11.7
<i>Sampled-Data Control of LPV Systems Using Input Delay Approach (I)</i> , pp. 6303-6308.	
Ramezanifar, Amin Mohammadpour, Javad Grigoriadis, Karolos M.	Univ. of Houston Univ. of Georgia Univ. of Houston
ThA12	Pikake 3
Automotive Control II (Regular Session)	
Chair: Falcone, Paolo Co-Chair: Evangelou, Simos Andreas	Chalmers Univ. of Tech. Imperial Coll. London
10:00-10:20	ThA12.1
<i>Automatic Collision Avoidance Using Model-Predictive Online Optimization (I)</i> , pp. 6309-6314.	
Werling, Moritz Licciano, Darren	BMW BMW Group
10:20-10:40	ThA12.2
<i>Threat Assessment Design under Driver Parameter Uncertainty (I)</i> , pp. 6315-6320.	
Ali, Mohammad Falcone, Paolo Sjöberg, Jonas	Volvo Car Corp. Chalmers Univ. of Tech. Chalmers Univ. of Tech.
10:40-11:00	ThA12.3
<i>Computing Minimum Lap-Time Trajectories for a Single-Track Car with Load Transfer</i> , pp. 6321-6326.	
Rucco, Alessandro Notarstefano, Giuseppe Hauser, John	Univ. del Salento Univ. del Salento Univ. of Colorado at Boulder
11:00-11:20	ThA12.4
<i>Efficiency Maximizing and Charge Sustaining Supervisory Control for Series Hybrid Electric Vehicles</i> , pp. 6327-6332.	
Shabbir, Wassif Evangelou, Simos Andreas	Imperial Coll. London Imperial Coll. London
11:20-11:40	ThA12.5
<i>Controlling an Active Suspension Using Methods of Optimal Control</i> , pp. 6333-6339.	
Spirk, Sebastian Lohmann, Boris	Tech. Univ. München Tech. Univ. München
11:40-12:00	ThA12.6
<i>A Real Time Implementation of MPC Based Motion Cueing Strategy for Driving Simulators</i> , pp. 6340-6345.	
Maran, Fabio Beghi, Alessandro Bruschetta, Mattia	Univ. di Padova Univ. di Padova Univ. of Padova
12:00-12:20	ThA12.7
<i>Dimensioning and Control of a Thermally Constrained Double Buffer Plug-In HEV Powertrain (I)</i> , pp. 6346-6351.	
Murgovski, Nikolce Johannesson, Lars Grauers, Anders Sjöberg, Jonas	Chalmers Univ. of Tech. Chalmers Univ. of Tech. Chalmers Univ. of Tech. Chalmers Univ. of Tech.
ThA13	Ilima 1
Process Control I (Regular Session)	
Chair: Simaan, Marwan A. Co-Chair: Forgione, Marco	Univ. of Central Florida Delft Univ. of Tech.
10:00-10:20	ThA13.1
<i>Thermodynamics Based Stabilization of CSTR Networks</i> , pp. 6352-6357.	
Hoang, Ngoc Ha Counenne, Francoise Le Gorrec, Yann Dochain, Denis	Univ. Claude Bernard Lyon 1 Univ. of Lyon ENSMM, FEMTO-ST / AS2M Univ. Catholique de Louvain
10:20-10:40	ThA13.2
<i>Control of Tandem Hot Metal Strip Rolling Processes Using an Improvement to the State Dependent Riccati Equation Technique</i> , pp. 6358-6363.	
Pittner, John Simaan, Marwan A.	Univ. of Pittsburgh Univ. of Central Florida
10:40-11:00	ThA13.3
<i>Batch-To-Batch Strategies for Cooling Crystallization</i> , pp. 6364-6369.	
Forgione, Marco Mesbah, Ali Bombois, Xavier Van den Hof, Paul M.J.	Delft Univ. of Tech. Massachusetts Inst. of Tech. Delft Univ. of Tech. Eindhoven Univ. of Tech.

11:00-11:20	ThA13.4	
<i>Real-Time Scheduling of Batch Processes Via Multi-Agent Based Modeling</i> , pp. 6370-6375.		
Chu, Yunfei Wassick, John You, Fengqi	Northwestern Univ. Dow Chemical Company Northwestern Univ.	
11:20-11:40	ThA13.5	
<i>Hierarchical Control of a Renewable Hybrid Energy System</i> , pp. 6376-6381.		
Trifkovic, Milana Sheikhzadeh, Mehdi Nigim, Khaled Daoutidis, Prodromos	Univ. of Minnesota Lambton Coll. Lambton Coll. Univ. of Minnesota	
11:40-12:00	ThA13.6	
<i>Feedback Control and Estimation of Crystal Size Distribution in a Cooling Batch Crystallizer Based on Reachability Analysis</i> , pp. 6382-6387.		
Zhang, Kun Nadri, Madiha XU, Chengzhong	Univ. Claude Bernard Lyon 1 Univ. Claude Bernard Lyon 1 Univ. Claude Bernard Lyon 1	
12:00-12:20	ThA13.7	
<i>Graph Reduction for Hierarchical Control of Energy Integrated Process Networks</i> , pp. 6388-6393.		
Heo, Seongmin Jogwar, Sujit S. Rangarajan, Srinivas Daoutidis, Prodromos	Univ. of Minnesota Univ. of Minnesota Univ. of Minnesota Univ. of Minnesota	
ThA14	Ilma 2	
Optimal Control I (Regular Session)		
Chair: Pham, Van Thang Co-Chair: Pereira, Fernando Lobo	Gipsa-Lab. Porto Univ.	
10:00-10:20	ThA14.1	
<i>The Generalised Discrete Algebraic Riccati Equation Arising in LQ Optimal Control Problems: Part I</i> , pp. 6394-6399.		
Ferrante, Augusto Ntogramatzidis, Lorenzo	Univ. di Padova Curtin Univ.	
10:20-10:40	ThA14.2	
<i>The Generalised Discrete Algebraic Riccati Equation Arising in LQ Optimal Control Problems: Part II</i> , pp. 6400-6405.		
Ferrante, Augusto Ntogramatzidis, Lorenzo	Univ. di Padova Curtin Univ.	
10:40-11:00	ThA14.3	
<i>On the Extension of Classical Calculus of Variations and Optimal Control to Problems with Discontinuous Trajectories</i> , pp. 6406-6411.		
Arutyunov, Aram V. Karamzin, Dmitry Pereira, Fernando Lobo	Peoples Friendship Univ. Russia Moscow State Univ. Porto Univ.	
11:00-11:20	ThA14.4	
<i>Predictive Control with Terminal Constraint for 2x2 Hyperbolic Systems of Conservation Laws</i> , pp. 6412-6417.		
Pham, Van Thang Georges, Didier Besancon, Gildas	GIPSA-Lab. Grenoble INP Grenoble Inst. of Tech. GIPSA-Lab. Grenoble INP	
11:20-11:40	ThA14.5	
<i>A New Sufficient Condition for Optimal Impulsive Control Problems</i> , pp. 6418-6423.		
de Oliveira, Valeriano Silva, Geraldo Nunes Pereira, Fernando Lobo	State Univ. of São Paulo Univ. Estadual Paulista Porto Univ.	
11:40-12:00	ThA14.6	
<i>Discrete Clebsch Optimal Control (I)</i> , pp. 6424-6429.		
Nordkvist, Niklas Crouch, Peter Bloch, Anthony M.	Leeward Community Coll. Univ. of Hawaii Univ. of Michigan	
12:00-12:20	ThA14.7	
<i>Nonlinear Optimal Stabilizing Control under Sampling</i> , pp. 6430-6435.		
Tanasa, Valentin Monaco, Salvatore Normand-Cyrot, Marie-Dorothée	Univ. Pol. Bucharest Univ. di Roma CNRS-Supelec	
ThA15	Ilma 3	
Sliding Mode Control I (Regular Session)		
Chair: Chitour, Yacine Co-Chair: Moreno, Jaime A.	Univ. Paris-Sud, CNRS, Supelec Univ. Nacional Autonoma de Mexico-UNAM	
10:00-10:20	ThA15.1	
<i>Robust and Adaptive Higher Order Sliding Mode Controllers</i> , pp. 6436-6441.		
Harmouche, Mohamed Laghrouche, Salah Chitour, Yacine	UTBM UTBM Univ. Paris-Sud, CNRS, Supelec	
10:20-10:40	ThA15.2	
<i>Integral Sliding Mode Control for Linear Time-Invariant Implicit Descriptions</i> , pp. 6442-6447.		
Castaños, Fernando Hernandez, Debbie Fridman, Leonid M.	CINVESTAV CINVESTAV-IPN Univ. Nacional Autonoma de Mexico-UNAM	
10:40-11:00	ThA15.3	
<i>Lyapunov Function for Levant's Second Order Differentiator</i> , pp. 6448-6453.		
Moreno, Jaime A.	Univ. Nacional Autonoma de Mexico-UNAM	
11:00-11:20	ThA15.4	
<i>Construction of Lyapunov Functions for a Class of Higher Order Sliding Modes Algorithms</i> , pp. 6454-6459.		
Sanchez, Tonatihi Moreno, Jaime A.	Univ. Nacional Autonoma de Mexico-UNAM Univ. Nacional Autonoma de Mexico-UNAM	
11:20-11:40	ThA15.5	
<i>Asymptotic Stabilization in Fixed Time Via Sliding Mode Control</i> , pp. 6460-6465.		
Cruz-Zavala, Emmanuel Moreno, Jaime A. Fridman, Leonid M.	Univ. Nacional Autonoma de Mexico Univ. Nacional Autonoma de Mexico-UNAM Univ. Nacional Autonoma de Mexico-UNAM	

11:40-12:00	ThA15.6	
Second-Order Sliding Mode Control for Passive Ranging System in Missile Interception, pp. 6466-6471.		
Wang, Ting-Kuo	National Taiwan Univ.	
Fu, Li-Chen	National Taiwan Univ.	
Jean, Jong-Hann	St. John's Univ.	
12:00-12:20	ThA15.7	
Second Order Sliding Mode Control of a 3-Dimensional Overhead Crane, pp. 6472-6476.		
Vazquez, Carlos	National Autonomous Univ. of Mexico	
Fridman, Leonid M.	National Autonomous Univ. of Mexico	
Collado, Joaquin	CINVESTAV	
ThA16	Haleakala Ballroom 3	
Game Theory I (Regular Session)		
Chair: Langbort, Cedric	Univ. of Illinois, Urbana-Champaign	
Co-Chair: Spieser, Kevin	Massachusetts Inst. of Tech.	
10:00-10:20	ThA16.1	
A Dynamic Transmitter-Jammer Game with Asymmetric Information (I), pp. 6477-6482.		
Gupta, Abhishek	Univ. of Illinois at Urbana-Champaign	
Nayyar, Ashutosh	Univ. of California, Berkeley	
Langbort, Cedric	Univ. of Illinois, Urbana-Champaign	
Basar, Tamer	Univ. of Illinois, Urbana-Champaign	
10:20-10:40	ThA16.2	
A Full Characterization of the Set of Optimal Affine Solutions to the Reverse Stackelberg Game, pp. 6483-6488.		
Groot, Noortje	Delft Univ. of Tech.	
De Schutter, Bart	Delft Univ. of Tech.	
Hellendoorn, Hans	Delft Univ. of Tech.	
10:40-11:00	ThA16.3	
Approximate Solutions to a Class of Nonlinear Differential Games, pp. 6489-6494.		
Mylvaganam, Thulasi	Imperial Coll. London	
Sassano, Mario	Imperial Coll. London	
Astolfi, Alessandro	Imperial Coll. & Univ. of Rome	
11:00-11:20	ThA16.4	
Characterization of Robust Feedback Nash Equilibrium for Multi-Channel Systems, pp. 6495-6500.		
Befekadu, Getachew	Univ. of Notre Dame	
Gupta, Vijay	Univ. of Notre Dame	
Antsaklis, Panos J.	Univ. of Notre Dame	
11:20-11:40	ThA16.5	
A General, Open-Loop Formulation for Reach-Avoid Games, pp. 6501-6506.		
Zhou, Zhengyuan	UC Berkeley	
Takei, Ryo	UC Los Angeles	
Huang, Haomiao	Stanford Univ.	
Tomlin, Claire J.	UC Berkeley	
11:40-12:00	ThA16.6	
A Projection Framework for Near-Potential Polynomial Games, pp. 6507-6512.		
Matni, Nikolai	California Inst. of Tech.	
12:00-12:20	ThA16.7	
The Cow-Path Game: A Competitive Vehicle Routing Problem, pp. 6513-6520.		
Spieser, Kevin	Massachusetts Inst. of Tech.	
Frazzoli, Emilio	Massachusetts Inst. of Tech.	
ThA17	Haleakala Ballroom 5	
Stability of Linear Systems (Regular Session)		
Chair: Ambrosino, Roberto	Univ. di Napoli, Parthenope	
Co-Chair: Zhu, J. Jim	Ohio Univ.	
10:00-10:20	ThA17.1	
Singular Perturbation Margin Assessment of Linear Time-Invariant Systems Via the Bauer-Fike Theorems, pp. 6521-6528.		
Yang, Xiaojing	Ohio Univ.	
Zhu, J. Jim	Ohio Univ.	
10:20-10:40	ThA17.2	
Generalized Sensitivity Decoupling for Dual-Stage Servo Systems, pp. 6529-6534.		
Kinney, Charles	Precision Control Solutions, LLC	
Weng, Ming-Chi	Quantum Corp.	
Goker, Turguy	Quantum Corp.	
10:40-11:00	ThA17.3	
Piecewise Quadratic Functions for Finite-Time Stability Analysis, pp. 6535-6540.		
Ambrosino, Roberto	Univ. di Napoli, Parthenope	
Garone, Emanuele	Univ. Libre de Bruxelles	
Ariola, Marco	Univ. degli Studi di Napoli Parthenope	
Amato, Francesco	Univ. Magna Graecia di Catanzaro	
11:00-11:20	ThA17.4	
A Two-Impulse Method for Stabilizing the Spacecraft Relative Motion with Respect to a Periodic Trajectory, pp. 6541-6546.		
Deaconu, Georgia	LAAS - CNRS	
Iouembet, christophe	LAAS - CNRS	
Theron, Alain	LAAS - CNRS	
11:20-11:40	ThA17.5	
Singular Perturbation Margin Assessment of Linear Slowly Time-Varying Systems, pp. 6547-6553.		
Yang, Xiaojing	Ohio Univ.	
Zhu, J. Jim	Ohio Univ.	
11:40-12:00	ThA17.6	
The Rendezvous Dynamics under Linear Quadratic Optimal Control, pp. 6554-6559.		
Di Cairano, Stefano	Mitsubishi Electric Res. Lab.	
Pascucci, Carlo Alberto	IMT Inst. for Advanced Studies Lucca	
Bemporad, Alberto	IMT Inst. for Advanced Studies Lucca	

12:00-12:20	ThA17.7
<i>Numerical Computation of Structured Complex Stability Radii of Large-Scale Matrices and Pencils</i> , pp. 6560-6565.	
Benner, Peter	Max Planck Inst. for Dynamics of Complex Tech. Systems
Voigt, Matthias	Max Planck Inst. for Dynamics of Complex Tech. Systems
ThB01	Hibiscus 1
Networked Event-Based Control (Invited Session)	
Chair: Hirche, Sandra	Tech. Univ. München
Co-Chair: Johansson, Karl H.	KTH Royal Inst. of Tech.
Organizer: Hirche, Sandra	Tech. Univ. München
Organizer: Johansson, Karl H.	KTH Royal Inst. of Tech.
Organizer: Heemels, W.P.M.H.	Eindhoven Univ. of Tech.
14:00-14:20	ThB01.1
<i>Event-Triggered PI Control: Saturating Actuators and Anti-Windup Compensation (I)</i> , pp. 6566-6571.	
Lehmann, Daniel	KTH Royal Inst. of Tech.
Kiener, Georg Alexander	KTH Royal Inst. of Tech.
Johansson, Karl H.	KTH Royal Inst. of Tech.
14:20-14:40	ThB01.2
<i>The Performance of Event-Based Control for Scalar Systems with Packet Losses (I)</i> , pp. 6572-6576.	
Blind, Rainer	Univ. of Stuttgart
Allgower, Frank	Univ. of Stuttgart
14:40-15:00	ThB01.3
<i>Resilient Event Triggered Systems with Limited Communication (I)</i> , pp. 6577-6582.	
Li, Lichun	Univ. of Notre Dame
HU, Bin	Univ. of Notre Dame
Lemmon, Michael	Univ. of Notre Dame
15:00-15:20	ThB01.4
<i>Event-Based State Estimation with Variance-Based Triggering (I)</i> , pp. 6583-6590.	
Trimpe, Sebastian	ETH Zurich
D'Andrea, Raffaello	ETH
15:20-15:40	ThB01.5
<i>Adaptive Event-Triggered Control Over a Shared Network (I)</i> , pp. 6591-6596.	
Molin, Adam	Tech. Univ. München
Hirche, Sandra	Tech. Univ. München
15:40-16:00	ThB01.6
<i>Event-Triggered Dynamic Output Feedback Control for LTI Systems (I)</i> , pp. 6597-6602.	
Tallapragada, Pavankumar	Univ. of Maryland, Coll. Park
Chopra, Nikhil	Univ. of Maryland, Coll. Park
ThB02	Hibiscus 2
Output Feedback and Observers II (Regular Session)	
Chair: Silvestre, Carlos	Inst. Superior Tecnico
Co-Chair: Rouchon, Pierre	Mines ParisTech
14:00-14:20	ThB02.1
<i>Globally Asymptotically Stable Filters for Navigation Aided by Direction and Depth Measurements</i> , pp. 6603-6608.	
Batista, Pedro	Inst. Superior Técnico
Silvestre, Carlos	Univ. of Macau
Oliveira, Paulo Jorge	Inst. Superior Técnico
14:20-14:40	ThB02.2
<i>GES Integrated LBL/USBL Navigation System for Underwater Vehicles</i> , pp. 6609-6614.	
Batista, Pedro	Inst. Superior Técnico
Silvestre, Carlos	Inst. Superior Técnico
Oliveira, Paulo Jorge	Inst. Superior Técnico
14:40-15:00	ThB02.3
<i>Design of a Prescribed Convergence Time Uniform Robust Exact Observer in the Presence of Measurement Noise</i> , pp. 6615-6620.	
Fraguela Cuesta, Liset	Univ. Nacional Autónoma de México
Angulo, Marco Tulio	Univ. Nacional Autónoma de México
Moreno, Jaime A.	Univ. Nacional Autónoma de México
Fridman, Leonid M.	Univ. Nacional Autónoma de México
15:00-15:20	ThB02.4
<i>Robust Observer Design for Lipschitz Nonlinear Systems Using Quadratic Polynomial Constraints</i> , pp. 6621-6626.	
Wang, Yan	Auburn Univ.
Bevly, David M.	Auburn Univ.
15:20-15:40	ThB02.5
<i>Rotational and Translational Bias Estimation Based on Depth and Image Measurements</i> , pp. 6627-6634.	
Zarrouati-Vissiere, Nadege	DGA
Rouchon, Pierre	Mines ParisTech
Beauchard, Karine	CNRS, CMSL, Ec. Pol.
15:40-16:00	ThB02.6
<i>Dynamical Continuous High Gain Observer for Sampled Measurements Systems</i> , pp. 6635-6640.	
Hann, Cheikh Ahmadou Bamba	Univ. Caen Basse-Normandie
Van Assche, Vincent	Univ. de Caen Basse Normandie
Crasta, Naveena	Supelec, France
Lamnabhi-Lagarrigue, Francoise	CNRS and EECI
ThB03	Hibiscus 3
Robustness in Networked Control Systems with Uncertainty (Invited Session)	
Chair: Antsaklis, Panos J.	Univ. of Notre Dame
Co-Chair: Marquez, Horacio J.	Univ. of Alberta
Organizer: Chesi, Graziano	Univ. of Hong Kong
14:00-14:20	ThB03.1
<i>Gain-Scheduled Synthesis with Dynamic Positive Real Multipliers (I)</i> , pp. 6641-6646.	
Scherer, Carsten W.	Univ. of Stuttgart

14:20-14:40	ThB03.2
<i>Output Feedback Model-Based Control of Uncertain Discrete-Time Systems with Network Induced Delays (I)</i> , pp. 6647-6652.	
Garcia, Eloy Antsaklis, Panos J.	Univ. of Notre Dame Univ. of Notre Dame
14:40-15:00	ThB03.3
<i>Decentralized Control of Interconnected Positive Systems Using L1-Induced Norm Characterization (I)</i> , pp. 6653-6658.	
Ebihara, Yoshio Peaucelle, Dimitri Arzelier, Denis	Kyoto Univ. LAAS-CNRS, Univ. de Toulouse LAAS-CNRS
15:00-15:20	ThB03.4
<i>Stability and Performance Analysis in the Presence of LTV Perturbations with Bounded Rates of Variation: A Lyapunov Based Approach (I)</i> , pp. 6659-6664.	
Roos, Clément Lafourcade, Laure Biannic, Jean-Marc	ONERA ONERA ONERA
15:20-15:40	ThB03.5
<i>Stabilization of Uncertain Distributed Networked Control Systems with Minimal Communications Network</i> , pp. 6665-6670.	
Razeghi-Jahromi, Mohammad Seyed, Alireza	Univ. of Rochester Univ. of Rochester
15:40-16:00	ThB03.6
<i>H-infinity Filtering of Lipschitz Nonlinear Systems with Network-Induced Uncertain Delays</i> , pp. 6671-6675.	
Allahverdi Charandabi, Behnam Marquez, Horacio J.	Univ. of Alberta Univ. of Alberta
ThB04	Plumeria 1
Markov Processes II (Regular Session)	
Chair: Dullerud, Geir E.	Univ. of Illinois, Urbana-Champaign
Co-Chair: Arapostathis, Ari	Univ. of Texas at Austin
14:00-14:20	ThB04.1
<i>The Poisson Equation for Reversible Markov Chains: Analysis and Application to Markov Chain Samplers</i> , pp. 6676-6682.	
Cogill, Randy Vargo, Erik	Univ. of Virginia Univ. of Virginia
14:20-14:40	ThB04.2
<i>Application of Variance Reduction Techniques for Tau-Leaping Systems to Particle Filters</i> , pp. 6683-6689.	
Maginnis, Peter A West, Matthew Dullerud, Geir E.	Univ. of Illinois, Urbana-Champaign Univ. of Illinois, Urbana-Champaign Univ. of Illinois, Urbana-Champaign
14:40-15:00	ThB04.3
<i>Robust Filtering for Discrete-Time Markovian Jump Linear Systems Via Penalty Game Approach</i> , pp. 6690-6695.	
Cerri, João Paulo Terra, Marco Henrique	Univ. of São Paulo at São Carlos Univ. of São Paulo at São Carlos
15:00-15:20	ThB04.4
<i>Stochastic Differential Equations for Power Law Behaviors</i> , pp. 6696-6701.	
Jiang, Bo Brockett, Roger Gong, Weibo Towsley, Don	Univ. of Massachusetts Amherst Harvard Univ. Univ. of Massachusetts Amherst Univ. of Massachusetts Amherst
15:20-15:40	ThB04.5
<i>A Relative Value Iteration for Ergodic Control of Non-Degenerate Diffusions</i> , pp. 6702-6707.	
Arapostathis, Ari Borkar, Vivek S.	Univ. of Texas at Austin Indian Inst. of Tech.
15:40-16:00	ThB04.6
<i>Loss Bounds for Uncertain Transition Probabilities in Markov Decision Processes</i> , pp. 6708-6715.	
Mastin, Andrew Jaillet, Patrick	Massachusetts Inst. of Tech. Massachusetts Inst. of Tech.
ThB05	
Automata (Regular Session)	
Chair: Tarraf, Danielle C. Co-Chair: Moreira, Marcos Vicente	Johns Hopkins Univ. Univ. Federal do Rio de Janeiro
14:00-14:20	ThB05.1
<i>Method for Translating Ladder Diagrams to Ordinary Petri Nets</i> , pp. 6716-6721.	
Chen, Xuekun Luo, JiLiang Qi, Pengfei	Huaqiao Univ. Huaqiao Univ. Huaqiao Univ.
14:20-14:40	ThB05.2
<i>Enforcement of Opacity Properties Using Insertion Functions</i> , pp. 6722-6728.	
Wu, Yi-Chin Lafortune, Stephane	Univ. of Michigan Univ. of Michigan
14:40-15:00	ThB05.3
<i>Controllability and Stabilizability of Probabilistic Logical Control Networks</i> , pp. 6729-6734.	
Zhao, Yin Cheng, Daizhan	Chinese Acad. of Sciences Chinese Acad. of Sciences
15:00-15:20	ThB05.4
<i>An Iterative Algorithmic Implementation of Input-Output Finite State Approximations</i> , pp. 6735-6741.	
Alamifar, Fereshteh Tarraf, Danielle C.	Johns Hopkins Univ. Johns Hopkins Univ.
15:20-15:40	ThB05.5
<i>Petri Net Diagnoser for DES Modeled by Finite State Automata</i> , pp. 6742-6748.	
Moreira, Marcos Vicente Cabral, Felipe Gomes de Oliveira Diene, Oumar	Univ. Federal do Rio de Janeiro Univ. Federal do Rio de Janeiro Univ. Federal do Rio de Janeiro

15:40-16:00	ThB05.6	Maile 1
<i>Attraction-Based Receding Horizon Path Planning with Temporal Logic Constraints</i> , pp. 6749-6754.		
Svorenova, Maria	Masaryk Univ.	Univ. of Illinois, Urbana-Champaign
Tumova, Jana	Masaryk Univ.	Univ. of Illinois, Urbana-Champaign
Barnat, Jiri	Masaryk Univ.	Univ. of Illinois, Urbana-Champaign
Cerna, Ivana	Masaryk Univ.	Univ. of Illinois, Urbana-Champaign
ThB06	Plumeria 3	
Robust Estimation of Uncertain Systems I (Invited Session)		
Chair: Efimov, Denis	INRIA - LNE	
Co-Chair: Mazenc, Frederic	EPI INRIA DISCO	
Organizer: Efimov, Denis	INRIA - LNE	
Organizer: Raïssi, Tarek	Conservatoire National des Arts et Métiers	
14:00-14:20	ThB06.1	ThB07.1
<i>Interval Observers for Discrete-Time Systems (I)</i> , pp. 6755-6760.		
Mazenc, Frederic	EPI INRIA DISCO	Univ. of California, Berkeley
Dinh, Thach N.	LSS, Supelec	Univ. of California, Berkeley
Niculescu, Silviu-Iulian	CNRS-Supelec	Univ. of California, Berkeley
14:20-14:40	ThB06.2	ThB07.2
<i>Robustly Optimal Filter Design for Nonlinear Systems (I)</i> , pp. 6761-6766.		
Novara, Carlo	Pol. di Torino	Univ. of Illinois at Urbana-Champaign
Ruiz, Fredy	Pontificia Univ. Javeriana	Duke Univ.
Milanese, Mario	Modelway srl	
14:40-15:00	ThB06.3	ThB07.3
<i>On Set-Membership Observer Design for a Class of Periodical Time-Varying Systems (I)</i> , pp. 6767-6772.		
Efimov, Denis	INRIA - LNE	
Raïssi, Tarek	Conservatoire National des Arts et Métiers	
Chebotarev, Stanislav	Saint Petersburg State Univ. of ITMO	
Zolghadri, Ali	Univ. Bordeaux	
15:00-15:20	ThB06.4	ThB07.4
<i>Generation of Worst-Case Input Signals Based on the Guaranteed Sampling of Linear Interval Predictors with Non-Held Uncertain Inputs (I)</i> , pp. 6773-6779.		
Combastel, Christophe	ENSEA	
15:20-15:40	ThB06.5	
<i>Construction of ISS Interval Observers for Triangular Systems (I)</i> , pp. 6780-6785.		
Mazenc, Frederic	EPI INRIA DISCO	
Bernard, Olivier	Inria	
15:40-16:00	ThB06.6	ThB07.5
<i>Rejection of Sinusoidal Disturbance Approach Based on High-Gain Principle (I)</i> , pp. 6786-6791.		
Bobtsov, Alexey	St. Petersburg National Res. Univ. ITMO	Princeton Univ.
Kolyubin, Sergey	St. Petersburg National Res. Univ. ITMO	Univ. of Liège
Pyrkin, Anton	St. Petersburg National Res. Univ. ITMO	Télécom ParisTech
ThB08	Maile 2	
Stability of Hybrid Systems (Regular Session)		
Chair: Nesic, Dragan	Univ. of Melbourne	
Co-Chair: Liu, Bin	Australian National Univ.	

14:00-14:20	ThB08.1
<i>Small-Gain Theorems of LaSalle Type for Hybrid Systems</i> , pp. 6825-6830.	
Liberzon, Daniel	Univ. of Illinois, Urbana-Champaign
Nesic, Dragan	Univ. of Melbourne
Teel, Andrew R.	Univ. of California, Santa Barbara
14:20-14:40	ThB08.2
<i>Constructions of ISS-Lyapunov Functions for Interconnected Impulsive Systems</i> , pp. 6831-6836.	
Dashkovskiy, Sergey	Univ. of Applied Sciences Erfurt
Mironchenko, Andrii	Univ. of Würzburg
14:40-15:00	ThB08.3
<i>Control Lyapunov Functions and Hybrid Zero Dynamics</i> , pp. 6837-6842.	
Ames, Aaron	Texas A&M Univ.
Galloway, Kevin	Univ. of Michigan
Grizzle, Jessy W.	Univ. of Michigan
15:00-15:20	ThB08.4
<i>Probability-Based Feedback Gain Scheduling for Stabilizing Switched Linear Stochastic Systems under Delayed Sampled Mode Information</i> , pp. 6843-6848.	
Cetinkaya, Ahmet	Tokyo Inst. of Tech.
Hayakawa, Tomohisa	Tokyo Inst. of Tech.
15:20-15:40	ThB08.5
<i>Stability for Hybrid Event Systems</i> , pp. 6849-6854.	
Liu, Bin	Australian National Univ.
Hill, David J.	Univ. of Sydney
15:40-16:00	ThB08.6
<i>Averaging in Singularly Perturbed Hybrid Systems with Hybrid Boundary Layer Systems</i> , pp. 6855-6860.	
Wang, Wei	Univ. of Melbourne
Teel, Andrew R.	Univ. of California, Santa Barbara
Nesic, Dragan	Univ. of Melbourne
ThB09	Maile 3
Advances in Fractional Order Systems and Control (Invited Session)	
Chair: Torres, Delfim F. M.	Univ. of Aveiro
Co-Chair: Pisano, Alessandro	Univ. of Cagliari
Organizer: Caponetto, Riccardo	Univ. of Catania
Organizer: Pisano, Alessandro	Univ. of Cagliari
14:00-14:20	ThB09.1
<i>A Fractional Order Maximum Power Point Tracker: Stability Analysis and Experiments (I)</i> , pp. 6861-6866.	
Malek, Hadi	Energy Dynamics Lab.
Dadras, Sara	Tarbiat Modares Univ.
Chen, YangQuan	Univ. of California, Merced
14:20-14:40	ThB09.2
<i>A Survey of Fractional-Order Generalized Predictive Control (I)</i> , pp. 6867-6872.	
Romero, Miguel	UNED
de Madrid, Angel P.	UNED
Manoso, C.	UNED
Vinagre, B. M.	Univ. de Extremadura
14:40-15:00	ThB09.3
<i>Variable Order Fractional Variational Calculus for Double Integrals (I)</i> , pp. 6873-6878.	
Odzijewicz, Tatiana	Univ. of Aveiro
Malinowska, Agnieszka B.	Bialystok Univ. of Tech.
Torres, Delfim F. M.	Univ. of Aveiro
15:00-15:20	ThB09.4
<i>Adaptive Identification of the Commensurate Order in Fractional Processes by Means of Variable-Order Operators (I)</i> , pp. 6879-6884.	
Rapaic, Milan R.	Univ. of Novi Sad
Pisano, Alessandro	Univ. degli Studi di Cagliari
Usai, Elio	Univ. degli Studi di Cagliari
Jelicic, Zoran D.	Univ. of Novi Sad
15:20-15:40	ThB09.5
<i>Fractional Noether's Theorem with Classical and Riemann-Liouville Derivatives (I)</i> , pp. 6885-6890.	
Frederico, Gastão S. F.	Univ. of Cape Verde
Torres, Delfim F. M.	Univ. of Aveiro
15:40-16:00	ThB09.6
<i>Stability Analysis of Fractional Neutral Time-Delay Systems with Multiple Chains of Poles Asymptotic to Same Points in the Imaginary Axis</i> , pp. 6891-6895.	
Nguyen, Le Ha Vy	INRIA Saclay-Ile-de-France
Bonnet, Catherine	INRIA Saclay-Ile-de-France
ThB10	
Pikake 1	
Decentralized Control II (Regular Session)	
Chair: Angeli, David	Imperial Coll.
Co-Chair: Aghdam, Amir G.	Concordia Univ.
14:00-14:20	ThB10.1
<i>A Stochastic Approach to Distributed Power Frequency Control by Means of Smart Appliances</i> , pp. 6896-6901.	
Angeli, David	Imperial Coll.
Astolfi, Alessandro	Imperial Coll. & Univ. of Rome
14:20-14:40	ThB10.2
<i>Building Temperature Control: A Passivity-Based Approach</i> , pp. 6902-6907.	
Mukherjee, Sumit	Rensselaer Pol. Inst.
Mishra, Sandipan	Rensselaer Pol. Inst.
Wen, John T.	Rensselaer Pol. Inst.
14:40-15:00	ThB10.3
<i>On the Decentralized H2 Optimal Control of Bilateral Teleoperation Systems with Time Delays (I)</i> , pp. 6908-6914.	
Kristalny, Maxim	Lund Univ.
Cho, Jang Ho	Lund Univ.
15:00-15:20	ThB10.4
<i>Stability Certificates for Networks of Heterogeneous Linear Systems</i> , pp. 6915-6920.	
Pates, Richard	Univ. of Cambridge
Vinnicombe, Glenn	Univ. of Cambridge

15:20-15:40	ThB10.5	
<i>Decentralized Pole-Placement Using Generalized Sampled-Data Hold Functions</i> , pp. 6921-6925.		
Tousi, Mani Ajourlou, Amir Mahboubi, Hamid Aghdam, Amir G.	Concordia Univ. Concordia Univ. Concordia Univ. Concordia Univ.	
15:40-16:00	ThB10.6	
<i>Decentralized Control Over Analog Erasure Links</i> , pp. 6926-6931.		
Liu, Jie Gupta, Vijay	Univ. of Notre Dame Univ. of Notre Dame	
ThB11	Pikake 2	
Modeling and Control of Building Systems I (Invited Session)		
Chair: Alleyne, Andrew G.	Univ. of Illinois, Urbana-Champaign	
Co-Chair: Mehta, Prashant G.	Univ. of Illinois, Urbana-Champaign	
Organizer: Alleyne, Andrew G.	Univ. of Illinois, Urbana-Champaign	
Organizer: Barooah, Prabir	Univ. of Florida	
Organizer: Eisenhower, Bryan	Univ. of California, Santa Barbara	
Organizer: Mehta, Prashant G.	Univ. of Illinois, Urbana-Champaign	
14:00-14:20	ThB11.1	
<i>Issues in Identification of Control-Oriented Thermal Models of a Zone in a Multi-Zone Building (I)</i> , pp. 6932-6937.		
Lin, Yashen Barooah, Prabir Middelkoop, Timothy	Univ. of Florida Univ. of Florida Univ. of Florida	
14:20-14:40	ThB11.2	
<i>A Comparison of Thermal Zone Aggregation Methods (I)</i> , pp. 6938-6944.		
Dobbs, Justin Hencey, Brandon	Cornell Univ. Cornell Univ.	
14:40-15:00	ThB11.3	
<i>Uncertainty in the Energy Dynamics of Commercial Office Buildings (I)</i> , pp. 6945-6950.		
Eisenhower, Bryan Mezic, Igor	Univ. of California, Santa Barbara Univ. of California, Santa Barbara	
15:00-15:20	ThB11.4	
<i>Parameter Identifiability for Multi-Zone Building Models (I)</i> , pp. 6951-6956.		
Agbi, Clarence Song, Zhen Krogh, Bruce H.	Carnegie Mellon Univ. Siemens Corp. Res. Carnegie Mellon Univ.	
15:20-15:40	ThB11.5	
<i>A Set-Based Estimation of Heat Loads for Energy Management in Building Systems (I)</i> , pp. 6957-6962.		
Guay, Martin Dhaliwal, Samandeep	Queen's Univ. Queen's Univ.	
15:40-16:00	ThB11.6	
<i>HVAC Control Using Infinite-Horizon Economic MPC (I)</i> , pp. 6963-6968.		
Mendoza-Serrano, David Chmielewski, Donald J.	Illinois Inst. of Tech. Illinois Inst. of Tech.	
ThB12	Pikake 3	
Traffic Flow Modeling, Identification, and Control (Invited Session)		
Chair: Nuñez, Alfredo Co-Chair: Ferrara, Antonella Organizer: Bianchi, Domenico Organizer: Nuñez, Alfredo Organizer: Ferrara, Antonella	Delft Univ. of Tech. Univ. of Pavia Univ. of L'Aquila Delft Univ. of Tech. Univ. of Pavia	
14:00-14:20	ThB12.1	
<i>Optimal Balancing of Road Traffic Density Distributions for the Cell Transmission Model (I)</i> , pp. 6969-6974.		
Pisarski, Dominik Canudas de Wit, Carlos	INRIA GRENOBLE CNRS, GIPSA-Lab.	
14:20-14:40	ThB12.2	
<i>An Event-Triggered Model Predictive Control Scheme for Freeway Systems (I)</i> , pp. 6975-6982.		
Ferrara, Antonella Nai Oleari, Alberto Sacone, Simona Siri, Silvia	Univ. of Pavia Univ. of Pavia Univ. of Genova Univ. of Genova	
14:40-15:00	ThB12.3	
<i>A Parameter Identification Algorithm for the METANET Model with a Limited Number of Loop Detectors (I)</i> , pp. 6983-6988.		
Frejo, Jose Ramon D. Camacho, Eduardo F. Horowitz, Roberto	Univ. de Sevilla Univ. de Sevilla Univ. of California at Berkeley	
15:00-15:20	ThB12.4	
<i>How Can Macroscopic Models Reveal Self-Organization in Traffic Flow? (I)</i> , pp. 6989-6994.		
Cristiani, Emiliano Piccoli, Benedetto Tosin, Andrea	Consiglio Nazionale delle Ricerche Rutgers Univ. Consiglio Nazionale delle Ricerche	
15:20-15:40	ThB12.5	
<i>Distributed Identification of Fuzzy Confidence Intervals for Traffic Measurements (I)</i> , pp. 6995-7000.		
Nuñez, Alfredo De Schutter, Bart	Delft Univ. of Tech. Delft Univ. of Tech.	
15:40-16:00	ThB12.6	
<i>Traffic Light Control Using Infinitesimal Perturbation Analysis</i> , pp. 7001-7006.		
Geng, Yanfeng Cassandras, Christos G.	Boston Univ. Boston Univ.	
ThB13	Ilma 1	
Process Control II (Regular Session)		
Chair: Qin, S. Joe Co-Chair: Sjöberg, Johan	Univ. of Southern California ABB AB	

14:00-14:20	ThB13.1
<i>Online Integration of Scheduling and Control for Cyclic Production in CSTR</i> , pp. 7007-7012.	
Chu, Yunfei	Northwestern Univ.
You, Fengqi	Northwestern Univ.
14:20-14:40 ThB13.2	
<i>Numerical Backstepping for Diameter Control of Silicon Ingots in the Czochralski Process</i> , pp. 7013-7017.	
Rahmanpour, Parsa	Norwegian Univ. of Science & Tech.
Hovd, Morten	Norwegian Univ. of Sci & Tech.
14:40-15:00 ThB13.3	
<i>Concurrent Projection to Latent Structures for Output-Relevant and Input-Relevant Fault Monitoring</i> , pp. 7018-7023.	
Qin, S. Joe	Univ. of Southern California
Zheng, Yingying	Univ. of Southern California
15:00-15:20 ThB13.4	
<i>An Improved Predictive Optimal Controller with Elastic Search Space for Steam Temperature Control of Large-Scale Supercritical Power Unit</i> , pp. 7024-7029.	
Ma, Liangyu	North China Electric Power Univ.
Lee, Kwang Y.	Baylor Univ.
Ge, Yinping	North China Electric Power Univ.
15:20-15:40 ThB13.5	
<i>Interactive Multiobjective Optimization for the Hot Rolling Process</i> , pp. 7030-7036.	
Sjöberg, Johan	ABB Corp. Res. AB
Lindkvist, Simon	ABB Corp. Res. AB
Linder, Jonas	Linköping Univ.
Daneryd, Anders	ABB Corp. Res. AB
15:40-16:00 ThB13.6	
<i>Enthalpy-Based Feedback Control Algorithms for the Stefan Problem</i> , pp. 7037-7042.	
Petrus, Bryan	Univ. of Illinois at Urbana-Champaign
Bentsman, Joseph	Univ. of Illinois at Urbana-Champaign
Thomas, Brian G.	Univ. of Illinois at Urbana-Champaign
ThB14 Ilima 2	
Optimal Control II (Regular Session)	
Chair: Ntogramatzidis, Lorenzo	Curtin Univ.
Co-Chair: Fontes, Fernando A. C. C.	Univ. do Porto
14:00-14:20 ThB14.1	
<i>A Reduction Technique for Generalised Riccati Difference Equations Arising in Linear-Quadratic Optimal Control</i> , pp. 7043-7048.	
Ferrante, Augusto	Univ. di Padova
Ntogramatzidis, Lorenzo	Curtin Univ.
14:20-14:40 ThB14.2	
<i>Semistability-Based Robust and Optimal Control Design for Network Systems</i> , pp. 7049-7054.	
Hui, Qing	Texas Tech. Univ.
Liu, Zhenyi	Texas Tech. Univ.
ThB14.3	
<i>Discrete-Time Optimal Feedback Control Via Hamilton-Jacobi Theory with an Application to Hybrid Systems</i> , pp. 7055-7062.	
Lee, Taeyoung	George Washington Univ.
15:00-15:20 ThB14.4	
<i>An Optimal Regulation Strategy for Energy Management of Hybrid Electric Vehicles (I)</i> , pp. 7063-7068.	
Sampathnarayanan, Balaji	Ohio State Univ.
Onori, Simona	Ohio State Univ.
Yurkovich, Stephen	Univ. of Texas at Dallas
15:20-15:40 ThB14.5	
<i>An Optimal Control Approach to the Unit Commitment Problem</i> , pp. 7069-7074.	
Fontes, Fernando A. C. C.	Univ. do Porto
Fontes, Dalila B. M. M.	Univ. do Porto
Roque, Luis	ISEP
15:40-16:00 ThB14.6	
<i>Multiple-Input Cultivation Model Based Optimization of Penicillin Production</i> , pp. 7075-7080.	
Pocloka, Matej	Czech Tech. Univ. in Prague
Celikovsky, Sergej	Inst. of Information Theory and Automation
ThB15 Ilima 3	
Sliding Mode Control II (Regular Session)	
Chair: Cavallo, Alberto	Seconda Univ. degli Studi di Napoli
Co-Chair: Vazquez, Carlos	National Autonomous Univ. of Mexico
14:00-14:20 ThB15.1	
<i>A Study of Duopolistic Dynamics with Competitive Advertising Based on State-Dependent Switching Behavior</i> , pp. 7081-7087.	
Kaszkurewicz, Eugenius	Univ. Federal de Rio de Janeiro
Bhaya, Amit	Univ. Federal de Rio de Janeiro
14:20-14:40 ThB15.2	
<i>Sliding Mode Control for DC/DC Converters</i> , pp. 7088-7094.	
Cavallo, Alberto	Seconda Univ. degli Studi di Napoli
Guida, Beniamino	Seconda Univ. degli studi di Napoli
14:40-15:00 ThB15.3	
<i>A Robust Controller Based on Adaptive Super-Twisting Algorithm for a 3DOF Helicopter</i> , pp. 7095-7100.	
Plestan, Franck	Ec. Centrale de Nantes, IRCCyN
Chriette, Abdelhamid	Ec. Centrale de Nantes, IRCCyN
15:00-15:20 ThB15.4	
<i>Practical Relative Degree in Black-Box Control</i> , pp. 7101-7106.	
Levant, Arie	Tel - Aviv Univ.
15:20-15:40 ThB15.5	
<i>High Performance Quasi-Continous HOSM Controller for Sensorless IPMSM Based on Adaptive Interconnected Observer</i> , pp. 7107-7112.	
Hamida, Mohamed Assaad	Ec. Centrale de Nantes, IRCCyN
Glumineau, Alain	Ec. Centrale de Nantes, IRCCyN
De Leon, Jesus	Univ. Autonoma de Nuevo Leon

15:40-16:00	ThB15.6	Haleakala Ballroom 5	
<i>Global Extremum Seeking Control with Sliding Modes for Output-Feedback Global Tracking of Nonlinear Systems</i> , pp. 7113-7118.			
Yin, Chun	Univ. of California, Merced	Chair: Bullo, Francesco	
Stark, Brandon	Univ. of California, Merced	Co-Chair: Sepulchre, Rodolphe J.	
Zhong, Shou-ming	UEST	Organizer: Bullo, Francesco	
Chen, YangQuan	Univ. of California, Merced	Organizer: Sepulchre, Rodolphe J.	
Organizer: Arcak, Murat	Univ. of California, Berkeley		
ThB16	Haleakala Ballroom 3	14:00-14:40	
Game Theory II (Regular Session)		ThB17.1	
Chair: Zhu, Chao	Univ. of Wisconsin-Milwaukee	<i>Exploring Synchronization in Complex Oscillator Networks (I)</i> , pp. 7157-7170.	
Co-Chair: Sinopoli, Bruno	Carnegie Mellon Univ.	Dörfler, Florian	
14:00-14:20	ThB16.1	Bullo, Francesco	
<i>On the Characterization and Computation of Nash Equilibria on Parallel Networks with Horizontal Queues</i> , pp. 7119-7125.		14:40-15:20	
Krichene, Walid	Univ. of California, Berkeley	ThB17.2	
Reilly, Jack	Univ. of California, Berkeley	<i>Kick Synchronization versus Diffusive Synchronization (I)</i> , pp. 7171-7183.	
Amin, Saurabh	Massachusetts Inst. of Tech.	Mauroy, Alexandre	
Bayen, Alexandre M.	Univ. of California, Berkeley	Sacré, Pierre	
		Sepulchre, Rodolphe J.	
14:20-14:40	ThB16.2	15:20-16:00	
<i>On Stackelberg Routing on Parallel Networks with Horizontal Queues</i> , pp. 7126-7132.		ThB17.3	
Krichene, Walid	Univ. of California, Berkeley	<i>Synchronization and Pattern Formation in Diffusively Coupled Systems (I)</i> , pp. 7184-7192.	
Reilly, Jack	Univ. of California, Berkeley	Arcak, Murat	
Amin, Saurabh	Massachusetts Inst. of Tech.	Univ. of California, Berkeley	
Bayen, Alexandre M.	Univ. of California, Berkeley		
14:40-15:00	ThB16.3	ThC01	Hibiscus 1
<i>Adversarial Detection As a Zero-Sum Game (I)</i> , pp. 7133-7138.		Event-Based Control (Invited Session)	
Vamvoudakis, Kyriakos	Univ. of California, Santa Barbara	Chair: Hirche, Sandra	Tech. Univ. München
Hespanha, Joao P.	Univ. of California, Santa Barbara	Co-Chair: Johansson, Karl H.	KTH Royal Inst. of Tech.
Sinopoli, Bruno	Carnegie Mellon Univ.	Organizer: Hirche, Sandra	Tech. Univ. München
Mo, Yilin	Carnegie Mellon Univ.	Organizer: Johansson, Karl H.	KTH Royal Inst. of Tech.
		Organizer: Heemels, W.P.M.H.	Eindhoven Univ. of Tech.
15:00-15:20	ThB16.4	16:30-16:50	ThC01.1
<i>Tracking Equilibria with Markovian Evolution (I)</i> , pp. 7139-7144.		<i>Aperiodic Model Predictive Control Via Perturbation Analysis (I)</i> , pp. 7193-7198.	
Namvar Gharehshiran, Omid	Univ. of British Columbia	Eqtami, Alina	National Tech. Univ. of Athens
Krishnamurthy, Vikram	Univ. of British Columbia	Dimarogonas, Dimos V.	KTH Royal Inst. of Tech.
Yin, George	Wayne State Univ.	Kyriakopoulos, Kostas J.	National Tech. Univ. of Athens
15:20-15:40	ThB16.5	16:50-17:10	ThC01.2
<i>Dynamic Stochastic Games with Asymmetric Information</i> , pp. 7145-7150.		<i>Synchronization of Dynamical Networks with Distributed Event-Based Communication</i> , pp. 7199-7204.	
Nayyar, Ashutosh	Univ. of Illinois, Urbana-Champaign	Liu, Tao	Univ. of Groningen
Basar, Tamer	Univ. of Illinois, Urbana-Champaign	Hill, David J.	Univ. of Sydney
		Liu, Bin	Australian National Univ.
15:40-16:00	ThB16.6	17:10-17:30	ThC01.3
<i>On Games with Coupled Constraints</i> , pp. 7151-7156.		<i>Stability Analysis of Multiple State-Based Schedulers with CSMA (I)</i> , pp. 7205-7211.	
Arslan, Gurdal	Univ. of Hawaii at Manoa	Ramesh, Chithrupa	KTH Royal Inst. of Tech.
Demirkol, M. Fatih	Turkcell Iletisim Hizmetleri, A.S.	Sandberg, Henrik	KTH Royal Inst. of Tech.
Yuksel, Serdar	Queen's Univ.	Johansson, Karl H.	KTH Royal Inst. of Tech.

17:30-17:50	ThC01.4	
<i>Dynamic Programming Formulation of Periodic Event-Triggered Control: Performance Guarantees and Co-Design (I)</i> , pp. 7212-7217.		
Antunes, Duarte Heemels, W.P.M.H. Tabuada, Paulo	Eindhoven Univ. of Tech. Eindhoven Univ. of Tech. Univ. of California, Los Angeles	
17:50-18:10	ThC01.5	
<i>Formation Control of Multi-Agent Systems with Connectivity Preservation by Using Both Event-Driven and Time-Driven Communication</i> , pp. 7218-7223.		
Yu, Han Antsaklis, Panos J.	Univ. of Notre Dame Univ. of Notre Dame	
18:10-18:30	ThC01.6	
<i>Smart Energy-Aware Sensors for Event-Based Control (I)</i> , pp. 7224-7229.		
Cardoso de Castro, Nicolas Quevedo, Daniel E. Garin, Federica Canudas de Wit, Carlos	INRIA Univ. of Newcastle INRIA CNRS, GIPSA-Lab.	
ThC02	Hibiscus 2	
Modeling, Analysis, and Control of Software Systems (Invited Session)		
Chair: Lafourte, Stephane Co-Chair: Wang, Yin Organizer: Lafourte, Stephane Organizer: Wang, Yin	Univ. of Michigan Hewlett-Packard Univ. of Michigan Hewlett-Packard	
16:30-16:50	ThC02.1	
<i>On Atomicity Enforcement in Concurrent Software Via Discrete Event Systems Theory (I)</i> , pp. 7230-7237.		
Wang, Yin Liu, Peng Kelly, Terence Lafourte, Stephane Reveliotis, Spyros Zhang, Charles	Hewlett-Packard Univ. of Science and Tech. Hong Kong Hewlett-Packard Univ. of Michigan Georgia Inst. of Tech. Univ. of Science and Tech. Hong Kong	
16:50-17:10	ThC02.2	
<i>The ACTS Software and Its Supervisory Control Framework (I)</i> , pp. 7238-7243.		
Iordache, Marian Antsaklis, Panos J.	LeTourneau Univ. Univ. of Notre Dame	
17:10-17:30	ThC02.3	
<i>Maximally Permissive Deadlock Avoidance for Sequential Resource Allocation Systems Using Disjunctions of Linear Classifiers (I)</i> , pp. 7244-7251.		
Cordone, Roberto Nazeem, Ahmed Piroddi, Luigi Reveliotis, Spyros	Univ. degli Studi di Milano United Airlines Pol. di Milano Georgia Inst. of Tech.	
17:30-17:50	ThC02.4	
<i>Application of Interface Theories to the Separate Compilation of Synchronous Programs (I)</i> , pp. 7252-7258.		
Benveniste, Albert Caillaud, Benoit Raclet, Jean-Baptiste	IRISA-INRIA IRISA / INRIA Rennes IRIT	
17:50-18:10	ThC02.5	
<i>Supervisory Control of Extended Finite Automata Using Transition Projection</i> , pp. 7259-7266.		
Shoaei, Mohammad Reza Feng, Lei Lennartson, Bengt	Chalmers Univ. of Tech. KTH Royal Inst. of Tech. Chalmers Univ. of Tech.	
18:10-18:30	ThC02.6	
<i>Throughput Regulation in Multicore Processors Via IPA</i> , pp. 7267-7272.		
Almoosa, Nawaf Song, William Wardi, Yorai Yalamanchili, Sudhakar	Georgia Inst. of Tech. Georgia Inst. of Tech. Georgia Inst. of Tech. Georgia Inst. of Tech.	
ThC03	Hibiscus 3	
Robust Adaptive Control (Regular Session)		
Chair: Poznyak, Alexander S. Co-Chair: Dashkovskiy, Sergey	CINVESTAV-IPN Univ. of Applied Sciences Erfurt	
16:30-16:50	ThC03.1	
<i>Robust Sampled-Data Adaptive Control of the Rohrs Counterexamples</i> , pp. 7273-7278.		
Sumer, Dogan Bernstein, Dennis S.	Univ. of Michigan Univ. of Michigan	
16:50-17:10	ThC03.2	
<i>Robust Output Feedback Stabilization of Axial Flow Compressors with Uncertain Compressor Characteristics</i> , pp. 7279-7284.		
Jiang, tiantian	Chinese Acad. of Sciences	
17:10-17:30	ThC03.3	
<i>The Furuta's Pendulum Stabilization without the Use of a Mathematical Model: Attractive Ellipsoid Method with KL-Adaptation</i> , pp. 7285-7290.		
Ordaz, Patricio Poznyak, Alexander S.	CINVESTAV CINVESTAV-IPN	
17:30-17:50	ThC03.4	
<i>Design of Adaptive Controllers for Nonlinear Switched Systems with Arbitrary Switchings</i> , pp. 7291-7296.		
Dashkovskiy, Sergey Pavlichkov, Svyatoslav	Univ. of Applied Sciences Erfurt Univ. of Applied Sciences Erfurt	
17:50-18:10	ThC03.5	
<i>Guaranteed Delay Margins for Adaptive Control of Scalar Plants</i> , pp. 7297-7302.		
Matsutani, Megumi Annaswamy, Anuradha Lavretsky, Eugene	Massachusetts Inst. of Tech. Massachusetts Inst. of Tech. Boeing Co.	

18:10-18:30	ThC03.6	
<i>L1 Adaptive Controller for MIMO System with Unmatched Uncertainties Using Modified Piecewise Constant Adaptation Law</i> , pp. 7303-7308.		Plumeria 2
Li, Zhiyuan	Univ. of Illinois, Urbana-Champaign	Nanyang Tech. Univ.
Hovakimyan, Naira	Univ. of Illinois, Urbana-Champaign	Univ. of Texas at Arlington
		Nanyang Tech. Univ.
		Univ. of Texas at Arlington
ThC04	Plumeria 1	ThC05.1
Developments in Stochastic Systems, Identification, and Control (Invited Session)		<i>Decentralized Discrete-Event Modeling and Control of Task Execution for Robotic Networks (I)</i> , pp. 7346-7351.
Chair: Pasik-Duncan, Bozenna	Univ. of Kansas	Gasperri, Andrea
Co-Chair: Prandini, Maria	Pol. di Milano	Di Paola, Donato
Organizer: Pasik-Duncan, Bozenna	Univ. of Kansas	Naso, David
Organizer: Prandini, Maria	Pol. di Milano	Lewis, Frank L.
16:30-16:50	ThC04.1	Univ. "Roma Tre"
<i>Optimal Dividend Payment Problems in Piecewise-Deterministic Compound Poisson Risk Models (I)</i> , pp. 7309-7314.		National Res. Council (CNR)
Feng, Runhuan	Univ. of Wisconsin, Milwaukee	Pol. di Bari
Zhang, Shuaiqi	Central South Univ.	Univ. of Texas at Arlington
Zhu, Chao	Univ. of Wisconsin, Milwaukee	
16:50-17:10	ThC04.2	
<i>A Randomized Approach to Stochastic Model Predictive Control (I)</i> , pp. 7315-7320.		Symbolic Computation of Nonblocking Control Function for Timed Discrete Event Systems (I), pp. 7352-7359.
Prandini, Maria	Pol. di Milano	Miremadi, Sajed
Garatti, Simone	Pol. Di Milano	Fei, Zhennan
Lygeros, John	ETH Zurich	Akesson, Knut
17:10-17:30	ThC04.3	Lennartson, Bengt
<i>Sign-Perturbed Sums (SPS): A Method for Constructing Exact Finite-Sample Confidence Regions for General Linear Systems (I)</i> , pp. 7321-7326.		Chalmers Univ. of Tech.
Csáji, Balázs Csanád	Univ. of Melbourne	Chalmers Univ. of Tech.
Campi, M. C.	Univ. di Brescia	Chalmers Univ. of Tech.
Weyер, Erik	Univ. of Melbourne	Chalmers Univ. of Tech.
17:30-17:50	ThC04.4	Chalmers Univ. of Tech.
<i>A Novel Approach to Model Error Modelling Using the Expectation-Maximization Algorithm (I)</i> , pp. 7327-7332.		ThC05.3
Delgado, Ramon A.	Univ. of Newcastle	<i>A ; fYYXmAlgorithm for Computing Finite-Makespan Controllable Sublanguages (I)</i> , pp. 7360-7365.
Goodwin, Graham C.	Univ. of Newcastle	Su, Rong
Carvajal, Rodrigo	Univ. of Newcastle	Nanyang Tech. Univ.
Agüero, Juan C.	Univ. of Newcastle	
17:50-18:10	ThC04.5	
<i>Experiment Design for the Identification of a Simple Wiener System (I)</i> , pp. 7333-7338.		ThC05.4
Gevers, Michel	Univ. Catholique de Louvain, and Vrije Univ. Brussels	<i>Structured Modeling, Analysis, and Control of Complex Railway Operations (I)</i> , pp. 7366-7371.
Caenepeel, Matthias	Vrije Univ. Brussels	van den Boom, Ton J. J.
Schoukens, Johan	Vrije Univ. Brussels	Kersbergen, Bart
18:10-18:30	ThC04.6	De Schutter, Bart
<i>Stochastic Controllability and Its Role in Network Congestion Control (I)</i> , pp. 7339-7345.		Delft Univ. of Tech.
Liu, Andrew R.	Cymer	Delft Univ. of Tech.
Bitmead, Robert	Univ. of California, San Diego	Delft Univ. of Tech.
ThC06	Plumeria 3	ThC05.5
Robust Estimation of Uncertain Systems II (Invited Session)		<i>A Continuum Description for a DES Control Problem (I)</i> , pp. 7372-7376.
Chair: Efimov, Denis	INRIA - LNE	Arizona State Univ.
Co-Chair: Fridman, Leonid M.	Univ. Nacional Autonoma de Mexico	RWTH Aachen
Organizer: Efimov, Denis	INRIA - LNE	Arizona State Univ.
Organizer: Raïssi, Tarek	Conservatoire National des Arts et Métiers	

16:30-16:50	ThC06.1	
<i>The Differentiation Error of Noisy Signals Using the Generalized Super-Twisting Differentiator (I)</i> , pp. 7383-7388.		
Angulo, Marco Tulio	Univ. Nacional Autonoma de Mexico	
Moreno, Jaime A.	Univ. Nacional Autonoma de Mexico	
Fridman, Leonid M.	Univ. Nacional Autonoma de Mexico	
16:50-17:10	ThC06.2	
<i>An Algebraic Approach for Human Posture Estimation in the Sagittal Plane Using Accelerometer Noisy Signal (I)</i> , pp. 7389-7394.		
Perruquetti, Wilfrid	Ec. Centrale de Lille	
Bonnet, Vincent	Lirmm	
Mboup, Mamadou	Univ. de Reims Champagne Ardenne	
Ushirobira, Rosane	Inria Lille - Nord Europe & Univ. de Bourgogne	
Fraisse, Philippe	Lirmm	
17:10-17:30	ThC06.3	
<i>Discrete State Reconstruction for Mechanical Switched Systems Using High-Order Sliding-Mode Identification Techniques (I)</i> , pp. 7395-7400.		
Ríos, Héctor	Univ. Nacional Autonoma de Mexico	
Davila, Jorge	National Pol. Inst.	
Fridman, Leonid M.	Univ. Nacional Autonoma de Mexico	
17:30-17:50	ThC06.4	
<i>Estimation of Reachability Sets for Large-Scale Uncertain Systems: From Theory to Computation (I)</i> , pp. 7401-7406.		
Daryin, Alexander	Moscow State (Lomonosov) Univ.	
Kurzhanski, A.B.	Univ. of California at Berkeley	
17:50-18:10	ThC06.5	
<i>Observers Design for a Class of Nonlinear Singular Systems, pp. 7407-7412.</i>		
Boutat, Driss	Ensi de Bourges	
Zheng, Gang	INRIA	
Boutat-Baddas, Latifa	Centre de Recherche d'Automatique de Nancy (CRAN)	
Darouach, Mohamed	Univ. de Lorraine, CRAN-CNRS	
ThC07	Maile 1	
Distributed Learning, Coordination, and Games (Invited Session)		
Chair: Shamma, Jeff S.	Georgia Inst. of Tech.	
Co-Chair: Baras, John S.	Univ. of Maryland	
Organizer: Shamma, Jeff S.	Georgia Inst. of Tech.	
Organizer: Baras, John S.	Univ. of Maryland	
16:30-16:50	ThC07.1	
<i>Robust Distributed Routing in Dynamical Networks with Cascading Failures (I)</i> , pp. 7413-7418.		
Como, Giacomo	Lund Univ.	
Savla, Ketan	Univ. of Southern California	
Acemoglu, Daron	Massachusetts Inst. of Tech.	
Dahleh, Munther A.	Massachusetts Inst. of Tech.	
Frazzoli, Emilio	Massachusetts Inst. of Tech.	
16:50-17:10	ThC07.2	
<i>Achieving Pareto Optimality through Distributed Learning (I)</i> , pp. 7419-7424.		
Marden, Jason	Univ. of Colorado, Boulder	
Young, H.Peyton	Johns Hopkins Univ.	
Pao, Lucy Y.	Univ. of Colorado, Boulder	
17:10-17:30	ThC07.3	
<i>A Randomized Gossip Consensus Algorithm on Convex Metric Spaces (I)</i> , pp. 7425-7430.		
Matei, Ion	Univ. of Maryland	
Somarakis, Christoforos	Univ. of Maryland	
Baras, John S.	Univ. of Maryland	
17:30-17:50	ThC07.4	
<i>Necessary and Sufficient Conditions for the Stabilizability of a Class of LTI Distributed Observers (I)</i> , pp. 7431-7436.		
Park, Shinkyu	Univ. of Maryland	
Martins, Nuno C.	Univ. of Maryland	
17:50-18:10	ThC07.5	
<i>Conditions for Learning in Generalized Tandem Networks (I)</i> , pp. 7437-7444.		
Drakopoulos, Kimon	Massachusetts Inst. of Tech.	
Ozdaglar, Asu	Massachusetts Inst. of Tech.	
Tsitsiklis, John	Massachusetts Inst. of Tech.	
18:10-18:30	ThC07.6	
<i>Population Games, Stable Games, and Passivity (I)</i> , pp. 7445-7450.		
Fox, Michael J.	Georgia Inst. of Tech.	
Shamma, Jeff S.	Georgia Inst. of Tech.	
ThC08	Maile 2	
Distributed Optimization in Peer-To-Peer Networks (Invited Session)		
Chair: Allgower, Frank	Univ. of Stuttgart	
Co-Chair: Notarstefano, Giuseppe	Univ. del Salento	
Organizer: Allgower, Frank	Univ. of Stuttgart	
Organizer: Bürger, Mathias	Univ. of Stuttgart	
Organizer: Notarstefano, Giuseppe	Univ. del Salento	
16:30-16:50	ThC08.1	
<i>Continuous-Time Distributed Convex Optimization on Weight-Balanced Digraphs (I)</i> , pp. 7451-7456.		
Gharesifard, Bahman	Univ. of Illinois, Urbana-Champaign	
Cortes, Jorge	Univ. of California, San Diego	
16:50-17:10	ThC08.2	
<i>Distributed Robust Optimization Via Cutting-Plane Consensus (I)</i> , pp. 7457-7463.		
Bürger, Mathias	Univ. of Stuttgart	
Notarstefano, Giuseppe	Univ. del Salento	
Allgower, Frank	Univ. of Stuttgart	
17:10-17:30	ThC08.3	
<i>A Comparative Analysis of the Fast-Lipschitz Convergence Speed (I)</i> , pp. 7464-7469.		
Jakobsson, Martin	KTH Royal Inst. of Tech.	
Fischione, Carlo	KTH Royal Inst. of Tech.	

17:30-17:50	ThC08.4	
<i>Network Optimization under Uncertainty (I)</i> , pp. 7470-7475.		
Zargham, Michael Ribeiro, Alejandro Jadbabaie, Ali	Univ. of Pennsylvania Univ. of Pennsylvania Univ. of Pennsylvania	
17:50-18:10	ThC08.5	
<i>A Regularized Saddle-Point Algorithm for Networked Optimization with Resource Allocation Constraints (I)</i> , pp. 7476-7481.		
Simonetto, Andrea Keviczky, Tamas Johansson, Mikael	Delft Univ. of Tech. Delft Univ. of Tech. KTH Royal Inst. of Tech.	
18:10-18:30	ThC08.6	
<i>On the Kalman-Yakubovich-Popov Lemma for Positive Systems (I)</i> , pp. 7482-7484.		
Rantzer, Anders	Lund Univ.	
ThC09	Maile 3	
Differential Geometric Control Theory and Applications (Invited Session)		
Chair: Zenkov, Dmitry Co-Chair: Sanyal, Amit Organizer: Chyba, Monique Organizer: Marriott, John Organizer: Sanyal, Amit	North Carolina State Univ. New Mexico State Univ. Univ. of Hawaii Univ. of Hawaii New Mexico State Univ.	
16:30-16:50	ThC09.1	
<i>Rolling Motions of Pseudo-Orthogonal Groups (I)</i> , pp. 7485-7491.		
Crouch, Peter Silva Leite, Fátima	Univ. of Hawaii Univ. of Coimbra	
16:50-17:10	ThC09.2	
<i>On Optimal Protocols for Combinations of Chemo and Immunotherapy (I)</i> , pp. 7492-7497.		
Ledzewicz, Urszula Faraji Mosalman, Mozhdeh Sadat Schaettler, Heinz M.	Southern Illinois Univ. Southern Illinois Univ. Washington Univ.	
17:10-17:30	ThC09.3	
<i>Unscented State Estimation for Rigid Body Motion on SE(3) (I)</i> , pp. 7498-7503.		
Bohn, Jan Sanyal, Amit	New Mexico State Univ. New Mexico State Univ.	
17:30-17:50	ThC09.4	
<i>Hamel's Formalism and Variational Integrators on a Sphere (I)</i> , pp. 7504-7510.		
Zenkov, Dmitry Leok, Melvin Bloch, Anthony M.	North Carolina State Univ. Univ. of California, San Diego Univ. of Michigan	
17:50-18:10	ThC09.5	
<i>Fundamental Problems in Geometric Control Theory (I)</i> , pp. 7511-7516.		
Lewis, Andrew D.	Queen's Univ.	
18:10-18:30	ThC09.6	
<i>Extension of the Belitskii Normal Form to Nonlinear Control Systems</i> , pp. 7517-7522.		
Menini, Laura Tornambe, Antonio	Univ. di Roma Tor Vergata Univ. di Roma Tor Vergata	
ThC10		
Sampled Data Control (Regular Session)		
Chair: Mazenc, Frederic Co-Chair: Fridman, Emilia	EPI INRIA DISCO Tel-Aviv Univ.	Pikake 1
16:30-16:50	ThC10.1	
<i>Stabilization of Linear Input Delayed Dynamics under Sampling</i> , pp. 7523-7528.		
Mazenc, Frederic Normand-Cyrot, Marie-Dorothée	EPI INRIA DISCO CNRS-Supélec	
16:50-17:10	ThC10.2	
<i>Sampled-Data Distributed H∞ Control of a Class of Parabolic Systems</i> , pp. 7529-7534.		
Fridman, Emilia Bar am, Netzer	Tel-Aviv Univ. Tel Aviv Univ.	
17:10-17:30	ThC10.3	
<i>Digital Stabilization of Delayed-Input Strict-Feedforward Dynamics</i> , pp. 7535-7540.		
Monaco, Salvatore Normand-Cyrot, Marie-Dorothée Tanasa, Valentin	Univ. di Roma CNRS-Supélec Univ. Pol. Bucharest	
17:30-17:50	ThC10.4	
<i>Stability of Bilinear Sampled-Data Systems with an Emulation of Static State Feedback</i> , pp. 7541-7546.		
Omran, Hassan Hetzl, Laurentiu Richard, Jean-Pierre Lamnabhi-Lagarrigue, Francoise	LAGIS - Ec. Centrale de Lille EC-LILLE. Ec. Centrale de Lille CNRS and EECI	
17:50-18:10	ThC10.5	
<i>Self-Triggered Robust Control of Nonlinear Stochastic Systems</i> , pp. 7547-7552.		
Aggoune, Wohida Castillo-Toledo, Bernardino Di Gennaro, Stefano	ENSEA CINVESTAV-GDL, Mexico Univ. of L'Aquila	
18:10-18:30	ThC10.6	
<i>Observer Based Self-Triggered Control of an Acyclic Interconnection of Linear Plants</i> , pp. 7553-7558.		
Almeida, João Silvestre, Carlos Pascoal, Antonio Manuel	Inst. Superior Técnico Inst. Superior Técnico Inst. Superior Técnico	

ThC11	Pikake 2
Modeling and Control of Building Systems II (Invited Session)	
Chair: Alleyne, Andrew G.	Univ. of Illinois, Urbana-Champaign
Co-Chair: Mehta, Prashant G.	Univ. of Illinois, Urbana-Champaign
Organizer: Alleyne, Andrew G.	Univ. of Illinois, Urbana-Champaign
Organizer: Barooah, Prabir	Univ. of Florida
Organizer: Eisenhower, Bryan	Univ. of California, Santa Barbara
Organizer: Mehta, Prashant G.	Univ. of Illinois, Urbana-Champaign
16:30-16:50	ThC11.1
<i>Fast Stochastic MPC with Optimal Risk Allocation Applied to Building Control Systems (I), pp. 7559-7564.</i>	
Ma, Yudong	University of California, Berkeley
Vichik, Sergey	Technion - Israel Inst. of Tech.
Borrelli, Francesco	University of California, Berkeley
16:50-17:10	ThC11.2
<i>Effect of Various Uncertainties on the Performance of Occupancy-Based Optimal Control of HVAC Zones (I), pp. 7565-7570.</i>	
Goyal, Siddharth	Univ. of Florida
Ingle, Herbert	Univ. of Florida
Barooah, Prabir	Univ. of Florida
17:10-17:30	ThC11.3
<i>Learning Near-Optimal Decision Rules for Energy Efficient Building Control (I), pp. 7571-7576.</i>	
Domahidi, Alexander	ETH Zurich
Ullmann, Fabian	ETH Zurich
Morari, Manfred	ETH Zurich
Jones, Colin N.	École Pol. Fédérale de Lausanne
17:30-17:50	ThC11.4
<i>Green Scheduling for Radiant Systems in Buildings (I), pp. 7577-7582.</i>	
Nghiem, Truong X.	Univ. of Pennsylvania
Behl, Madhur	Univ. of Pennsylvania
Pappas, George J.	Univ. of Pennsylvania
Mangharam, Rahul	Univ. of Pennsylvania
17:50-18:10	ThC11.5
<i>Economic COP Optimization of a Heat Pump with Hierarchical Model Predictive Control (I), pp. 7583-7588.</i>	
Tahersima, Fatemeh	Aalborg Univ.
Stoustrup, Jakob	Aalborg Univ.
Rasmussen, Henrik	Aalborg Univ.
Afkhami Meybodi, Soroush	Aalborg Univ.
18:10-18:30	ThC11.6
<i>Stability Analysis for Decentralized Control of Multi-Evaporator Vapor-Compression Cycle Systems (I), pp. 7589-7595.</i>	
Jain, Neera	Univ. of Illinois, Urbana-Champaign
Sundaram, Shreyas	Univ. of Waterloo
Alleyne, Andrew G.	Univ. of Illinois, Urbana-Champaign

ThC12	Pikake 3
Electrical Motor Control (Regular Session)	
Chair: Blanchini, Franco	Univ. degli Studi di Udine
Co-Chair: Pisano, Alessandro	Univ. of Cagliari
16:30-16:50	ThC12.1
<i>Multi-Phase Synchronous Motors: Minimum Dissipation Fault-Tolerant Control with Currents Saturation, pp. 7596-7601.</i>	
Fei, Marco	Univ. of Modena and Reggio Emilia
Zanasi, Roberto	Univ. of Modena and Reggio Emilia
16:50-17:10	ThC12.2
<i>An LPV Control Scheme for Induction Motors, pp. 7602-7607.</i>	
Blanchini, Franco	Univ. degli Studi di Udine
Casagrande, Daniele	Univ. degli Studi di Udine
Miani, Stefano	Univ. degli Studi di Udine
Viaro, Umberto	Univ. degli Studi di Udine
17:10-17:30	ThC12.3
<i>Signal Injection and Averaging for Position Estimation of Permanent-Magnet Synchronous Motors, pp. 7608-7613.</i>	
Jebai, Al Kasssem	MINES ParisTech
Malrait, Francois	STI
Martin, Philippe	MINES ParisTech
Rouchon, Pierre	MINES ParisTech
17:30-17:50	ThC12.4
<i>Detection of Rotor Broken Bar and Eccentricity Faults in Induction Motors Via Second Order Sliding Mode Observer, pp. 7614-7619.</i>	
Pilloni, Alessandro	Univ. degli Studi di Cagliari
Pisano, Alessandro	Univ. degli Studi di Cagliari
Usai, Elio	Univ. degli Studi di Cagliari
Puche-Panadero, Ruben	Univ. Pol. de Valencia
17:50-18:10	ThC12.5
<i>On the Optimal Trajectory Generation for Servomotors: A Hamiltonian Approach, pp. 7620-7625.</i>	
Wang, Yebin	Mitsubishi Electric Res. Lab.
Ueda, Koichiro	Mitsubishi Electric Res. Lab.
Bortoff, Scott A.	Mitsubishi Electric Res. Lab.
18:10-18:30	ThC12.6
<i>A Novel PID-Based Control Approach for Switched-Reluctance Motors, pp. 7626-7631.</i>	
Loria, Antonio	CNRS
Espinosa-Perez, Gerardo	Univ. Nacional Autonoma de Mexico
Chumacero, Erik	L2S supeclec
ThC13	Ilima 1
Formal Methods in Control (Invited Session)	
Chair: Wongpiromsarn, Tichakorn	Singapore-MIT Alliance for Res. & Tech.
Co-Chair: Belta, Calin	Boston Univ.
Organizer: Wongpiromsarn, Tichakorn	Singapore-MIT Alliance for Res. & Tech.
Organizer: Belta, Calin	Boston Univ.

16:30-16:50	ThC13.1	
<i>Finite Bisimulations for Switched Linear Systems (I)</i> , pp. 7632-7637.		
Aydin Gol, Ebru Ding, Xu Chu Lazar, Mircea Belta, Calin	Boston Univ. United Tech. Res. Center Eindhoven Univ. of Tech. Boston Univ.	
16:50-17:10	ThC13.2	
<i>Scaling up Controller Synthesis for Linear Systems and Safety Specifications (I)</i> , pp. 7638-7643.		
Rungger, Matthias Mazo Jr., Manuel Tabuada, Paulo	Univ. of California at Los Angeles INCAS3 / Univ. of Groningen Univ. of California at Los Angeles	
17:10-17:30	ThC13.3	
<i>Control of Probabilistic Systems under Dynamic, Partially Known Environments with Temporal Logic Specifications (I)</i> , pp. 7644-7651.		
Wongpiromsarn, Tichakorn Frazzoli, Emilio	Singapore-MIT Alliance for Res. & Tech. Massachusetts Inst. of Tech.	
17:30-17:50	ThC13.4	
<i>Stability and Attractivity of Absorbing Sets for Discrete-Time Markov Processes (I)</i> , pp. 7652-7657.		
Tkachev, Ilya Abate, Alessandro	TU Delft TU Delft	
17:50-18:10	ThC13.5	
<i>Incremental Control Synthesis in Probabilistic Environments with Temporal Logic Constraints (I)</i> , pp. 7658-7663.		
Ulusoy, Alphan Wongpiromsarn, Tichakorn Belta, Calin	Boston Univ. Singapore-MIT Alliance for Res. & Tech. Boston Univ.	
18:10-18:30	ThC13.6	
<i>Reactive Controllers for Differentially Flat Systems with Temporal Logic Constraints (I)</i> , pp. 7664-7670.		
Liu, Jun Topcu, Ufuk Ozay, Necmiye Murray, Richard M.	Univ. of Sheffield California Inst. of Tech. California Inst. of Tech. California Inst. of Tech.	
ThC14		Ilima 2
Challenges and Advances in Optimal Control (Invited Session)		
Chair: Campbell, Stephen L Co-Chair: Maurer, Helmut Organizer: Campbell, Stephen L Organizer: Maurer, Helmut Organizer: Zidani, Hasnaa	North Carolina State Univ. Univ. Münster North Carolina State Univ. Univ. Münster ENSTA ParisTech	
16:30-16:50	ThC14.1	
<i>Bang-Bang and Singular Controls in Optimal Control Problems with Partial Differential Equations (I)</i> , pp. 7671-7678.		
Pesch, Hans Josef Bechmann, Simon Wurst, Jan-Eric	Univ. of Bayreuth Univ. of Bayreuth Univ. of Bayreuth	
16:50-17:10	ThC14.2	
<i>Optimal Control for Reconstruction of Curves without Cusps (I)</i> , pp. 7679-7684.		
Boscain, Ugo V. Duits, Remco Rossi, Francesco Sachkov, Yuri	CNRS Eindhoven Univ. of Tech. Aix-Marseille Univ. Russian Acad. of Science	
17:10-17:30	ThC14.3	
<i>A Variant of Nonsmooth Maximum Principle for State Constrained Problems (I)</i> , pp. 7685-7690.		
Biswas, Md. Haider Ali de Pinho, Maria do Rosario	Univ. do Porto Univ. do Porto	
17:30-17:50	ThC14.4	
<i>A Geometric Analysis of Bang-Bang Extremals in Optimal Control Problems for Combination Cancer Chemotherapy (I)</i> , pp. 7691-7696.		
Schaettler, Heinz M. Ledzewicz, Urszula Mahmoudiandehkordi, Siamak Reisi Gahrooei, Mostafa	Washington Univ. Southern Illinois Univ. at Edwardsville Southern Illinois Univ. Edwardsville Southern Illinois Univ. Edwardsville	
17:50-18:10	ThC14.5	
<i>Optimal Bang-Bang and Singular Controls in Collision Avoidance for Participants with Unequal Linear Speeds (I)</i> , pp. 7697-7702.		
Maurer, Helmut Tarnopolskaya, Tanya Fulton, Neale	Univ. Münster CSIRO Mathematics, Informatics and Statistics, Sydney CSIRO Mathematics, Informatics and Statistics, Canberra	
18:10-18:30	ThC14.6	
<i>Stratified Necessary Conditions for Unbounded Differential Inclusions with State Constraints (I)</i> , pp. 7703-7707.		
Bettioli, Piernicola Boccia, Andrea Vinter, Richard B.	Univ. de Brest Imperial Coll. London Imperial Coll. London	
ThC15		Ilima 3
Sliding Mode Control III (Regular Session)		
Chair: Rodrigues, Luis Co-Chair: Basin, Michael V.	Concordia Univ. Autonomous Univ. of Nuevo Leon	
16:30-16:50	ThC15.1	
<i>Discrete-Time Sliding Mode Regulator for Nonminimum Phase Systems</i> , pp. 7708-7713.		
Galicia, Marcos Israel Loukianov, Alexander G. Rivera, Jorge Utkin, Vadim I.	CINVESTAV Unidad Guadalajara CINVESTAV IPN GDI Univ. de Guadalajara Ohio State Univ.	
16:50-17:10	ThC15.2	
<i>Generic and Generalized Boundary Operating Points in Piecewise-Linear (discontinuous) Control Systems</i> , pp. 7714-7719.		
Della Rossa, Fabio Dercole, Fabio	Pol. di Milano Pol. di Milano	

17:10-17:30	ThC15.3
<i>H_{inf} Non-Fragile Observer-Based Sliding Mode Control of Singular Markovian Jump Systems with State Delay</i> , pp. 7720-7725.	
Zhou, Pingfang Wang, Yueying Wang, Quanbao Chen, Ji-An Ren, Jiemei Duan, Dengping	Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ.
17:30-17:50	ThC15.4
<i>Output Mini-Max Control for Polynomial Systems: Analysis and Application</i> , pp. 7726-7731.	
Jimenez-Lizarraga, Manuel A. Basin, Michael V. Rodriguez-Ramirez, Pablo Cesar Rodriguez, Celeste	Autonomous Univ. of Nuevo Leon Autonomous Univ. of Nuevo Leon Autonomous Univ. of Nuevo Leon Autonomous Univ. of Nuevo Leon
17:50-18:10	ThC15.5
<i>Nonlinear Fixed-Time Control Protocol for Uniform Allocation of Agents on a Segment</i> , pp. 7732-7737.	
Parsegov, Sergey Polyakov, Andrey Shcherbakov, Pavel	Inst. of Control Sciences, Russian Acad. of Sciences INRIA-LNE, Inst. of Control Sciences, Russian Acad. of Sciences
18:10-18:30	ThC15.6
<i>A Convex Formulation of Controller Synthesis for Piecewise-Affine Slab Systems Based on Invariant Sets</i> , pp. 7738-7743.	
Kaynama, Sina Samadi, Behzad Rodrigues, Luis	Concordia Univ. Maplesoft Concordia Univ.
ThC16	Haleakala Ballroom 3
Game Theory III (Regular Session)	
Chair: Marden, Jason Co-Chair: Jones, Malachi	Univ. of Colorado, Boulder Georgia Tech.
16:30-16:50	ThC16.1
<i>A Game-Theoretical Approach for Finding Optimal Strategies in an Intruder Classification Game</i> , pp. 7744-7751.	
Dritsoula, Lemonia Loiseau, Patrick Musacchio, John	Univ. of California, Santa Cruz EURECOM Univ. of California, Santa Cruz
16:50-17:10	ThC16.2
<i>Policy Improvement for Repeated Zero-Sum Games with Asymmetric Information (I)</i> , pp. 7752-7757.	
Jones, Malachi Shamma, Jeff S.	Georgia Inst. of Tech. Georgia Inst. of Tech.
17:10-17:30	ThC16.3
<i>Dynamic Network Interdiction Games with Imperfect Information and Deception</i> , pp. 7758-7763.	
Castanon, David A. Zheng, Jiefu	Boston Univ. Boston Univ.
17:30-17:50	ThC16.4
<i>Designing Games for Distributed Optimization with a Time Varying Communication Graph</i> , pp. 7764-7769.	
Li, Na Marden, Jason	California Inst. of Tech. Univ. of Colorado, Boulder
ThC17	Haleakala Ballroom 5
LMI-Based Techniques (Regular Session)	
Chair: Arzelier, Denis Co-Chair: Regruto, Diego	LAAS-CNRS Pol. di Torino
16:30-16:50	ThC17.1
<i>LMI Search for Rational Anticausal Zames--Falb Multipliers</i> , pp. 7770-7775.	
Carrasco, Joaquin Maya Gonzalez, Martin Lanzon, Alexander Heath, William Paul	Univ. of Manchester Univ. of Manchester Univ. of Manchester Univ. of Manchester
16:50-17:10	ThC17.2
<i>An Optimal Design of H-Infinity Static Output Feedback Controller Using LMI for Collocated Gyroscopic System</i> , pp. 7776-7780.	
Kurotaki, Yuki Nagashio, Tomoyuki Kida, Takashi	Univ. of Electro-Communications Osaka Prefecture Univ. Univ. of Electro-Communications
17:10-17:30	ThC17.3
<i>Robust H_{inf} Performance of Periodic Systems with Memory: New Formulations, Analysis and Design Results</i> , pp. 7781-7786.	
Tregouet, Jean-Francois Arzelier, Denis Peaucelle, Dimitri Ebihara, Yoshio Pittet, Christelle Falcoz, Alexandre	LAAS-CNRS LAAS-CNRS LAAS-CNRS, Univ. de Toulouse Kyoto Univ. CNES IMS
17:30-17:50	ThC17.4
<i>Asymptotic Stability of Two-Dimensional Continuous Roesser Models with Singularities at the Stability Boundary</i> , pp. 7787-7792.	
Knorn, Steffi Middleton, Richard H.	NUI Maynooth Univ. of Newcastle
17:50-18:10	ThC17.5
<i>Polytopic Outer Approximations of Semialgebraic Sets</i> , pp. 7793-7798.	
Cerone, Vito Piga, Dario Regruto, Diego	Pol. di Torino Delft Univ. of Tech. Pol. di Torino
18:10-18:30	ThC17.6
<i>An LMI Based Approach to Passivity Analysis and Robust Passification of Uncertain Linear Systems with Time Varying Delays</i> , pp. 7799-7804.	
Ahmed, Aftab Farooq, Sameer Khan, Abdul Qayyum Abid, Muhammad	Georgia Inst. of Tech. Pakistan Inst. of Engineering And Applied Sciences, Islamabad Pakistan Inst. of Engineering and Applied Sciences, Pakistan Inst. of Engineering and Applied Sciences