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Co-Chair: Ariyur, Kartik B.	Purdue Univ.
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Ortega, Romeo	LSS-SUPELEC
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Pereira, Ademir Rodrigues	Tech. Center of Brazilian Army
Hsu, Liu	COPPE/UFRJ

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Pierattoni, Davide	Univ. of Udine
De Caneva, Daniele	Univ. of Udine
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Chen, Xi	McGill Univ.
Wang, Xiaorui	Washington Univ. in St. Louis
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Regier, Paul	Univ. of Oklahoma
Bow, Travis	Oklahoma Christian Univ.

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Wang, Hong	The Univ. of Manchester

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Do Val, Joao B.R.	UNICAMP - FEEC

WeA11 Grand Ballroom I

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Schinstock, Dale	Kansas State Univ.
White, Warren N.	Kansas State Univ.
Hu, Guoqiang	Kansas State Univ.
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Burg, Timothy C.	Clemson Univ.
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Renner, Jay	Univ. of Maryland
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Antsaklis, Panos J.	Univ. of Notre Dame

WeA12 Grand Ballroom II

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Co-Chair: El-Farra, Nael H.	Univ. of California, Davis
Organizer: Baldea, Michael	Praxair, Inc.
Organizer: El-Farra, Nael H.	Univ. of California, Davis
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Sun, Jing	Univ. of Michigan
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Varigonda, Subbarao	United Tech. Res. Center
Jing, Buyun	United Tech. Res. Center
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Armagan, Emre	Massachusetts Inst. of Tech.
Tomasgard, Asgeir	Norwegian Univ. of Science and Tech. (NTNU)
Barton, Paul	MIT

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Nygaard, Gerhard	Int. Res. Inst. of Stavanger	
Nikolaou, Michael	Univ. of Houston	
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El-Farra, Nael H.	Univ. of California, Davis	

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Zurakowski, Ryan		Univ. of Delaware
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Santaniello, Sabato		Johns Hopkins Univ.
Fiengo, Giovanni		Univ. degli Studi del Sannio
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Astolfi, Alessandro		Imperial Coll. & Univ. of Rome
Shim, Hyungbo		Seoul National Univ.

WeA14 Grand Ballroom IV

Learning Control (Regular Session)

Chair: Ray, Asok		Pennsylvania State Univ.
Co-Chair: Xu, Bin		Virginia Tech.
09:20-09:40		WeA14.1
<i>Parameter Learning for Hybrid Bayesian Networks with Gaussian Mixture and Dirac Mixture Conditional Densities</i> , pp. 480-485.		
Krauthausen, Peter		Univ. Karlsruhe (TH)
Hanebeck, Uwe D.		Karlsruhe Inst. of Tech.
09:40-10:00		WeA14.2
<i>Online Least-Squares Policy Iteration for Reinforcement Learning Control</i> , pp. 486-491.		
Busoniu, Lucian		Delft Univ. of Tech.
Ernst, Damien		Univ. of Liège
De Schutter, Bart		Delft Univ. of Tech.
Babuska, R.		Delft Univ. of Tech.
10:00-10:20		WeA14.3
<i>Pattern Classification in Symbolic Streams Via Semantic Annihilation of Information</i> , pp. 492-497.		
Chattopadhyay, Ishanu		Penn State
Wen, Yicheng		Pennsylvania State Univ.
Ray, Asok		Pennsylvania State Univ.
10:20-10:40		WeA14.4
<i>Regularized Estimation of Sums of Exponentials in Spaces Generated by Stable Spline Kernels</i> , pp. 498-503.		
Pillonetto, Gianluigi		Univ. of Padova
Chiuso, Alessandro		Univ. di Padova
De Nicolao, Giuseppe		Univ. Pavia
10:40-11:00		WeA14.5

<i>Near-Optimal Approximation Rates for Distribution Free Learning with Exponentially, Mixing Observations</i> , pp. 504-509.	Virginia Tech. Virginia Tech.
Kurdila, Andrew J. Xu, Bin	
11:00-11:20	WeA14.6
<i>Security Games with Decision and Observation Errors</i> , pp. 510-515.	Univ. of Illinois, Urbana-Champaign Tech. Univ. Berlin Univ. of Illinois, Urbana-Champaign
Nguyen, Kien Alpcan, Tansu Basar, Tamer	
WeA15	Grand Ballroom VII
Flight Control I (Regular Session)	
Chair: Girard, Anouck Co-Chair: González, Oscar R.	Univ. of Michigan, Ann Arbor Old Dominion Univ.
09:20-09:40	WeA15.1
<i>A Control Allocation Technique to Recover from Pilot-Induced Oscillations (CAPIO) Due to Actuator Rate Limiting</i> , pp. 516-523.	U. C. Santa Cruz The Univ. of Michigan
Yildiz, Yildiray Kolmanovsky, Ilya V.	
09:40-10:00	WeA15.2
<i>Modeling of Ornithopter Flight Dynamics for State Estimation and Control</i> , pp. 524-529.	Univ. of Maryland Univ. of Maryland
Grauer, Jared Hubbard, James	
10:00-10:20	WeA15.3
<i>Transitions between Level Flight and Hovering for a Fixed-Wing Mini Aerial Vehicle</i> , pp. 530-535.	Univ. Laval Univ. Laval Defence R&D Canada - Valcartier DRDC - Valcartier Univ. Laval
Myrand-Lapierre, Vincent Desbiens, Andre Gagnon, Eric Wong, Franklin Poulin, Eric	
10:20-10:40	WeA15.4
<i>Open Loop Pitch Control of a Flapping Wing Micro-Air Vehicle Using a Tail and Control Mass</i> , pp. 536-541.	Univ. of Michigan Univ. of Michigan, Ann Arbor Univ. of Michigan
Orlowski, Christopher Girard, Anouck Shyy, Wei	
10:40-11:00	WeA15.5
<i>An Adaptive Detection Scheme for Aircraft Aerodynamic System Damage</i> , pp. 542-547.	Univ. of Virginia Univ. of Virginia Barron Associates, Inc.
Mack, Stephen Tao, Gang Burkholder, Jason	
11:00-11:20	WeA15.6
<i>Tracking Performance Analysis of a Distributed Recoverable Boeing 747 Flight Control System Subject to Digital Upsets</i> , pp. 548-554.	Old Dominion Univ. Old Dominion Univ. Old Dominion Univ. Old Dominion Univ.
Gray, W. Steven Wang, Rui González, Oscar R. Chávez-Fuentes, Jorge R.	
WeA16	Grand Ballroom VIII
Networked Control Systems I (Regular Session)	
Chair: Gupta, Vijay Co-Chair: Wang, Qian	Univ. of Notre Dame Penn State Univ.
09:20-09:40	WeA16.1
<i>On Dropout Modelling for Stability Analysis of Networked Control Systems</i> , pp. 555-561.	Eindhoven Univ. of Tech. Eindhoven Univ. of Tech. Eindhoven Univ. of Tech. Eindhoven Univ. of Tech.
van Schendel, Jos Donkers, Tijs Heemels, Maurice Van De Wouw, Nathan	
09:40-10:00	WeA16.2
<i>Optimal Transmitters for Control Over a Noisy Link with Imperfect Feedback</i> , pp. 562-567.	Tech. Univ. München (TUM) TUM
Breun, Peter Utschick, Wolfgang	
10:00-10:20	WeA16.3
<i>Stochastic Semistability with Application to Agreement Problems Over Random Networks</i> , pp. 568-573.	Penn State Univ. Penn State Univ.
Zhou, Jing Wang, Qian	
10:20-10:40	WeA16.4
<i>Some Stability and Boundedness Conditions for Second-Order Leaderless and Leader-Following Consensus with Communication and Input Delays</i> , pp. 574-579.	Tsinghua Univ. Utah State Univ. Utah State Univ.
Meng, Ziyang Ren, Wei Cao, Yongcan	

You, Zheng	Tsinghua Univ.
10:40-11:00	WeA16.5
<i>On an Estimation Oriented Routing Protocol</i> , pp. 580-585.	
Gupta, Vijay	Univ. of Notre Dame
11:00-11:20	WeA16.6
<i>An Improved Stability Criterion of Networked Control Systems</i> , pp. 586-589.	
Zhang, Xinxin	Hangzhou Dianzi Univ.
Jiang, Xiefu	Hangzhou Dianzi Univ.
Han, Qing-Long	Central Queensland Univ.

WeA17 Grand Ballroom IX

Linear Observers (Regular Session)	
Chair: Speyer, Jason L.	Univ. of California at Los Angeles
Co-Chair: Souley Ali, Harouna	Cran
09:20-09:40	WeA17.1
<i>Linear Minimax Estimation for Random Vectors with Parametric Uncertainty</i> , pp. 590-592.	
Bitar, Eilyan	Univ. of California, Berkeley
Baeyens, Enrique	Univ. of Valladolid
Packard, Andrew K.	Univ. of California at Berkeley
Poolla, Kameshwar	Univ. of California at Berkeley
09:40-10:00	WeA17.2
<i>Design of a Full Order H-Infinity Filter Using a Polynomial Approach</i> , pp. 593-598.	
Ezzine, Montassar	Ec. Nationale d'Ingénieurs de Monastir
Souley Ali, Harouna	Cran
Darouach, Mohamed	Univ. Henri Poincare-Nancy
Messaoud, Hassani	Ec. Nationale d'Ingénieurs de Monastir
10:00-10:20	WeA17.3
<i>Time and Frequency Domain Design of Functional Filters</i> , pp. 599-604.	
Ezzine, Montassar	Ec. Nationale d'Ingénieurs de Monastir
Darouach, Mohamed	Univ. Henri Poincare-Nancy
Souley Ali, Harouna	Cran
Messaoud, Hassani	Ec. Nationale d'Ingénieurs de Monastir
10:20-10:40	WeA17.4
<i>Information Filtering and Array Algorithms for Discrete-Time Markovian Jump Linear Systems Subject to Parameter Uncertainties</i> , pp. 605-610.	
Jesus, Gildson	Univ. of São Paulo
Ishihara, João Yoshiyuki	Univ. of Brasília
Terra, Marco Henrique	Univ. of São Paulo at São Carlos
10:40-11:00	WeA17.5
<i>Peak-Seeking Control Using Gradient and Hessian Estimates</i> , pp. 611-616.	
Ryan, John	NASA
Speyer, Jason L.	Univ. of California at Los Angeles
11:00-11:20	WeA17.6
<i>Linear Observer Design Using the Inverse Method for Systems with Matched Disturbances</i> , pp. 617-622.	
Lin, Chia-Fu	National Chung-Hsing Univ.
Su, Wu-Chung	National Chung-Hsing Univ.

WeA18 Grand Ballroom X

Mechanical Systems I (Regular Session)	
Chair: Murphey, Todd	Northwestern Univ.
Co-Chair: Ulsoy, A. Galip	Univ. of Michigan
09:20-09:40	WeA18.1
<i>Relationship between Coupling and the Controllability Grammian in Co-Design Problems</i> , pp. 623-628.	
Peters, Diane	Univ. of Michigan
Papalambros, Panos Y.	The Univ. of Michigan
Ulsoy, A. Galip	Univ. of Michigan
09:40-10:00	WeA18.2
<i>Linearizations for Mechanical Systems in Generalized Coordinates</i> , pp. 629-633.	
Johnson, Elliot	Northwestern Univ.
Murphey, Todd	Northwestern Univ.
10:00-10:20	WeA18.3
<i>Modeling and Analysis of a Weight Driven Mechanical Tower Clock</i> , pp. 634-639.	
Wagner, John R.	Clemson Univ.
Huey, Cecil	Clemson Univ.
Knaub, Katie	National Watch and Clock Museum
Volk, Eugene	National Association of Watch and Clock Coll.
Jagarwal, Amit	Clemson Univ.
10:20-10:40	WeA18.4
<i>State Estimation Based on Kinematic Models Considering Characteristics of Sensors</i> , pp. 640-645.	

Jeon, Soo	Univ. of Waterloo
10:40-11:00	WeA18.5
<i>Closed-Loop Response Analysis of an Inverted Pendulum</i> , pp. 646-651.	
Ashrafiuon, Hashem	Villanova Univ.
Whitman, Alan	Villanova Univ.

WeA19	Dover A
Powertrain Modeling, Estimation, and Control (Invited Session)	

Chair: Mohammadpour, Javad	Univ. of Houston
Co-Chair: Wang, Junmin	Ohio State Univ.
Organizer: Mohammadpour, Javad	Univ. of Houston
Organizer: Karnik, Amey	Ford Motor Company
Organizer: Wang, Junmin	Ohio State Univ.
Organizer: Onori, Simona	Ohio State Univ.
Organizer: Marano, Vincenzo	The Ohio State Univ.
09:20-09:40	WeA19.1
<i>In-Cylinder Oxygen Mass Fraction Cycle-By-Cycle Estimation Via a Lyapunov-Based Observer Design (I)</i> , pp. 652-657.	
Yan, Fengjun	The Ohio State Univ.
Wang, Junmin	Ohio State Univ.
09:40-10:00	WeA19.2
<i>Exhaust Pressure Estimation and Its Application to Variable Geometry Turbine and Wastegate Diagnostics (I)</i> , pp. 658-663.	
Wang, Yue-Yun	General Motors Company
Haskara, Ibrahim	GM Res. & Development
10:00-10:20	WeA19.3
<i>Multirate Closed-Loop System Identification of a Variable Valve Timing Actuator for an Internal Combustion Engine (I)</i> , pp. 664-669.	
Ren, Zhen	Michigan State Univ.
Zhu, Guoming	Michigan State Univ.
10:20-10:40	WeA19.4
<i>Modeling Priority Analysis Via Hybrid Petri Nets for an Internal Combustion Engine Management System (I)</i> , pp. 670-675.	
Palladino, Angelo	Univ. del Sannio
Aguirre, Luis Antonio	UFMG
Fiengo, Giovanni	Univ. degli Studi del Sannio
De Castro Lima, Rodrigo	Univ. Federal de Minas Gerais
10:40-11:00	WeA19.5
<i>Control of Dry Clutch Engagement for Vehicle Launches Via a Shaft Torque Observer (I)</i> , pp. 676-681.	
Kim, Jinsung	KAIST
Choi, Seibum Ben	KAIST
11:00-11:20	WeA19.6
<i>A Comparative Analysis of Electronic Pedal Algorithms Using a Driver-In-The-Loop Simulator and System Identification of Driver Behavior (I)</i> , pp. 682-687.	
Boris, Ryan	Toyota Tech. Center
Vermillion, Christopher	Toyota Tech. Center
Butts, Kenneth R.	Toyota Motor Engineering and Manufacturing North America, Toyota

WeA20	Dover B
Vehicle Tracking (Regular Session)	

Chair: Brennan, Sean	Penn State Univ.
Co-Chair: Zeng, Shuqing	General Motors Corp.
09:20-09:40	WeA20.1
<i>Fuzzy Uncertain Observer with Unknown Inputs for Lane Departure Detection</i> , pp. 688-693.	
Dahmani, Hamid	Univ. de Picardie Jules Verne
Chadli, Mohammed	Univ. de Picardie-Jules Verne
Rabhi, Abdelhamid	CREA
El Hajjaji, Ahmed	Univ. de Picardie-Jules Verne
09:40-10:00	WeA20.2
<i>Tracking Control of Interconnected Car-Like Vehicles Using Energy Methods</i> , pp. 694-699.	
Chávez Grunewald, Martín Guillermo	RWTH-Aachen Univ.
Abel, Dirk	RWTH Aachen Univ.
10:00-10:20	WeA20.3
<i>Improvements in Terrain-Based Road Vehicle Localization by Initializing an Unscented Kalman Filter Using Particle Filters</i> , pp. 700-707.	
Dean, Adam	Brigham Young Univ. Idaho
Langelaan, Jack W.	Penn State Univ.
Brennan, Sean	Penn State Univ.
10:20-10:40	WeA20.4
<i>A Carrier-Phase DGPS Based V2V Object Sensing System Using Fast Incremental Bayesian Network</i> , pp. 708-713.	
Zeng, Shuqing	General Motors Corp.
10:40-11:00	WeA20.5
<i>Statistical Mechanics-Inspired Optimization for Sensor Field Reconfiguration</i> , pp. 714-719.	
Mukherjee, Kushal	Pennsylvania State Univ.

Gupta, Shalabh
Ray, Asok
Wettergren, Thomas

Pennsylvania State Univ.
Pennsylvania State Univ.
Naval Undersea Warfare Center

WeA21		Dover C
Vibration Suppression I (Regular Session)		
Chair: Chang, Timothy N. Co-Chair: Karimi, Hamid Reza		New Jersey Inst. of Tech. Univ. of Agder
09:20-09:40 <i>An Integrated Approach for Parameter Identification and Semi-Active Control of MR Dampers (I)</i> , pp. 720-725.		WeA21.1
Shirazi, Farzad Mohammadpour, Javad Grigoriadis, Karolos M.		Univ. of Houston Univ. of Houston Univ. of Houston
09:40-10:00 <i>Multi-Objective Nonlinear Control of Semiactive and Regenerative Systems (I)</i> , pp. 726-731.		WeA21.2
Scruggs, Jeff		Duke Univ.
10:00-10:20 <i>Performance Limits Imposed by Semi-Active Damping Constraints (I)</i> , pp. 732-737.		WeA21.3
Harvey, Philip Scott Gavin, Henri P.		Duke Univ. Duke Univ.
10:20-10:40 <i>Zero Vibration Position Control of a Spherical Pendulum for Control Systems Demonstration</i> , pp. 738-743.		WeA21.4
Schulze, Thomas Chang, Timothy N.		NJIT New Jersey Inst. of Tech.
10:40-11:00 <i>Nonlinear Active Vibration Control Using Piezoelectric Actuators</i> , pp. 744-749.		WeA21.5
Rodriguez-Fortun, Jose M. Orus, Javier Alfonso, Jesus Castellanos, Jose A.		Inst. Tecnológico de Aragon Inst. Tecnológico de Aragon Inst. Tecnológico de Aragon Univ. of Zaragoza
11:00-11:20 <i>Feedback Vibration Control of a Base-Isolated Building with Delayed Measurements Using H_∞ Techniques</i> , pp. 750-755.		WeA21.6
Karimi, Hamid Reza Zapateiro, Mauricio Luo, Ningsu Rossell, Josep M.		Univ. of Agder Univ. of Girona Univ. of Girona Univ. Pol. de Catalunya (UPC)
WeA22		Laurel D
Optimal Control I (Regular Session)		
Chair: Ortiz, Norma Co-Chair: Gajic, Zoran R.		Virginia Commonwealth Univ. Rutgers Univ.
09:20-09:40 <i>Second Order Sufficient Conditions for Optimal Control Problems with Non-Unique Minimizers</i> , pp. 756-761.		WeA22.1
Gavriel, Christos Vinter, Richard B.		Imperial Coll. London Imperial Coll.
09:40-10:00 <i>Price of Anarchy and Price of Information in N-Person Linear-Quadratic Differential Games</i> , pp. 762-767.		WeA22.2
Zhu, Quanyan Basar, Tamer		Univ. of Illinois, Urbana-Champaign Univ. of Illinois, Urbana-Champaign
10:00-10:20 <i>Necessary Conditions for a Class of Optimal Multiprocess Problems with Equality Constraints</i> , pp. 768-769.		WeA22.3
Ortiz-Robinson, Norma		Virginia Commonwealth Univ.
10:20-10:40 <i>Nonlinear Cumulant Control Using Hamilton-Jacobi-Bellman Equation and Neural Network Approximation</i> , pp. 770-775.		WeA22.4
Kang, Bei Won, Chang-Hee		Temple Univ. Temple Univ.
10:40-11:00 <i>Lossless Convexification of a Class of Non-Convex Optimal Control Problems for Linear Systems</i> , pp. 776-781.		WeA22.5
Acikmese, Behcet Blackmore, Lars		Jet Propulsion Lab. MIT
11:00-11:20 <i>Solving the Singularly Perturbed Matrix Differential Riccati Equation: A Lyapunov Equation Approach</i> , pp. 782-787.		WeA22.6
Nguyen, Thang Gajic, Zoran R.		Rutgers Univ. Rutgers Univ.
WeB01		Harborside Ballroom A
Unmanned Aerial Vehicles (Regular Session)		
Chair: Nataraj, C. Co-Chair: Beard, Randy		Villanova Univ. Brigham Young Univ.

13:40-14:00		WeB01.1
<i>Integrated Sensor Guidance Using Probability of Object Identification</i> , pp. 788-793.		
Niedfeldt, Peter C.		Brigham Young Univ.
Beard, Randy		Brigham Young Univ.
Pledgie, Stephen		Mosaic ATM
Morse, Bryan		Brigham Young Univ.
14:00-14:20		WeB01.2
<i>Decentralized Deconfliction Algorithm for Unicycle UAVs</i> , pp. 794-799.		
Panyakeow, Prachya		Univ. of Washington
Mesbahi, Mehran		Univ. of Washington
14:20-14:40		WeB01.3
<i>Max-Plus Enabled Dynamic Programming for Sensor Platform Tasking</i> , pp. 800-805.		
Oran, Ali		Univ. of California, San Diego
McEneaney, William		Univ. of California, San Diego
14:40-15:00		WeB01.4
<i>Linear Time-Varying Tracking Control with Application to Unmanned Aerial Vehicles</i> , pp. 806-811.		
Ramesh, Thimmaraya		Villanova Univ.
Nataraj, C.		Villanova Univ.
Lee, DongBin		Villanova Univ.
15:00-15:20		WeB01.5
<i>A Nonlinear Guidance and Active Fault Tolerant Control System for a Fixed Wing Unmanned Aerial Vehicle</i> , pp. 812-817.		
Bertoni, Gianni		Univ. of Bologna
Bertozzi, Nicola		Univ. of Bologna
Castaldi, Paolo		Univ. di Bologna, II Facoltf di Ingegneria
Simani, Silvio		Univ. of Ferrara
15:20-15:40		WeB01.6
<i>Game-Theoretic Analysis of an Aerial Jamming Attack on a UAV Communication Network</i> , pp. 818-823.		
Bhattacharya, Sourabh		Univ. of Illinois, Urbana-Champaign
Basar, Tamer		Univ. of Illinois, Urbana-Champaign

WeB02 Harborside Ballroom B

Cooperative Control II (Regular Session)		
Chair: Johansson, Karl H.		Royal Inst. of Tech.
Co-Chair: Pham, Khanh D.		AIR FORCE Res. Lab. VEHICLES DIRECTORATE
13:40-14:00		WeB02.1
<i>Multi-Agent Coordination with Event-Based Communication</i> , pp. 824-829.		
Teixeira, Pedro Vaz		Faculdade de Engenharia da Univ. do Porto
Dimarogonas, Dimos V.		Massachusetts Inst. of Tech.
Johansson, Karl H.		Royal Inst. of Tech.
Sousa, Joao		Univ. Porto - Faculdade Engenharia
14:00-14:20		WeB02.2
<i>Multiagent Coordination Exploiting System Symmetries</i> , pp. 830-835.		
Goodwine, Bill		Univ. of Notre Dame
Antsaklis, Panos J.		Univ. of Notre Dame
14:20-14:40		WeB02.3
<i>Passivity-Based Position Consensus of Multiple Mechanical Integrators with Communication Delay</i> , pp. 836-841.		
Huang, Ke		UTK
Lee, Dongjun		Univ. of Tennessee at Knoxville
14:40-15:00		WeB02.4
<i>Risk-Averse Based Paradigms for Uncertainty Forecast and Management in Differential Games of Persistent Disruptions and Denials (I)</i> , pp. 842-849.		
Pham, Khanh D.		AIR FORCE Res. Lab.
15:00-15:20		WeB02.5
<i>Multi-Agent Controllability with Tree Topology</i> , pp. 850-855.		
Ji, Zhijian		Qingdao Univ.
Lin, Hai		National Univ. of Singapore
Lee, Tong Heng		National Univ. of Singapore
Ling, Qiang		Univ. of Science and Tech. of China
15:20-15:40		WeB02.6
<i>Local Adaptive Controllers for Networked Cooperative Systems</i> , pp. 856-861.		
Voit, Harald		Tech. Univ. München
Annaswamy, Anuradha		Massachusetts Inst. of Tech.

WeB03 Harborside Ballroom D

Adaptive Control II (Regular Session)		
Chair: Campbell, Stefan		NASA
Co-Chair: Lavretsky, Eugene		The Boeing Co.
13:40-14:00		WeB03.1
<i>A Nonlinear Dynamic Inversion L1 Adaptive Controller for a Generic Transport Model</i> , pp. 862-867.		

Campbell, Stefan	NASA
Kaneshige, John	Nasa
14:00-14:20	WeB03.2
<i>A Nonlinear Dynamic Inversion Predictor-Based Model Reference Adaptive Controller for a Generic Transport Model</i> , pp. 868-873.	
Campbell, Stefan	NASA
Kaneshige, John	Nasa
14:20-14:40	WeB03.3
<i>L1 Adaptive Controller for Multi-Input Multi-Output Systems in the Presence of Nonlinear Unmatched Uncertainties</i> , pp. 874-879.	
Xargay, Enric	Univ. of Illinois, Urbana-Champaign
Hovakimyan, Naira	Univ. of Illinois, Urbana-Champaign
Cao, Chengyu	Univ. of Connecticut
14:40-15:00	WeB03.4
<i>High Performance Adaptive Control in the Presence of Time Delays</i> , pp. 880-885.	
Dydek, Zachary	MIT
Annaswamy, Anuradha	Massachusetts Inst. of Tech.
Slotine, Jean-Jacques E.	Massachusetts Inst. of Tech.
Lavretsky, Eugene	The Boeing Co.
15:00-15:20	WeB03.5
<i>L1 Adaptive Controller for Time-Varying Reference Systems in the Presence of Unmodeled Nonlinear Dynamics</i> , pp. 886-891.	
Kharisov, Evgeny	Univ. of Illinois at Urbana-Champaign (UIUC)
Hovakimyan, Naira	Univ. of Illinois, Urbana-Champaign
Wang, Jiang	Virginia Pol. Inst. & State Univ.
Cao, Chengyu	Univ. of Connecticut
15:20-15:40	WeB03.6
<i>Recursively Updated Least Squares Based Modification Term for Adaptive Control</i> , pp. 892-897.	
Chowdhary, Girish	Georgia Inst. of Tech.
Johnson, Eric N.	Georgia Inst. of Tech.

WeB04 Harborside Ballroom E
Hybrid Systems II (Regular Session)

Chair: Keel, L. H.	Tennessee State Univ.
Co-Chair: Teel, Andrew R.	Univ. of California at Santa Barbara
13:40-14:00	WeB04.1
<i>Observer-Based Hybrid Feedback: A Local Separation Principle</i> , pp. 898-903.	
Teel, Andrew R.	Univ. of California at Santa Barbara
14:00-14:20	WeB04.2
<i>Robust Control of Stochastic Systems with Noise Dependent States and Inputs under Markovian Switching</i> , pp. 904-909.	
Sathananthan, Sivapragasam	Tennessee State Univ.
Knap, Michael Jason	Tennessee State Univ.
Keel, L. H.	Tennessee State Univ.
14:20-14:40	WeB04.3
<i>Uniting Two Output-Feedback Controllers with Different Objectives</i> , pp. 910-915.	
Sanfelice, Ricardo G.	Univ. of Arizona
Prieur, Christophe	LAAS-CNRS
14:40-15:00	WeB04.4
<i>On Stability Characterization of Discrete-Time Piecewise Linear Systems</i> , pp. 916-921.	
Mirzazad Barijough, Sanam	Pennsylvania State Univ.
Lee, Ji-Woong	Pennsylvania State Univ.
15:00-15:20	WeB04.5
<i>Nonlinear Hybrid Control of Phase Models for Coupled Oscillators</i> , pp. 922-923.	
Nabi, Ali	Univ. of California, Santa Barbara
Moehlis, Jeff	Univ. of California, Santa Barbara
15:20-15:40	WeB04.6
<i>Stability of a Class of Stochastic Linear Hybrid Systems</i> , pp. 924-929.	
Seroka, Ewelina	Cardinal Stefan Wyszynski Univ. in Warsaw
Socha, Leslaw	Cardinal Stefan Wyszynski Univ.

WeB05 Essex A
Power Systems I (Regular Session)

Chair: Bullo, Francesco	Univ. California at Santa Barbara
Co-Chair: Li, Perry Y.	Univ. of Minnesota
13:40-14:00	WeB05.1
<i>Synchronization and Transient Stability in Power Networks and Non-Uniform Kuramoto Oscillators</i> , pp. 930-937.	
Dörfler, Florian	Univ. of California at Santa Barbara
Bullo, Francesco	Univ. California at Santa Barbara
14:00-14:20	WeB05.2
<i>Comparative Evaluation of Linear and Nonlinear Model Predictive Control for a Isolated High Power DC/DC Converter</i> , pp. 938-943.	
Xie, Yanhui	Univ. of Michigan
Ghaemi, Reza	Univ. of Michigan (Ann Arbor)

Sun, Jing	Univ. of Michigan
Freudenberg, James S.	Univ. of Michigan
14:20-14:40	WeB05.3
<i>Generator Thermal Sensitivity Analysis with Support Vector Regression</i> , pp. 944-949.	
Yang, Youliang	Univ. of Alberta
Zhao, Qing	Univ. of Alberta
14:40-15:00	WeB05.4
<i>Control Oriented Modeling and System Identification for a Generator Set</i> , pp. 950-955.	
Li, Perry Y.	Univ. of Minnesota
Cheong, Kai Loon	Univ. of Minnesota
Xia, Jicheng	U. of Minnesota
15:00-15:20	WeB05.5
<i>Mode in Output Participation Factors for Linear Systems</i> , pp. 956-961.	
Sheng, Li	Jiangnan Univ.
Abed, Eyad H.	Univ. of Maryland
Hassouneh, Munther	Univ. of Maryland
Yang, Huizhong	Jiangnan Univ.
Saad, Mohamed Shawky	Cairo Univ. Faculty of Engineering
15:20-15:40	WeB05.6
<i>Cyber Attack in a Two-Area Power System: Impact Identification Using Reachability</i> , pp. 962-967.	
Mohajerin Esfahani, Peyman	Swiss Federal Inst. of Tech. Zurich (ETHZ)
Vrakopoulou, Maria	ETH Zurich
Margellos, Kostas	ETH Zurich
Lygeros, John	ETH Zurich
Andersson, Goran	Swiss Federal Inst. of Tech.

WeB06 Essex B

Sliding Mode Control (Regular Session)	
Chair: Oliveira, Tiago Roux	COPPE/UFRJ
Co-Chair: Ferrara, Antonella	Univ. of Pavia
13:40-14:00	WeB06.1
<i>Variable Gains Super-Twisting Algorithm: A Lyapunov Based Design</i> , pp. 968-973.	
DÁvila Merida, Israel Alejandro	UNAM
Moreno, Jaime A.	Univ. Nacional Autonoma de Mexico-UNAM
Fridman, Leonid M.	National Autonomous Univ.
14:00-14:20	WeB06.2
<i>Global Exact Tracking for Uncertain Multivariable Linear Systems by Output Feedback Sliding Mode Control</i> , pp. 974-979.	
Nunes, Eduardo Vieira Leao	COPPE - Federal Univ. of Rio de Janeiro
Peixoto, Alessandro Jacoud	Federal Center of Tech. Celso Suckow da Fonseca
Oliveira, Tiago Roux	COPPE/UFRJ
Hsu, Liu	COPPE/UFRJ
14:20-14:40	WeB06.3
<i>On Discrete Time Terminal Sliding Mode Control for Nonlinear Systems with Uncertainty</i> , pp. 980-984.	
Xi, Zhiyu	Univ. of New South Wales
Hesketh, Timothy	Univ. of New South Wales
14:40-15:00	WeB06.4
<i>Second Order Sliding Mode Control of a Perturbed Double Integrator with State Constraints</i> , pp. 985-990.	
Rubagotti, Matteo	Univ. of Trento
Ferrara, Antonella	Univ. of Pavia
15:00-15:20	WeB06.5
<i>An Optimal Sliding Mode Controller Applied to Human Motion Synthesis with Robotic Implementation</i> , pp. 991-996.	
Spiers, Adam	Univ. of Bristol
Herrmann, Guido	Univ. of Bristol
Melhuish, Chris	Univ. of The West of England
15:20-15:40	WeB06.6
<i>A Constrained Wheel Torque Controller for Lane Following System Using Control Distribution</i> , pp. 997-1002.	
Hsu, Ling-Yuan	National Chiao Tung Univ.
Weng, Kent	Quanta Storage Incorporation
Chen, Tsung-Lin	National Chiao Tung Univ.

WeB07 Essex C

Quantization in Control (Invited Session)	
Chair: Azuma, Shun-ichi	Kyoto Univ.
Co-Chair: Pappas, George J.	Univ. of Pennsylvania
Organizer: Azuma, Shun-ichi	Kyoto Univ.
Organizer: Pappas, George J.	Univ. of Pennsylvania
13:40-14:00	WeB07.1
<i>Control of Quantized Multi-Agent Systems with Linear Nearest Neighbor Rules: A Finite Field Approach (I)</i> , pp. 1003-1008.	
Sundaram, Shreyas	Univ. of Waterloo

Hadjicostis, Christoforos	Univ. of Cyprus
14:00-14:20	WeB07.2
<i>Approximate Time-Optimal Control Via Approximate Alternating Simulations (I)</i> , pp. 1009-1014.	
Mazo Jr., Manuel	Univ. of California at Los Angeles
Tabuada, Paulo	Univ. of California at Los Angeles
14:20-14:40	WeB07.3
<i>Approximately Bisimilar Discrete Abstractions of Nonlinear Systems Using Variable-Resolution Quantizers (I)</i> , pp. 1015-1020.	
Tazaki, Yuichi	Nagoya Univ.
Imura, Jun-ichi	Tokyo Inst. of Tech.
14:40-15:00	WeB07.4
<i>Symbolic Models for Unstable Nonlinear Control Systems</i> , pp. 1021-1026.	
Zamani, Majid	Univ. of California at Los Angeles
Pola, Giordano	Univ. of L'Aquila
Tabuada, Paulo	Univ. of California at Los Angeles
15:00-15:20	WeB07.5
<i>A Random Dynamical Systems Approach to Filtering in Large-Scale Networks (I)</i> , pp. 1027-1034.	
Kar, Soumya	Carnegie Mellon Univ.
Sinopoli, Bruno	Carnegie Mellon Univ.
Moura, Jose' M. F.	Carnegie Mellon Univ.
15:20-15:40	WeB07.6
<i>Discrete Abstraction of Stochastic Nonlinear Systems: A Bisimulation Function Approach (I)</i> , pp. 1035-1040.	
Azuma, Shun-ichi	Kyoto Univ.
Pappas, George J.	Univ. of Pennsylvania

WeB08	Laurel A
Communication Networks II (Regular Session)	
Chair: Robertsson, Anders	LTH, Lund Univ.
Co-Chair: Gupta, Vijay	Univ. of Notre Dame
13:40-14:00	WeB08.1
<i>On Estimation across Analog Erasure Links with and without Acknowledgements</i> , pp. 1041-1046.	
Gupta, Vijay	Univ. of Notre Dame
14:00-14:20	WeB08.2
<i>Analysis of Buffer Delay in Web-Server Control</i> , pp. 1047-1052.	
Kjćr, Martin Ansbjerg	Lund Univ. LTH
Robertsson, Anders	LTH, Lund Univ.
14:20-14:40	WeB08.3
<i>Distributed Inference Networks with Costly Wires</i> , pp. 1053-1058.	
Varshney, Lav R.	Massachusetts Inst. of Tech.
14:40-15:00	WeB08.4
<i>Network Security Configurations: A Nonzero-Sum Stochastic Game Approach</i> , pp. 1059-1064.	
Zhu, Quanyan	Univ. of Illinois, Urbana-Champaign
Tembine, Hamidou	Univ. of Avignon
Basar, Tamer	Univ. of Illinois, Urbana-Champaign
15:00-15:20	WeB08.5
<i>A Study of Near-Field Direct Antenna Modulation Systems Using Convex Optimization</i> , pp. 1065-1072.	
Lavaei, Javad	California Inst. of Tech.
Babakhani, Aydin	California Inst. of Tech.
Hajimiri, Ali	California Inst. of Tech.
Doyle, John C.	California Inst. of Tech.
15:20-15:40	WeB08.6
<i>Mathematical Foundations of Sensor Network Design Based on Linguistic Informatics</i> , pp. 1073-1078.	
Chattopadhyay, Ishanu	Penn State
Wen, Yicheng	Pennsylvania State Univ.
Phoha, Shashi	Pennsylvania State Univ.
Ray, Asok	Pennsylvania State Univ.

WeB09	Laurel B
Linear Systems II (Regular Session)	
Chair: Oara, Cristian	Univ. Pol. Bucharest
Co-Chair: Forbes, James Richard	Univ. of Toronto Inst. for Aerospace Studies
13:40-14:00	WeB09.1
<i>A Singular Value Decomposition Based Closed Loop Stability Preserving Controller Reduction Method</i> , pp. 1079-1084.	
Sou, Kin Cheong	Lund Univ.
Rantzer, Anders	Lund Univ.
14:00-14:20	WeB09.2
<i>Computation of the $(J, J_2; \gamma)$-Spectral and $(J, J_2; \gamma)$-Lossless Factorizations of a General System</i> , pp. 1085-1090.	
Oara, Cristian	Univ. Pol. Bucharest
Andrei, Raluca	Univ. Pol. Bucharest

14:20-14:40		WeB09.3
<i>PID Controller Design Based on Optimal Servo and Nu-Gap Metric</i> , pp. 1091-1096.		
Ochi, Yoshimasa		National Defense Acad.
Kondo, Hiroyuki		National Defense Acad.
14:40-15:00		WeB09.4
<i>Passive Linear Time-Varying Systems: State-Space Realizations, Stability in Feedback, and Controller Synthesis</i> , pp. 1097-1104.		
Forbes, James Richard		Univ. of Toronto Inst. for Aerospace Studies
Damaren, Chris J.		Univ. of Toronto
15:00-15:20		WeB09.5
<i>State-Space Design Method for Both Intersample and Sampled Responses in a Multirate Control System</i> , pp. 1105-1110.		
Sato, Takao		Univ. of Hyogo
Hattori, Yoshiki		Univ. of Hyogo
Araki, Nozomu		Univ. of Hyogo
Konishi, Yasuo		Univ. of Hyogo
15:20-15:40		WeB09.6
<i>On the Solution of a Class of Algebraic Riccati Equations with Repeated Unstable Eigenvalues</i> , pp. 1111-1116.		
Rojas, Alejandro J.		Univ. of Newcastle (until April 2010), Univ. de Conce

WeB10 Laurel C
Stochastic Systems II (Regular Session)

Chair: Saberi, Ali		Washington State Univ.
Co-Chair: Dimirovski, Georgi M		Dogus Univ. of Istanbul
13:40-14:00		WeB10.1
<i>Optimal Control for a Scalar One-Step Linear System with Additive Cauchy Noise</i> , pp. 1117-1124.		
Idan, Moshe		Tech. - Israel Institute of Tech.
Emadzadeh, Amir A.		Univ. of California, Los Angeles
Speyer, Jason L.		Univ. of California at Los Angeles
14:00-14:20		WeB10.2
<i>Stochastic Differential Dynamic Programming</i> , pp. 1125-1132.		
Theodorou, Evangelos		Univ. of Southern California
Tassa, Yuval		Hebrew Univ.
Todorov, Emanuel		Univ. of California San Diego
14:20-14:40		WeB10.3
<i>On Generating Sets of Binary Random Variables with Specified First and Second Moments</i> , pp. 1133-1138.		
Xue, Mengran		Washington State Univ.
Roy, Sandip		Washington State Univ.
Saberi, Ali		Washington State Univ.
Lesieutre, Bernard		Massachusetts Inst. of Tech.
14:40-15:00		WeB10.4
<i>Stochastic Process Models for Linear Structure Behavior</i> , pp. 1139-1144.		
Paez, Thomas		MannaTech
Lacy, Seth L.		Air Force Res. Lab.
Babuska, Vit		Sandia National Lab.
15:00-15:20		WeB10.5
<i>Chance Constrained Finite Horizon Optimal Control with Nonconvex Constraints</i> , pp. 1145-1152.		
Ono, Masahiro		MIT
Blackmore, Lars		MIT
Williams, Brian		MIT
15:20-15:40		WeB10.6
<i>Dynamic Sensor Tasking for Space Situational Awareness</i> , pp. 1153-1158.		
Erwin, Richard Scott		Air Force Res. Lab.
Albuquerque, Paul		The Univ. of Michigan
Jayaweera, Sudharman K.		Univ. of New Mexico
Hussein, Islam		Worcester Pol. Inst.

WeB11 Grand Ballroom I
Bicycles and Unicycles (Regular Session)

Chair: Tomizuka, Masayoshi		Univ. of California, Berkeley
Co-Chair: Qu, Zhihua		Univ. of Central Florida
13:40-14:00		WeB11.1
<i>Robust Multivariable Dynamic Surface Control for Position Tracking of a Bicycle</i> , pp. 1159-1165.		
Mathieu, Johanna L		Univ. of California, Berkeley
Hedrick, Karl		Univ. of California at Berkeley
14:00-14:20		WeB11.2
<i>Robust Disturbance Observer Design for a Power-Assist Electric Bicycle</i> , pp. 1166-1171.		
Fan, Xuan		Univ. of California at Berkeley
Tomizuka, Masayoshi		Univ. of California, Berkeley
14:20-14:40		WeB11.3
<i>Motorcycle Speed Profile in Cornering Situation</i> , pp. 1172-1177.		

Slimi, Hamid	IBISC-CNRS Fre 3190 Lab.
Arioui, Hichem	Evry Val d'Essonne Univ.
Nouveliere, Lydie	IBISC
Mammar, Said	LSC-CNRS-FRE2494
14:40-15:00	WeB11.4
<i>Stabilization for a Class of Nonholonomic Perturbed Systems Via Robust Adaptive Sliding Mode Control</i> , pp. 1178-1183.	
Yang, Liang	Peking Univ.
Yang, Jianying	Peking Univ.
15:00-15:20	WeB11.5
<i>Trajectory Tracking Control of an Input Delayed Monocycle</i> , pp. 1184-1189.	
Sira-Ramirez, Hebert	CINVESTAV
Velasco-Villa, Martin	CINVESTAV-IPN
Rodriguez-Angeles, Alejandro	Mexican Petroleum Inst.
15:20-15:40	WeB11.6
<i>Reactive Target-Tracking Control with Obstacle Avoidance of Unicycle-Type Mobile Robots in a Dynamic Environment</i> , pp. 1190-1195.	
Qu, Zhihua	Univ. of Central Florida
Chunyu, Jiangmin	Univ. of Central Florida
Pollak, Eytan	Link Simulation & Training, L3 Communications
Falash, Mark	L3 Communications

WeB12 Grand Ballroom II

Energy Systems I (Regular Session)	
Chair: Niculescu, Silviu-Iulian	CNRS-Supelec
Co-Chair: Schuster, Eugenio	Lehigh Univ.
13:40-14:00	WeB12.1
<i>Heat Flow, Work Energy, Chemical Reactions, and Thermodynamics: A Dynamical Systems Perspective</i> , pp. 1196-1203.	
Haddad, Wassim M.	Georgia Inst. of Tech.
Nersesov, Sergey G.	Villanova Univ.
Chellaboina, Vijay	Tata Consultancy Services
14:00-14:20	WeB12.2
<i>Thermal Protection of Vehicle Payloads Using Phase Change Materials and Liquid Cooling</i> , pp. 1204-1210.	
Finn, Joshua	Clemson Univ.
Ewing, David	Clemson Univ.
Ma, Lin	Clemson Univ.
Wagner, John R.	Clemson Univ.
14:20-14:40	WeB12.3
<i>Gas Pipelines LPV Modelling and Identification for Leakage Detection</i> , pp. 1211-1216.	
Lopes dos Santos, P.	Univ. do Porto
Azevedo Perdicoulis, T-P	ISR-Coimbra & UTAD
Ramos, Jose A.	Nova Southeastern Univ.
Jank, Gerhard	RWTH Aachen
Martins de Carvalho, J.L.	Faculdade de Engenharia da Univ. do Porto
Milhinhos, João	REN-Gasodutos
14:40-15:00	WeB12.4
<i>Robustified Optimal Control of a Coal-Fired Power Plant</i> , pp. 1217-1222.	
Simon, Emile	Univ. Catholique de Louvain
Stoica, Cristina Nicoleta	Supelec
Rodriguez-Ayerbe, Pedro	Supelec
Dumur, Didier	Ec. Superieure d'Electricite
Wertz, Vincent	Univ. Catholique de Louvain
15:00-15:20	WeB12.5
<i>Lexicographic Optimization of Multiple Economic Objectives in Oil Production from Petroleum Reservoirs</i> , pp. 1223-1228.	
van Essen, Gijs	Delft Univ. of Tech.
Van den Hof, Paul M.J.	Delft Univ. of Tech.
Jansen, Jan Dirk	Delft Univ. of Tech.
15:20-15:40	WeB12.6
<i>Energy Management Optimization in a Pulp and Paper Mill Cogeneration Facility</i> , pp. 1229-1234.	
Marshman, Devin James	Univ. of British Columbia
Chmelyk, Terrance	Norpac Controls Ltd.
Sidhu, Manpreet S.	Norpac Controls Ltd.
Gopaluni, Ratna Bhushan	Univ. of British Columbia
Dumont, Guy A.	Univ. of British Columbia

WeB13 Grand Ballroom III

Cancer Modeling and Control (Tutorial Session)	
Chair: Wang, Jin	Auburn Univ.
Co-Chair: Singh, Tarunraj	State Univ. of New York at Buffalo
13:40-14:20	WeB13.1
<i>An ODE Model for the HER2/3-AKT Signaling Pathway in Cancers That Overexpress HER2 (I)</i> , pp. 1235-1241.	
Itani, Sleiman	Univ. of California at Berkeley.

Gray, Joe	Lawrence Berkeley Lab.
Tomlin, Claire J.	UC Berkeley
14:20-14:40	WeB13.2
<i>Optimizing Antiangiogenic Therapy for Tumor Minimization</i> , pp. 1242-1247.	
Nath, Nitendra	Clemson Univ.
Burg, Timothy C.	Clemson Univ.
Dawson, Darren M.	Clemson Univ.
Iyasere, Erhun	Clemson Univ.
14:40-15:00	WeB13.3
<i>A Multi-Resolution Approach for Tumor Motion Modeling</i> , pp. 1248-1253.	
Jin, Cheng	Univ. at Buffalo
Singla, Puneet	Univ. at Buffalo
Singh, Tarunraj	State Univ. of New York at Buffalo
15:00-15:20	WeB13.4
<i>Modeling and Uncertainty Quantification of Motion of Lung Tumors for Image Guided Radiation Therapy</i> , pp. 1254-1259.	
Kumar, Ravi	Univ. at Buffalo
Singh, Tarunraj	State Univ. of New York
Singla, Puneet	State Univ. of New York at Buffalo
15:20-15:40	WeB13.5
<i>Comparison of a New Spectrum Alignment Algorithm with Other Methods</i> , pp. 1260-1265.	
He, Qinghua	Tuskegee Univ.
Wang, Jin	Auburn Univ.

WeB14	Grand Ballroom IV
Iterative Learning Control: Theory and Application (Invited Session)	
Chair: Bristow, Douglas A.	Missouri Univ. of Science & Tech.
Co-Chair: Alleyne, Andrew G.	Univ. of Illinois, Urbana-Champaign
Organizer: Bristow, Douglas A.	Missouri Univ. of Science & Tech.
13:40-14:00	WeB14.1
<i>Stochastic Iterative Learning Control Design for Nonrepetitive Events (I)</i> , pp. 1266-1271.	
Mishra, Sandipan	Univ. of Illinois
Alleyne, Andrew G.	Univ. of Illinois, Urbana-Champaign
14:00-14:20	WeB14.2
<i>Precision Coordination and Motion Control of Multiple Systems Via Iterative Learning Control (I)</i> , pp. 1272-1277.	
Barton, Kira	Univ. of Illinois, Urbana-Champaign
Alleyne, Andrew G.	Univ. of Illinois, Urbana-Champaign
14:20-14:40	WeB14.3
<i>Iterative Learning Control of the Redundant Upper Limb for Rehabilitation (I)</i> , pp. 1278-1283.	
Freeman, Christopher T.	Univ. of Southampton
Lewin, Paul L.	Univ. of Southampton
Rogers, Eric	Univ. of Southampton
Owens, David H.	The Univ. of Sheffield
14:40-15:00	WeB14.4
<i>Iteration-Domain Closed-Loop Frequency Response Shaping for Discrete-Repetitive Processes (I)</i> , pp. 1284-1289.	
Moore, Kevin L.	Colorado School of Mines
Lashhab, Fadel	Colorado School of Mines
15:00-15:20	WeB14.5
<i>A Decoupled Inversion-Based Iterative Control Approach to Multi-Axis Precision Positioning: 3-D Nanopositioning Example (I)</i> , pp. 1290-1295.	
Yan, Yan	The Johns Hopkins Univ.
Wang, Haiming	Iowa State Univ.
Zou, Qingze	Iowa State Univ.
15:20-15:40	WeB14.6
<i>Optimal Iteration-Varying Iterative Learning Control for Systems with Stochastic Disturbances (I)</i> , pp. 1296-1301.	
Bristow, Douglas A.	Missouri Univ. of Science & Tech.

WeB15	Grand Ballroom VII
Flight Control II (Regular Session)	
Chair: Tsiotras, Panagiotis	Georgia Inst. of Tech.
Co-Chair: Annaswamy, Anuradha	Massachusetts Inst. of Tech.
13:40-14:00	WeB15.1
<i>Robust Hovering Control of a Single-DOF Flapping Wing MAV</i> , pp. 1302-1307.	
Serrani, Andrea	The Ohio State Univ.
14:00-14:20	WeB15.2
<i>An Adaptive Reset Control System for Flight Safety in the Presence of Actuator Anomalies</i> , pp. 1308-1313.	
Matsutani, Megumi	Massachusetts Inst. of Tech.
Annaswamy, Anuradha	Massachusetts Inst. of Tech.
14:20-14:40	WeB15.3
<i>Identification of a Hammerstein Model for Wing Flutter Analysis Using CFD Data and Correlation Method</i> , pp. 1314-1319.	

Lum, Kai-Yew	National Univ. of Singapore
Lai, Kwok Leung	National Univ. of Singapore
14:40-15:00	WeB15.4
<i>The Zermelo-Voronoi Diagram: A Dynamic Partition Problem</i> , pp. 1320-1325.	
Bakolas, Efstathios	Georgia Inst. of Tech.
Tsiotras, Panagiotis	Georgia Inst. of Tech.
15:00-15:20	WeB15.5
<i>Resource Balancing Control Allocation</i> , pp. 1326-1331.	
Frost, Susan	NASA Ames Res. Center
Bodson, Marc	Univ. of Utah
15:20-15:40	WeB15.6
<i>Integrated Missile Flight Control Using Quaternions and Third-Order Sliding Mode Control</i> , pp. 1332-1337.	
Foreman, David C.	davidson Tech. inc
Tournes, Christian H.	Univ. of Alabama at Huntsville
Shtessel, Yuri B.	Univ. of Alabama at Huntsville

WeB16 Grand Ballroom VIII

Networked Control Systems II (Regular Session)

Chair: Bakule, Lubomir	Inst. of Information Theory and Automation of the ASCR
Co-Chair: Wang, Xiaofeng	Univ. of Illinois at Urbana-Champaign
13:40-14:00	WeB16.1
<i>Decentralized Resilient H_{∞} Observer-Based Control for a Class of Uncertain Interconnected Networked Systems</i> , pp. 1338-1343.	
Bakule, Lubomir	Inst. of Information Theory and Automation of the ASCR
de la Sen, Manuel	Univ. del Pais Vasco
14:00-14:20	WeB16.2
<i>An Optimal Control L_2-Gain Disturbance Rejection Design for Networked Control Systems</i> , pp. 1344-1349.	
Millan, Pablo	Univ. de Sevilla
Orihuela, Luis	Univ. de Sevilla
Vivas, Carlos	Univ. De Sevilla
Rubio, Francisco R.	Univ. de Sevilla
14:20-14:40	WeB16.3
<i>Robust Fuzzy Observer-Based Control for TCP/AQM Network Systems with State Delay</i> , pp. 1350-1355.	
Jing, Yuanwei	Northeastern Univ.
Chen, Zhaona	Northeastern Univ.
Dimirovski, Georgi M	Dogus Univ. of Istanbul
14:40-15:00	WeB16.4
<i>Robust H_{∞} PID Control for Networked Control Systems with Acceptable Noise Rejection</i> , pp. 1356-1361.	
Shi, Yang	Univ. of Victoria
Zhang, Hui	Univ. of Victoria
Saadat Mehr, Aryan	Univ. of Saskatchewan
15:00-15:20	WeB16.5
<i>Asymptotic Stability in Distributed Event-Triggered Networked Control Systems with Delays</i> , pp. 1362-1367.	
Wang, Xiaofeng	Univ. of Illinois at Urbana-Champaign
Lemmon, Michael	Univ. of Notre Dame
15:20-15:40	WeB16.6
<i>Hybrid State Feedback Controller Design of Networked Switched Control Systems with Packet Dropout</i> , pp. 1368-1373.	
Ma, Dan	Northeastern Univ.
Dimirovski, Georgi M	Dogus Univ. of Istanbul
Zhao, Jun	The Australian National Univ.

WeB17 Grand Ballroom IX

Filtering (Regular Session)

Chair: Pao, Lucy Y.	Univ. of Colorado at Boulder
Co-Chair: Ugrinovskii, Valery	Univ. of New South Wales
13:40-14:00	WeB17.1
<i>Distributed Robust Filtering with H-Infinity Consensus of Estimates</i> , pp. 1374-1379.	
Ugrinovskii, Valery	Univ. of New South Wales
14:00-14:20	WeB17.2
<i>New Results on Robust L_2-L_{∞} Filtering for Uncertain Linear Discrete-Time Systems</i> , pp. 1380-1385.	
Shi, Yang	Univ. of Victoria
Zhang, Hui	Univ. of Victoria
Saadat Mehr, Aryan	Univ. of Saskatchewan
Sheng, Jie	Univ. of Washington, Tacoma
14:20-14:40	WeB17.3
<i>Stochastic Sampling Based Data Association</i> , pp. 1386-1391.	
Travers, Matthew	Univ. of Colorado
Pao, Lucy Y.	Univ. of Colorado at Boulder
Murphey, Todd	Northwestern Univ.
14:40-15:00	WeB17.4

Optimal Dirac Approximation by Exploiting Independencies, pp. 1392-1398.

Eberhardt, Henning
Klumpp, Vesa
Hanebeck, Uwe D.

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

WeB17.5

15:00-15:20

A Discrete Nonlinear Filter for Fast Sampled Problems Based on Vector Quantization, pp. 1399-1403.

Cea, Mauricio
Goodwin, Graham C.
Feuer, Arie

UTFSM
Univ. of Newcastle
Tech.

WeB17.6

15:20-15:40

Weighted Infinitesimal versus Observation: Application to Signal Differentiation, pp. 1404-1409.

Dridi, Mehdi
Scorletti, Gerard
Smaoui, Mohamed
Tournier, Dominique
Lin Shi, Xuefang

Lab. Ampère
Ec. Centrale de Lyon
INSA de Lyon
Lab. Ampère
INSA Lyon

WeB18

Grand Ballroom X

Mechanical Systems II (Regular Session)

Chair: Chopra, Nikhil
Co-Chair: Chung, Chung Choo

Univ. of Maryland, Coll. Park
Hanyang Univ.

WeB18.1

13:40-14:00

Modeling of Rebound Phenomenon of a Rigid Ball with Friction and Elastic Effects, pp. 1410-1415.

Nakashima, Akira
Ogawa, Yuki
Kobayashi, Yosuke
Hayakawa, Yoshikazu

Nagoya Univ.
Nagoya Univ.
Nagoya Univ.
Nagoya Univ.

WeB18.2

14:00-14:20

On the Classification of Series-Parallel Electrical and Mechanical Networks, pp. 1416-1421.

Jiang, Jason Zheng
Smith, Malcolm C.

Univ. of Cambridge
Univ. of Cambridge

WeB18.3

14:20-14:40

Predictor-Based Control for an Uncertain Euler-Lagrange System with Input Delay, pp. 1422-1427.

Sharma, Nitin
Bhasin, Shubhendu
Wang, Qiang
Dixon, Warren E.

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

WeB18.4

14:40-15:00

Time-Invariant Quadratic Hamiltonians Via Generalized Transformations, pp. 1428-1433.

Tall, Issa Amadou

Southern Illinois Univ. Carbondale

WeB18.5

15:00-15:20

Robust Controlled Synchronization of Interconnected Robotic Systems, pp. 1434-1439.

Liu, Yen-Chen
Chopra, Nikhil

Univ. of Maryland, Coll. Park
Univ. of Maryland, Coll. Park

WeB18.6

15:20-15:40

High Gain Observer Based Nonlinear Position Control for Electro-Hydraulic Servo Systems, pp. 1440-1446.

Kim, Wonhee
Won, Daehee
Chung, Chung Choo

Hanyang
Korea Inst. of Industrial Tech.
Hanyang Univ.

WeB19

Dover A

Engine Modeling and Control (Invited Session)

Chair: Karnik, Amey
Co-Chair: Butts, Kenneth R.

Ford Motor Company
Toyota Motor Engineering and Manufacturing North America, Toyota
Tech. Center

Organizer: Karnik, Amey
Organizer: Mohammadpour, Javad
Organizer: Wang, Junmin
Organizer: Marano, Vincenzo
Organizer: Onori, Simona

Ford Motor Company
Univ. of Houston
Ohio State Univ.
The Ohio State Univ.
Ohio State Univ.

WeB19.1

13:40-14:00

Architectures for Phase Variation Compensation in AFR Control (I), pp. 1447-1452.

Meyer, Jason
Yurkovich, Stephen
Midlam-Mohler, Shawn

Ohio State Univ.
The Ohio State Univ.
Ohio State Univ.

WeB19.2

14:00-14:20

Gain-Scheduling Control of Port-Fuel-Injection Processes (I), pp. 1453-1458.

White, Andrew
Choi, Jongeun
Nagamune, Ryozi

Michigan State Univ.
Michigan State Univ.
Univ. of British Columbia

Zhu, Guoming	Michigan State Univ.
14:20-14:40	WeB19.3
<i>Model Predictive Engine Torque Control with Real-Time Driver-In-The-Loop Simulation Results (I)</i> , pp. 1459-1464.	
Vermillion, Christopher	Toyota Tech. Center
Butts, Kenneth R.	Toyota Motor Engineering and Manufacturing North America, Toyota
Reidy, Kevin	Toyota Tech. Center
14:40-15:00	WeB19.4
<i>Application of Linear Programming SVM-ARMA2K for Dynamic Engine Modeling (I)</i> , pp. 1465-1470.	
Lu, Zhao	Tuskegee Univ.
Sun, Jing	Univ. of Michigan
Butts, Kenneth R.	Toyota Motor Engineering and Manufacturing North America, Toyota
15:00-15:20	WeB19.5
<i>Air Charge Control for Turbocharged Spark Ignition Engines with Internal Exhaust Gas Recirculation (I)</i> , pp. 1471-1476.	
Lee, Donghoon	Univ. of Michigan
Jiang, Li	Robert Bosch LLC
Stefanopoulou, Anna G.	Univ. of Michigan
Yilmaz, Hakan	Bosch
15:20-15:40	WeB19.6
<i>LPV Decoupling and Input Shaping for Control of Diesel Engines (I)</i> , pp. 1477-1482.	
Mohammadpour, Javad	Univ. of Houston
Grigoriadis, Karolos M.	Univ. of Houston
Franchek, Matthew A.	Univ. of Houston
Wang, Yue-Yun	General Motors Company
Haskara, Ibrahim	GM Res. & Development

WeB20	Dover B
Vehicle Dynamics and Control (Regular Session)	
Chair: Brennan, Sean	Penn State Univ.
Co-Chair: O'Brien, Richard	United States Naval Acad.
13:40-14:00	WeB20.1
<i>Vehicle Lateral Stability Using a Front Steer by Wire Device and Set Membership Predictive Control Techniques (I)</i> , pp. 1483-1488.	
Canale, Massimo	Pol. di Torino
Fagiano, Lorenzo	Pol. di Torino
Signorile, Maria Carmela	Pol. di Torino
14:00-14:20	WeB20.2
<i>Predictive Control of Vehicle Roll Dynamics with Rear Wheel Steering (I)</i> , pp. 1489-1494.	
Beal, Craig	Stanford Univ.
Gerdes, J. Christian	Stanford Univ.
14:20-14:40	WeB20.3
<i>Cooperative DYC System Design for Optimal Vehicle Handling Enhancement</i> , pp. 1495-1500.	
Tamaddoni, Seyed Hossein	Virginia Pol. Inst. and State Univ.
Taheri, Saied	Virginia Tech.
Ahmadian, Mehdi	Virginia Pol. Inst. and State Univ.
14:40-15:00	WeB20.4
<i>Terrain-Aware Rollover Prediction for Ground Vehicles Using the Zero-Moment Point Method</i> , pp. 1501-1507.	
Lapamong, Sittikorn	Penn State Univ.
Brennan, Sean	Penn State Univ.
15:00-15:20	WeB20.5
<i>H_∞ Observer-Based Robust Multiple Controller Design for Vehicle Lateral Dynamics</i> , pp. 1508-1513.	
Chadli, Mohammed	Univ. de Picardie-Jules Verne
El Hajjaji, Ahmed	Univ. de Picardie-Jules Verne
Rabhi, Abdelhamid	CREA
15:20-15:40	WeB20.6
<i>Parameter Estimation for a Standard Surface Water Vehicle Model</i> , pp. 1514-1519.	
O'Brien, Richard	United States Naval Acad.
Thorp, Owen	U.S. Naval Acad.

WeB21	Dover C
Vibration Suppression II (Regular Session)	
Chair: Gao, Zhiqiang	Cleveland State Univ.
Co-Chair: Yuan, QingHui	Eaton Corp. Innovation Center
13:40-14:00	WeB21.1
<i>An Active Disturbance Rejection Based Approach to Vibration Suppression in Two-Inertia Systems</i> , pp. 1520-1525.	
Zhao, Shen	Cleveland State Univ.
Gao, Zhiqiang	Cleveland State Univ.
14:00-14:20	WeB21.2
<i>Vibration Suppression Controller for a Novel Beam-Cart-Seesaw System</i> , pp. 1526-1531.	
Lin, Jonqlan	Ching Yun Univ.
Huang, C.J.	Ching Yun Univ.

Chang, Julian	Ching Yun Univ.
Wang, S.-W.	Ching Yun Univ.
14:20-14:40	WeB21.3
<i>Boundary Control of a Flexible Marine Riser with Vessel Dynamics</i> , pp. 1532-1537.	
He, Wei	National Univ. of Singapore
How, Bernard Voon Ee	National Univ. of Singapore
Ge, Shuzhi Sam	National Univ. of Singapore
Choo, Yoo Sang	National Univ. of Singapore
14:40-15:00	WeB21.4
<i>Active Damping Control for Bending Oscillations of a Forklift Mast Using Flatness Based Techniques</i> , pp. 1538-1543.	
Zimmert, Nico	Univ. Stuttgart
Sawodny, Oliver	Univ. of Stuttgart
15:00-15:20	WeB21.5
<i>Actively Damped Heave Compensation (ADHC) System</i> , pp. 1544-1549.	
Yuan, QingHui	Eaton Corp. Innovation Center
15:20-15:40	WeB21.6
<i>On the Stability Analysis and Modelling of a Multirate Control Direct-Drive Machine Tool Axis Subject to Large Changes in Load Dynamics</i> , pp. 1550-1555.	
Stephens, Michael A.	The Univ. of Melbourne
Manzie, Chris	The Univ. of Melbourne
Good, Malcolm C.	Univ. of Melbourne
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WeB22	Laurel D
Optimal Control II (Regular Session)	
Chair: Bhattacharya, Raktim	Texas A&M
Co-Chair: Singh, Baljeet	Texas A&M Univ.
13:40-14:00	WeB22.1
<i>Direct Optimal Control and Costate Estimation Using Least Square Method</i> , pp. 1556-1561.	
Singh, Baljeet	Texas A&M Univ.
Bhattacharya, Raktim	Texas A&M
14:00-14:20	WeB22.2
<i>Optimal Control Design Using Sequential Linear Programming</i> , pp. 1562-1567.	
Verlohren, Christoph	Tech. Univ. Darmstadt
Singh, Tarunraj	State Univ. of New York at Buffalo
Singla, Puneet	Univ. at Buffalo
14:20-14:40	WeB22.3
<i>Optimal Control of Affine Nonlinear Continuous-Time Systems</i> , pp. 1568-1573.	
Dierks, Travis	DRS Tech.
Jagannathan, Sarangapani	Missouri Univ. of Science & Tech.
14:40-15:00	WeB22.4
<i>Nonlinear Distributed Dynamic Optimization Based on First Order Sensitivities (I)</i> , pp. 1574-1579.	
Scheu, Holger	RWTH Aachen Univ.
Busch, Jan	BTS
Marquardt, Wolfgang	RWTH Aachen Univ. of Tech.
15:00-15:20	WeB22.5
<i>Recursive Construction of Optimal Smoothing Splines with Constraints</i> , pp. 1580-1585.	
Fujioka, Hiroyuki	Fukuoka Inst. of Tech.
Kano, Hiroyuki	Tokyo Denki Univ.
15:20-15:40	WeB22.6
<i>Existence of Solutions of Riccati Differential Equations for Linear Time Varying Systems</i> , pp. 1586-1590.	
Kilicaslan, Sinan	Gazi Univ.
Banks, Stephen	Sheffield Univ.
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WeC01	Harborside Ballroom A
Autonomous Systems (Regular Session)	
Chair: Xargay, Enric	Univ. of Illinois, Urbana-Champaign
Co-Chair: Kristiansen, Raymond	Narvik Univ. Coll.
16:00-16:20	WeC01.1
<i>A Pseudospectral Optimal Motion Planner for Autonomous Unmanned Vehicles</i> , pp. 1591-1598.	
Sekhavat, Pooya	Naval Postgraduate School
Karpenko, Mark	Naval Postgraduate School
Ross, I. Michael	Naval Postgraduate School
Hurni, Michael	United States Naval Acad.
16:20-16:40	WeC01.2
<i>Attitude Reference Generation for Leader-Follower Formation with Nadir Pointing Leader</i> , pp. 1599-1604.	
Schlanbusch, Rune	Narvik Univ. Coll.
Kristiansen, Raymond	Narvik Univ. Coll.
Nicklasson, Per Johan	Narvik Univ. Coll.
16:40-17:00	WeC01.3

<i>Coalition Formation with Communication Ranges and Moving Targets</i> , pp. 1605-1610.	Indian Inst. of Science Univ. de Porto Univ. Porto - Faculdade Engenharia Porto Univ.
George, Joel	
P B, Sujit	
Sousa, Joao	
Pereira / FEUP, Fernando Lobo	
17:00-17:20	WeC01.4
<i>Path Planning for Multiple Robots: An Alternative Duality Approach</i> , pp. 1611-1616.	Caltech Univ. of Pennsylvania Univ. of Pennsylvania
Motee, Nader	
Jadbabaie, Ali	
Pappas, George J.	
17:20-17:40	WeC01.5
<i>Time-Critical Coordination of Multiple Vehicles with Uni-Directional Communication Constraints</i> , pp. 1617-1622.	Virginia Pol. & State Univ. Wentworth Inst. of Tech. Univ. of Illinois, Urbana-Champaign
Young, Amanda	
Ma, Lili	
Hovakimyan, Naira	
17:40-18:00	WeC01.6
<i>Agent Capability in Persistent Mission Planning Using Approximate Dynamic Programming</i> , pp. 1623-1628.	Massachusetts Inst. of Tech. Massachusetts Inst. of Tech. MIT The Boeing Company
Bethke, Brett	
Redding, Joshua	
How, Jonathan P.	
Vian, John L	

WeC02 Harborside Ballroom B

Cooperative Control III (Regular Session)

Chair: Bullo, Francesco	Univ. California at Santa Barbara
Co-Chair: Poulakakis, Ioannis	Princeton Univ.
16:00-16:20	WeC02.1
<i>Decentralized Communication Range Adjustment Issues in Multi-Agent Mobile Networks</i> , pp. 1629-1634.	Univ. of Patras Univ. of Patras
Stergiopoulos, John	
Tzes, Anthony	
16:20-16:40	WeC02.2
<i>Interaction Reduction and Consensus for Multi-Agent Systems</i> , pp. 1635-1640.	California State Univ. Air Force Res. Lab. Univ. of Central Florida
Geng, Xiaojun	
Jeffcoat, David	
Xu, Yunjun	
16:40-17:00	WeC02.3
<i>On Consensus among Identical Linear Systems Using Input-Decoupled Functional Observers</i> , pp. 1641-1646.	Univ. of Stuttgart Univ. of Stuttgart
Wieland, Peter	
Allgower, Frank	
17:00-17:20	WeC02.4
<i>On Bifurcations in Nonlinear Consensus Networks</i> , pp. 1647-1652.	Univ. of California Santa Barbara Univ. of California, Santa Barbara Univ. California at Santa Barbara
Srivastava, Vaibhav	
Moehlis, Jeff	
Bullo, Francesco	
17:20-17:40	WeC02.5
<i>The Undesired Equilibria of Formation Control with Ring Graphs</i> , pp. 1653-1658.	Northwestern Univ.
Bai, He	

WeC03 Harborside Ballroom D

Adaptive Control III (Regular Session)

Chair: Stefanovic, Margareta	Univ. of Wyoming
Co-Chair: Oldham, Kenn	Univ. of Michigan, Ann Arbor
16:00-16:20	WeC03.1
<i>L1 Adaptive Controller for a Class of Systems with Unknown Nonlinearities</i> , pp. 1659-1664.	Univ. of Connecticut Univ. of Connecticut Univ. of Illinois, Urbana-Champaign
Luo, Jie	
Cao, Chengyu	
Hovakimyan, Naira	
16:20-16:40	WeC03.2
<i>A Model-Free On-Off Iterative Adaptive Controller Based on Stochastic Approximation</i> , pp. 1665-1670.	Univ. of Michigan Univ. of Michigan, Ann Arbor
Hahn, Bongsu	
Oldham, Kenn	
16:40-17:00	WeC03.3
<i>Adaptive Output Optimal Control Algorithm for Unknown System Dynamics Based on Policy Iteration</i> , pp. 1671-1676.	Tokyo Inst. of Tech. Tokyo Inst. of Tech.
Ohtake, Susumu	
Yamakita, Masaki	
17:00-17:20	WeC03.4
<i>Adaptive Static-Output-Feedback Stabilization Using Retrospective Cost Optimization</i> , pp. 1677-1682.	Univ. of Michigan Univ. of Michigan
Santillo, Mario	
Hoagg, Jesse B.	

Bernstein, Dennis S.	Univ. of Michigan
17:20-17:40	WeC03.5
<i>Design of Adaptive Sliding Mode Controllers for Systems with Mismatched Uncertainty to Achieve Asymptotic Stability</i> , pp. 1683-1688.	
Cheng, Chih-Chiang	National Sun Yat-Sen Univ.
Guo, Cang-Zhi	Dept. of Electrical Engineering, National Sun Yat Sen Univ.
17:40-18:00	WeC03.6
<i>Adaptive Reduced-Order Dynamic Compensation for Nonlinear Uncertain Dynamical Systems</i> , pp. 1689-1694.	
Haddad, Wassim M.	Georgia Inst. of Tech.
Hayakawa, Tomohisa	Tokyo Inst. of Tech.
Yucelen, Tansel	Georgia Inst. of Tech.

WeC04		Harborside Ballroom E
Switched Systems I (Regular Session)		
Chair: de la Sen, Manuel		Univ. del Pais Vasco
Co-Chair: Santarelli, Keith		Sandia National Lab.
16:00-16:20		WeC04.1
<i>Non-Equilibrium Transient Trajectory Shaping Control Via Multiple Barrier Lyapunov Functions for a Class of Nonlinear Systems</i> , pp. 1695-1700.		
Yan, Fengjun		The Ohio State Univ.
Wang, Junmin		Ohio State Univ.
16:20-16:40		WeC04.2
<i>A Switched State Feedback Law for the Stabilization of LTI Systems</i> , pp. 1701-1707.		
Santarelli, Keith		Sandia National Lab.
16:40-17:00		WeC04.3
<i>Input/output-To-State Stability of Switched Nonlinear Systems</i> , pp. 1708-1712.		
Mueller, Matthias Albrecht		Univ. Stuttgart
Liberzon, Daniel		Univ. of Illinois, Urbana-Champaign
17:00-17:20		WeC04.4
<i>Backstepping via h_∞ Control for Switched Nonlinear Systems under Arbitrary Switchings</i> , pp. 1713-1718.		
Ma, Ruicheng		Northeastern Univ.
Zhao, Jun		The Australian National Univ.
Dimirovski, Georgi M		Dogus Univ. of Istanbul
Zhang, Xinquan		Northeast Univ.
17:20-17:40		WeC04.5
<i>Stability of Switched Linear Discrete-Time Descriptor Systems with Explicit Calculation of a Common Quadratic Lyapunov Sequence</i> , pp. 1719-1724.		
Ibeas, Asier		Univ. Autónoma de Barcelona
de la Sen, Manuel		Univ. del Pais Vasco
Vilanova, Ramon		Univ. Autonoma de Barcelona
Herrera Cuartas, Jorge		Univ. Autónoma de Barcelona
17:40-18:00		WeC04.6
<i>Safe Adaptive Switching Control with No SCLI Assumption</i> , pp. 1725-1730.		
Cheong, Seunggyun		UCSD

WeC05		Essex A
Power Systems II (Regular Session)		
Chair: Dugard, Luc		CNRS-INPG
Co-Chair: Dong, Lili		Cleveland State Univ.
16:00-16:20		WeC05.1
<i>Robust Load Frequency Control for an Interconnected Power System</i> , pp. 1731-1736.		
Dong, Lili		Cleveland State Univ.
Zhang, Yao		Rutgers, the State Univ. of New Jersey
16:20-16:40		WeC05.2
<i>A Novel Robust Nonlinear Control of a Three-Phase NPC Inverter Based Active Power Filter</i> , pp. 1737-1742.		
Okou, Francis A.		Royal Military Coll. of Canada
Gauthier, Sebastien		Royal Military Coll. of Canada
16:40-17:00		WeC05.3
<i>Identification of Aggregated Interarea Models of Three-Area Power Systems Using Dynamic Measurements*</i> . QI 000000		
Chakraborty, Aranya		Texas Tech. Univ.
17:00-17:20		WeC05.4
<i>Nonlinear Design of Excitation Controller and Power System Stabilizer for Voltage Regulation and Transient Stability</i> , pp. 1743-1748.		
Fusco, Giuseppe		Univ. of Cassino
Russo, Mario		Univ. di Cassino
17:20-17:40		WeC05.5
<i>Odd-Harmonic Repetitive Control of an Active Filter under Varying Network Frequency: A Small-Gain Theorem-Based Stability Analysis</i> , pp. 1749-1754.		
Olm, Josep M.		Univ. Pol. de Catalunya
Ramos, Germán Andrés		Univ. Nacional de Colombia
Costa-Castelló, Ramon		Univ. Pol. de Catalunya

Cardoner, Rafael	Univ. Pol. de Catalunya
17:40-18:00	WeC05.6
<i>Induction Motor Control through AC/DC/AC Converters</i> , pp. 1755-1760.	
Elfadili, Abderrahim	mohamed V
Giri, Fouad	Univ. de Caen
Ouadii, Hamid	Ismra
El Magri, Abdelmounime	EMI
Dugard, Luc	CNRS-Grenoble INP
Abouloifa, Abdelmajid	EMI

WeC06 Essex B

Synchronization (Regular Session)

Chair: Mehta, Prashant G.	Univ. of Illinois, Urbana-Champaign
Co-Chair: Arcak, Murat	Univ. of California, Berkeley
16:00-16:20	WeC06.1
<i>Generalized Synchronization of Coupled Duffing Oscillators: An LMI Based Approach</i> , pp. 1761-1766.	
Xu, Shiyun	Peking Univ.
Yang, Ying	Peking Univ.
16:20-16:40	WeC06.2
<i>Synchronization of Nonlinearly Coupled Harmonic Oscillators</i> , pp. 1767-1771.	
Tuna, S. Emre	Middle East Tech. Univ.
Cai, Chaohong	United Tech. Res. Center
16:40-17:00	WeC06.3
<i>Nonlinear Analysis of Ring Oscillator Circuits</i> , pp. 1772-1776.	
Ge, Xiaoqing	Rensselaer Pol. Inst.
Arcak, Murat	Univ. of California, Berkeley
Salama, Khaled	Rensselaer Pol. Inst.
17:00-17:20	WeC06.4
<i>Synchronization of Phase-Coupled Oscillators with Arbitrary Topology</i> , pp. 1777-1782.	
Mallada, Enrique	Cornell Univ.
Tang, Ao	Cornell Univ.
17:20-17:40	WeC06.5
<i>Synchronization of Coupled Oscillators Is a Game</i> , pp. 1783-1790.	
Yin, Huibing	Univ. of Illinois, Urbana-Champaign
Mehta, Prashant G.	Univ. of Illinois, Urbana-Champaign
Meyn, Sean	Univ. of Illinois
Shanbhag, Uday V.	Univ. of Illinois, Urbana-Champaign
17:40-18:00	WeC06.6
<i>Secure Digital Communication Using Discrete-Time Chaotic Systems Via Indirect Coupling Synchronization</i> , pp. 1791-1796.	
Kharel, Rupak	Northumbria Univ.
Busawon, Krishna K.	Northumbria Univ.
Ghassemlooy, Fary	Northumbria Univ.

WeC07 Essex C

Sampled Data Systems (Regular Session)

Chair: Gajic, Zoran R.	Rutgers Univ.
Co-Chair: Normand-Cyrot, Marie-Dorothee	CNRS-Supélec
16:00-16:20	WeC07.1
<i>Output Feedback Synthesis for Sampled-Data System with Input Saturation</i> , pp. 1797-1802.	
Dai, Dan	Univ. of California, Santa Barbara
Hu, Tingshu	Univ. of Massachusetts, Lowell
Teel, Andrew R.	Univ. of California at Santa Barbara
Zaccarian, Luca	Univ. di Roma, Tor Vergata
16:20-16:40	WeC07.2
<i>A Switched Lyapunov Function Approach to Stability Analysis of Non-Uniformly Sampled-Data Systems</i> , pp. 1803-1804.	
Fujioka, Hisaya	Kyoto Univ.
Nakai, Toshiharu	Graduate School of Informatics, Kyoto Univ.
Hetel, Laurentiu	Ec.
16:40-17:00	WeC07.3
<i>Sampled-Data Redesign of Stabilizing Feedback</i> , pp. 1805-1810.	
Monaco, Salvatore	Univ. di Roma
Normand-Cyrot, Marie-Dorothee	CNRS-Supélec
Tiefensee, Fernando	CNRS - Supelec - Univ. Paris XI-Sud
17:00-17:20	WeC07.4
<i>IDA-PBC under Sampling for Port-Controlled Hamiltonian Systems</i> , pp. 1811-1816.	
Tiefensee, Fernando	CNRS - Supelec - Univ. Paris XI-Sud
Monaco, Salvatore	Univ. di Roma
Normand-Cyrot, Marie-Dorothee	CNRS-Supélec
17:20-17:40	WeC07.5

<i>New Globally Asymptotical Synchronization of Chaotic Lur'e Systems Using Sampled Data</i> , pp. 1817-1822.	Nanyang Tech. Univ. Nanyang Tech. Univ. Ludong Univ.
Zhu, Xun-Lin Wang, Youyi Yang, Hong-yong	
17:40-18:00	WeC07.6
<i>On $O(T^2)$ State Regulation with Output Feedback Sliding Mode Control for Sampled-Data Systems</i> , pp. 1823-1828.	Rutgers Univ. National Chung-Hsing Univ. Rutgers Univ.
Nguyen, Thang Su, Wu-Chung Gajic, Zoran R.	
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WeC08	Laurel A
Wireless Networks (Regular Session)	
Chair: Irwin, George W. Co-Chair: Aghdam, Amir G.	Queen's Univ. of Belfast Concordia Univ.
16:00-16:20	WeC08.1
<i>Packet-Based Robust MPC for Wireless Networked Control Using Co-Design</i> , pp. 1829-1834.	The Queen's Univ. of Belfast Queen's Univ. of Belfast Queen's Univ. Belfast
Chen, Jian Irwin, George W. McKernan, Adrian Declan	
16:20-16:40	WeC08.2
<i>Joint Design of Control and Communication in Wireless Networked Control Systems: A Case Study</i> , pp. 1835-1840.	Univ. of Kaiserslautern, Inst. of Automatic Control Univ. of Kaiserslautern
Chamaken Kamde, Alain Tierry Litz, Lothar	
16:40-17:00	WeC08.3
<i>Event-Based Sampling for Wireless Network Control Systems with QoS</i> , pp. 1841-1846.	Queen's Univ. Belfast Queen's Univ. of Belfast
McKernan, Adrian Declan Irwin, George W.	
17:00-17:20	WeC08.4
<i>Elimination of Limit Cycles in Wireless Communication Networks Using Three-Level Comparators</i> , pp. 1847-1849.	McGill Univ. Concordia Univ.
Jalaleddini, Kian Aghdam, Amir G.	
17:20-17:40	WeC08.5
<i>Evolutionary Bandwidth Allocation and Routing in Large-Scale Wireless Sensor Networks</i> , pp. 1850-1855.	Worcester Pol. Inst. Worcester Pol. Inst.
Wang, Yue Hussein, Islam	
17:40-18:00	WeC08.6
<i>Explicitly Constrained Generalised Predictive Control Strategies for Power Management in Ambulatory Wireless Sensor Network Systems</i> , pp. 1856-1861.	Univ. of Limerick Univ. of Seville Univ. of Limerick
Witheephanich, Kritchai Escano, Juan Manuel Hayes, Martin J.	
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WeC09	Laurel B
Linear Systems III (Regular Session)	
Chair: Pagilla, Prabhakar R. Co-Chair: Seferlis, Panos	Oklahoma State Univ. Aristotle Univ. of Thessaloniki
16:00-16:20	WeC09.1
<i>H_2 and H_∞ Norm Computations for LTI Systems with Generalized Frequency Variables</i> , pp. 1862-1867.	The Univ. of Tokyo UCLA The Univ. of Tokyo
Hara, Shinji Iwasaki, Tetsuya Tanaka, Hideaki	
16:20-16:40	WeC09.2
<i>System Poles and Zeros Sensitivity for Dynamic Process Controllability</i> , pp. 1868-1873.	Aristotle Univ. of Thessaloniki/CPERI
Seferlis, Panos	
16:40-17:00	WeC09.3
<i>Overapproximating the Reachable Sets of LTI Systems through a Similarity Transformation</i> , pp. 1874-1879.	Univ. of British Columbia Univ. of British Columbia
Kaynama, Shahab Oishi, Meeko	
17:00-17:20	WeC09.4
<i>Towards Automated Loop-Shaping in Controller Parameter Space</i> , pp. 1880-1885.	Eindhoven Univ. of Tech. Eindhoven Univ. of Tech. Eindhoven Univ. of Tech. Philips Applied Tech.
Aladagli, Irmak Den Hamer, A.J. Steinbuch, Maarten Angelis, Georgo	
17:20-17:40	WeC09.5
<i>Ripple-Free Conditions in Multirate Systems Using LTI Controllers</i> , pp. 1886-1891.	Oklahoma State Univ. Oklahoma State Univ.
Cimino, Mauro Pagilla, Prabhakar R.	
17:40-18:00	WeC09.6

Static Output Feedback Design Using Asymptotic Properties of LQ Regulators, pp. 1892-1897.
Lavretsky, Eugene

The Boeing Co.

WeC10

Laurel C

Stochastic Systems III (Regular Session)

Chair: Petersen, Ian R. Co-Chair: Hespanha, Joao P.	UNSW at Australian Def. Force Acad. Univ. of California, Santa Barbara
16:00-16:20 <i>Singular Perturbation Approximations for a Class of Linear Complex Quantum Systems</i> , pp. 1898-1903. Petersen, Ian R.	WeC10.1 UNSW at Australian Def. Force Acad.
16:20-16:40 <i>Finite Horizon H_2 Control for a Class of Linear Quantum Systems: A Dynamic Game Approach</i> , pp. 1904-1911. Maalouf, Aline I. Petersen, Ian R.	WeC10.2 Univ. of New South Wales at ADFA UNSW at Australian Def. Force Acad.
16:40-17:00 <i>Coherent Control of Linear Quantum Systems: A Differential Evolution Approach</i> , pp. 1912-1917. Harno, Hendra G. Petersen, Ian R.	WeC10.3 Univ. of New South Wales @ ADFA UNSW at Australian Def. Force Acad.
17:00-17:20 <i>Optimal Estimation on the Graph Cycle Space</i> , pp. 1918-1924. Russell, William Joshua Klein, Daniel J. Hespanha, Joao P.	WeC10.4 Univ. of California, Santa Barbara Univ. of California, Santa Barbara Univ. of California, Santa Barbara
17:20-17:40 <i>Pursuit-Evasion with Acoustic Sensing Using One Step Nash Equilibria</i> , pp. 1925-1930. Goode, Brian Kurdila, Andrew J. Roan, Michael	WeC10.5 Virginia Tech. Virginia Tech. Virginia Tech.
17:40-18:00 <i>Nonlinear Optimal Trade-Off Control for LQG Problem</i> , pp. 1931-1936. Qian, Fucai Xie, Guo Liu, Ding Xie, Wenfang	WeC10.6 Xi'an Univ. of Tech. Xi'an Univ. of Tech. Xi'an Univ. of Tech. Concordia Univ.

WeC11

Grand Ballroom I

Motor Control (Regular Session)

Chair: Messner, William Co-Chair: Zheng, Kai	Carnegie Mellon Univ. Dalian Maritime Univ. China
16:00-16:20 <i>DC Motor Identification Using Speed Step Responses</i> , pp. 1937-1941. Wu, Wei	WeC11.1 Lexmark International
16:20-16:40 <i>Optimal Commutation Law by Real-Time Optimization for Multiple Motor Driven Systems</i> , pp. 1942-1947. Ruben, Shalom Tsao, Tsu-chin	WeC11.2 Univ. of California Los Angeles Univ. of California, Los Angeles
16:40-17:00 <i>Position Estimation and Control of Compact BLDC Motors Based on Analog Linear Hall Effect Sensors</i> , pp. 1948-1955. Simpkins, Alex Todorov, Emanuel	WeC11.3 Univ. of California, San Diego Univ. of California San Diego
17:00-17:20 <i>Virtual Reference Feedback Tuning (VRFT) of Velocity Controller in Self-Balancing Industrial Manual Manipulators</i> , pp. 1956-1961. Previdi, Fabio Fico, Federico Savaresi, Sergio M. Belloli, Damiano Spelta, Cristiano Pesenti, Ivan	WeC11.4 Univ. degli Studi di Bergamo Univ. degli Studi di Bergamo Pol. Di Milano Parco Scientifico del Kilometre Rosso Univ. degli studi di Bergamo Scaglia Indeva spa
17:20-17:40 <i>Nonlinear Controller Design for Permanent Magnet Synchronous Motor Using Adaptive Weighted PSO</i> , pp. 1962-1966. Yang, Ming Wang, Xingcheng Zheng, Kai	WeC11.5 Dalian Maritime Univ. Dalian Maritime Univ. Dalian Maritime Univ. China
17:40-18:00 <i>Nonlinear Modeling of Butterfly Valves and Flow Rate Control Using the Circle Criterion Bode Plot</i> , pp. 1967-1972. Taylor, Jd Sinopoli, Bruno Messner, William	WeC11.6 Carnegie Mellon Univ. Carnegie Mellon Univ. Carnegie Mellon Univ.

WeC12	Grand Ballroom II
Energy Systems II (Regular Session)	
Chair: Wagner, John R. Co-Chair: Nersesov, Sergey G.	Clemson Univ. Villanova Univ.
16:00-16:20	WeC12.1
<i>Adaptive Observer Design under Low Data Rate Transmission with Applications to Oil Well Drill-String</i> , pp. 1973-1978.	
Barreto Jijon, Rafael Canudas de Wit, Carlos Niculescu, Silviu-Iulian Dumon, Jonathan	INPG CNRS, GIPSA-Lab. CNRS-Supelec CNRS, Gipsa-Lab.
16:20-16:40	WeC12.2
<i>Closed Loop Control of the Sawtooth Instability in Nuclear Fusion</i> , pp. 1979-1984.	
Witvoet, Gert Steinbuch, Maarten Westerhof, Egbert Doelman, Niek De Baar, Marco	Eindhoven Univ. of Tech. Eindhoven Univ. of Tech. FOM TNO Science and Industry FOM
16:40-17:00	WeC12.3
<i>Simultaneous Control of Effective Atomic Number and Electron Density in Non-Burning Tokamak Plasmas</i> , pp. 1985-1990.	
Boyer, Dan Schuster, Eugenio	Lehigh Univ. Lehigh Univ.
17:00-17:20	WeC12.4
<i>A New Battery Model for Use with an Extended Kalman Filter State of Charge Estimator</i> , pp. 1991-1996.	
Knauff, Michael Niebur, Dagmar Dafis, Chris	Drexel Univ. Drexel Univ. Drexel Univ.
17:20-17:40	WeC12.5
<i>Modeling, Estimation, and Control Challenges for Lithium-Ion Batteries</i> , pp. 1997-2002.	
Chaturvedi, Nalin A. Klein, Reinhardt Christensen, Jake Ahmed, Jasim Kojic, Aleksandar	Robert Bosch LLC Robert Bosch LLC Robert Bosch LLC Program Manager Robert Bosch Res. and Tech. Center
17:40-18:00	WeC12.6
<i>Process Design and Control Studies of an Elevated-Pressure Air Separations Unit for IGCC Power Plants</i> , pp. 2003-2008.	
Mahapatra, Priyadarshi Bequette, B. Wayne	Rensselaer Pol. Inst. Rensselaer Pol. Inst.
WeC13	Grand Ballroom III
Diabetes Modeling and Control (Tutorial Session)	
Chair: Campos-Delgado, Daniel U. Co-Chair: Kirchsteiger, Harald	UASLP Johannes Kepler Univ. Linz
16:00-16:40	WeC13.1
<i>Adaptive Control Algorithm for a Rapid and Slow Acting Insulin Therapy Following Run-To-Run Methodology (I)</i> , pp. 2009-2014.	
Campos-Cornejo, Fabiola Campos-Delgado, Daniel U. Dassau, Eyal Zisser, Howard Jovanovic, Lois Doyle, Francis	UASLP UASLP Univ. of California at Santa Barbara Sansum Diabetes Res. Inst. Sansum Diabetes Res. Inst. Univ. of California at Santa Barbara
16:40-17:00	WeC13.2
<i>Prediction Oriented Online Identification of the Diabetic Glucose Metabolism</i> , pp. 2015-2020.	
Castillo Estrada, Giovanna Elizabeth Kirchsteiger, Harald Del Re, Luigi Renard, Eric	Johannes Kepler Univ. Johannes Kepler Univ. Linz Johannes Kepler Univ. Linz Centre Hospitalier Univ. de Montpellier
17:00-17:20	WeC13.3
<i>Robust Model Identification Applied to Type 1 Diabetes</i> , pp. 2021-2026.	
Finan, Daniel A. Jorgensen, John Bagterp Poulsen, Niels Kjrlstad Madsen, Henrik	Tech. Univ. of Denmark Tech. Univ. of Denmark Tech. Univ. of Denmark Tech. Univ. of Denmark
17:20-17:40	WeC13.4
<i>Development of a Physiological Model for Patients with Type 2 Diabetes Mellitus</i> , pp. 2027-2032.	
Vahidi, Omid Kwok, K. Ezra Gopaluni, Ratna Bhushan Lin, Sun	Univ. of british columbia Univ. of British Columbia Univ. of British Columbia Univ. of british columbia
17:40-18:00	WeC13.5

Receding Horizon Control of Type I Diabetes Based on a Data-Driven Linear Time-Varying State-Space Model, pp. 2033-2038.

Zhou, Jing
Wang, Qian

Penn State Univ.
Penn State Univ.

WeC14

Grand Ballroom IV

Iterative Learning Control (Regular Session)

- Chair: Bristow, Douglas A. Missouri Univ. of Science & Tech.
Co-Chair: Chen, YangQuan Utah State Univ.
- 16:00-16:20 WeC14.1
An Iteration-Domain Filter for Bounding Transient Growth in Iterative Learning Control, pp. 2039-2044.
Liu, Qing Missouri Univ. of Science & Tech.
Bristow, Douglas A. Missouri Univ. of Science & Tech.
- 16:20-16:40 WeC14.2
2-Norm Optimal Design and Reduced Implementation of Iterative and Repetitive Learning Control, pp. 2045-2050.
Kipscholl, Christian TU Darmstadt
Konigorski, Ulrich Darmstadt Univ. of Tech.
- 16:40-17:00 WeC14.3
Robust Iterative Learning Control for Output Tracking Via Second-Order Sliding Mode Technique, pp. 2051-2056.
Chen, Wen Wayne State Univ.
Chen, YangQuan Utah State Univ.
- 17:00-17:20 WeC14.4
Analysis of Two Robust Learning Control Schemes in the Presence of Random Iteration-Varying Noise, pp. 2057-2062.
Meng, Deyuan Beihang Univ. (BUAA)
Jia, Yingmin Beihang Univ.
Du, Junping Beijing Univ. of Posts and Telecommunications
Yu, Fashan Henan Pol. Univ.
- 17:20-17:40 WeC14.5
Iterative Learning Air-Fuel Ratio Control with Adaptation in Spark Ignition Engines, pp. 2063-2068.
Efimov, Denis Inst. for Problems of Mechanical Eng.
Javaherian, Hossein GM R&D
Nikiforov, Vladimir O. St. State Univ. of Information Tech. Mechanics and
- 17:40-18:00 WeC14.6
Robust Design of Terminal ILC with an Internal Model Control Using μ -Analysis and a Genetic Algorithm Approach, pp. 2069-2075.
Gauthier, Guy Ec. de Tech. Superieure
Boulet, Benoit McGill Univ.

WeC15

Grand Ballroom VII

Flight Control III (Regular Session)

- Chair: Tits, Andre L. Univ. of Maryland
Co-Chair: Beard, Randy Brigham Young Univ.
- 16:00-16:20 WeC15.1
Adaptive Tracking Control of Underactuated Quadrotor Unmanned Aerial Vehicles Via Backstepping, pp. 2076-2081.
Huang, Mu Tianjin Univ.
Xian, Bin Tian Jin Univ.
Diao, Chen Tianjin Univ.
Yang, Kaiyan Tianjin Univ.
Feng, Yu State Nuclear Power Tech. Company
- 16:20-16:40 WeC15.2
A Sliding-Mode Based Guidance Law for Intercepting Missile with Passive Ranging Law, pp. 2082-2087.
Huang, Po-Hsu National Taiwan Univ.
Wang, Ting-Kuo National Taiwan Univ.
Fu, Li-Chen National Taiwan Univ.
- 16:40-17:00 WeC15.3
Constraint-Reduced Interior-Point Optimization for Model Predictive Rotorcraft Control, pp. 2088-2094.
He, Meiyun Univ. of maryland
Kiemb, Mary Univ. of maryland
Tits, Andre L. Univ. of Maryland
Greenfield, Aaron Sikorsky Aircraft
Sahasrabudhe, Vineet Sikorsky Aircraft Corp.
- 17:00-17:20 WeC15.4
A Multivariable MRAC Design Using State Feedback for Linearized Aircraft Models with Damage, pp. 2095-2100.
Guo, Jiaxing Univ. of Virginia
Liu, Yu Univ. of Virginia
Tao, Gang Univ. of Virginia
- 17:20-17:40 WeC15.5
Motion Planning and Control for Mothership-Cable-Drogue Systems in Aerial Recovery of Micro Air Vehicles, pp. 2101-2106.
Sun, Liang Brigham Young Univ.
Beard, Randy Brigham Young Univ.
Colton, Mark Brigham Young Univ.

17:40-18:00 WeC15.6
Formation Control of VTOL UAVs without Linear-Velocity Measurements, pp. 2107-2112.
 Abdessameud, Abdelkader Univ. of Western Ontario
 Tayebi, Abdelhamid Lakehead Univ.

WeC16 Grand Ballroom VIII

Networked Control Systems III (Regular Session)
 Chair: Salapaka, Murti V. Univ. of Minnesota, Minneapolis
 Co-Chair: Lemmon, Michael Univ. of Notre Dame

16:00-16:20 WeC16.1

On the Problem of Reconstructing an Unknown Topology, pp. 2113-2118.
 Materassi, Donatello Univ. of Minnesota
 Salapaka, Murti V. Univ. of Minnesota, Minneapolis

16:20-16:40 WeC16.2

Design and Experimental Verification of Real-Time Mechanisms for Middleware for Networked Control, pp. 2119-2124.
 Kim, Kyoung-Dae Univ. of Illinois at Urbana-Champaign
 Kumar, P. R. Univ. of Illinois, Urbana-Champaign

16:40-17:00 WeC16.3

An Approach to Observer-Based Decentralized Control under Periodic Protocols, pp. 2125-2131.
 Bauer, Nicolas William Univ. of Tech. Eindhoven
 Donkers, Tijs Eindhoven Univ. of Tech.
 Heemels, Maurice Eindhoven Univ. of Tech.
 Van De Wouw, Nathan Eindhoven Univ. of Tech.

17:00-17:20 WeC16.4

Encoder and Decoder Design for Signal Estimation, pp. 2132-2137.
 Johannesson, Erik Lund Univ.
 Rantzer, Anders Lund Univ.
 Bernhardsson, Bo M. Lund Inst. of Tech.
 Ghulchak, Andrey Lund Inst. of Tech.

17:20-17:40 WeC16.5

Event-Triggered State Estimation in Vector Linear Processes, pp. 2138-2143.
 Li, Lichun U. of Notre Dame
 Lemmon, Michael Univ. of Notre Dame
 Wang, Xiaofeng Univ. of Illinois at Urbana-Champaign

WeC17 Grand Ballroom IX

Parameter Estimation (Regular Session)

Chair: Guay, Martin Queen's Univ.
 Co-Chair: Regruto, Diego Pol. di Torino

16:00-16:20 WeC17.1

A Maximum Likelihood Approach to Recursive Polynomial Chaos Parameter Estimation, pp. 2144-2151.
 Pence, Benjamin Univ. of Michigan, Department of Mechanical Engineering
 Stein, Jeffrey L. Univ. of Michigan
 Fathy, Hosam K. The Univ. of Michigan

16:20-16:40 WeC17.2

Bounding the Parameters of Linear Systems with Stability Constraints, pp. 2152-2157.
 Cerone, Vito Pol. di Torino
 Piga, Dario Pol. di Torino
 Regruto, Diego Pol. di Torino

16:40-17:00 WeC17.3

Set-Membership EIV Identification through LMI Relaxation Techniques, pp. 2158-2163.
 Cerone, Vito Pol. di Torino
 Piga, Dario Pol. di Torino
 Regruto, Diego Pol. di Torino

17:00-17:20 WeC17.4

Transfer Function Parameter Identification by Modified Relay Feedback, pp. 2164-2169.
 Soltesz, Kristian Lund Inst. of Tech.
 Hagglund, Tore Professor
 Astrom, Karl J. Lund Inst. of Tech.

17:20-17:40 WeC17.5

Parameter Identification Methods for Non-Linear Discrete-Time Systems, pp. 2170-2175.
 Lehrer, Devon Queens' Univ.
 Guay, Martin Queen's Univ.
 Adetola, Veronica United Tech. Res. Center

17:40-18:00 WeC17.6

A Hybrid Algorithm for Finite Time Parameter Estimation, pp. 2176-2181.
 Hartman, Matthew Univ. of California in Santa Barbara
 Bauer, Nicolas William Univ. of Tech. Eindhoven
 Teel, Andrew R. Univ. of California at Santa Barbara

WeC18	Grand Ballroom X
Mechatronics (Regular Session)	
Chair: Naso, David	Pol. di Bari
Co-Chair: Tsao, Tsu-chin	Univ. of California, Los Angeles
16:00-16:20	WeC18.1
<i>Optimization-Based Feedforward Control for a Drop-On-Demand Inkjet Printhead</i> , pp. 2182-2187.	
Khalate, Amol Ashok	Delft Univ. of Tech.
Bombois, Xavier	Delft Univ. of Tech.
Babuska, R.	Delft Univ. of Tech.
Wijshoff, Herman	Océ Tech. B.V.
Waarsing, Rene	OCE
16:20-16:40	WeC18.2
<i>Transmission Control for Power-Shift Agricultural Tractors</i> , pp. 2188-2193.	
Panzani, Giulio	Pol. di Milano
Tanelli, Mara	Pol. di Milano
Savaresi, Sergio M.	Pol. Di Milano
Pirola, Carlo	Same Deutz-Fahr group S.p.A.
Gavina, Giorgio	Same Deutz-Fahr group S.p.A.
Taroni, Francesco	none
16:40-17:00	WeC18.3
<i>Robust and LPV Control of an AMB System</i> , pp. 2194-2199.	
Witte, Jasper	TU Delft
Balini, Harimohan Navin Kumar	TU Delft
Scherer, Carsten W.	Delft Univ. of Tech.
17:00-17:20	WeC18.4
<i>Subspace Identification and Robust Control of an AMB System</i> , pp. 2200-2205.	
Balini, Harimohan Navin Kumar	TU Delft
Houtzager, Ivo	Delft Univ. of Tech.
Witte, Jasper	TU Delft
Scherer, Carsten W.	Delft Univ. of Tech.
17:20-17:40	WeC18.5
<i>Modeling and Control of a Magnetic Bearing System</i> , pp. 2206-2211.	
Chu, Kevin	UCLA
Wang, Yigang	Univ. of California, Los Angeles
Wilson, Jason	Univ. of California, Los Angeles
Tsao, Tsu-chin	Univ. of California, Los Angeles
Lin, Chi-Ying	National Taiwan Univ. of Science and Tech.
17:40-18:00	WeC18.6
<i>Micrometric Control of a Mechatronic Linear Servo System with NPID and Adaptive Approximation</i> , pp. 2212-2217.	
Naso, David	Pol. di Bari
Cupertino, Francesco	Pol. di Bari
Patruno, Domenico	Pol. di Bari
Turchiano, Biagio	Pol. di Bari
WeC19	Dover A
Engine Control (Regular Session)	
Chair: Jankovic, Mrdjan	Ford Res. & Advanced Engineering
Co-Chair: Wang, Junmin	Ohio State Univ.
16:00-16:20	WeC19.1
<i>Discrete-Time Cross-Term Forwarding Design of Robust Controllers for HCCI Engines</i> , pp. 2218-2223.	
Chiang, Chia-Jui	National Taiwan Univ. of Science and Tech.
Huang, Chun-Chuan	National Taiwan Univ. of Science and Tech.
Jankovic, Mrdjan	Ford Res. & Advanced Engineering
16:20-16:40	WeC19.2
<i>Real-Time Hardware Implementation of Symbolic Health Monitoring for Aircraft Engine Components (I)</i> , pp. 2224-2229.	
Yasar, Murat	Tech. Inc.
Purekar, Ashish	Tech. Inc.
Sheth, Datta	Tech.
16:40-17:00	WeC19.3
<i>A LPV Fault Detection and Isolation Method for Spark Injection Engines</i> , pp. 2230-2235.	
Gagliardi, Gianfranco	Univ. degli studi della Calabria
Casavola, Alessandro	Univ. Della Calabria
De Cristofaro, Ferdinando	Elasis - Fiat Powertrain Technologies
Famularo, Domenico	Univ. degli Studi Mediterranea di Reggio Calabria
Franze', Giuseppe	Univ. Degli Studi della Calabria
17:00-17:20	WeC19.4
<i>Adaptive Controller with Delay Compensation for Air-Fuel Ratio Regulation in SI Engines</i> , pp. 2236-2241.	
Kahveci, Nazli E.	Ford Motor Company
Jankovic, Mrdjan	Ford Res. & Advanced Engineering

17:20-17:40		WeC19.5
<i>Modeling and Identification of a Mechatronic Exhaust Gas Recirculation Actuator of an Internal Combustion Engine</i> , pp. 2242-2247.		
Laghrouche, Salah		UTBM
Ahmed, Fayez Shakil		UTBM
EL-Bagdouri, Mohamed		UTBM
Wack, Maxime		UTBM
Gaber, Jaafar		UTBM
Becherif, Mohamed	Lab. Systèmes et Transport SeT-UTBM	
17:40-18:00		WeC19.6
<i>Common Rail Injection System On-Line Parameter Calibration for Precise Injection Quantity Control</i> , pp. 2248-2253.		
Yan, Fengjun	The Ohio State Univ.	
Wang, Junmin	Ohio State Univ.	

WeC20		Dover B
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Traffic Modeling and Control (Invited Session)		
Chair: De Schutter, Bart		Delft Univ. of Tech.
Co-Chair: Zegeye, Solomon Kidane		Delft Univ. of Tech.
Organizer: De Schutter, Bart		Delft Univ. of Tech.
Organizer: Zegeye, Solomon Kidane		Delft Univ. of Tech.
16:00-16:20		WeC20.1
<i>Hybrid System's Model and Algorithm for Highway Traffic Monitoring</i> , pp. 2254-2259.		
Aligawesa, Alinda		Purdue Univ.
Hwang, Inseok		Purdue Univ.
16:20-16:40		WeC20.2
<i>Using Aurora Road Network Modeler for Active Traffic Management (I)</i> , pp. 2260-2265.		
Kurzhan'skiy, Alex A.		Univ. of California, Berkeley
Varaiya, Pravin P.		Univ. of California at Berkeley
16:40-17:00		WeC20.3
<i>Combining Variable Speed Limits with Ramp Metering for Freeway Traffic Control (I)</i> , pp. 2266-2271.		
Lu, Xiao-Yun		Univ. of California at Berkeley
Qiu, Tony Z.		Univ. of California, Berkeley
Varaiya, Pravin P.		Univ. of California at Berkeley
Horowitz, Roberto		Univ. of California at Berkeley
Shladover, Steven E.		Univ. of California at Berkeley
17:00-17:20		WeC20.4
<i>Model Predictive Control for Urban Traffic Networks Via MILP (I)</i> , pp. 2272-2277.		
Lin, Shu	Shanghai Jiao Tong Univ. & Delft Univ. of Tech.	
De Schutter, Bart		Delft Univ. of Tech.
Xi, Yugeng		Shanghai Jiao Tong Univ.
Hellendoorn, Hans		Delft Univ. of Tech.
17:20-17:40		WeC20.5
<i>Fuzzy Models and Observers for Freeway Traffic State Tracking (I)</i> , pp. 2278-2283.		
Lendek, Zsofia		Delft Univ. of Tech.
Babuska, R.		Delft Univ. of Tech.
De Schutter, Bart		Delft Univ. of Tech.
17:40-18:00		WeC20.6
<i>Model Predictive Traffic Control to Reduce Vehicular Emissions - an LPV-Based Approach (I)</i> , pp. 2284-2289.		
Zegeye, Solomon Kidane		Delft Univ. of Tech.
De Schutter, Bart		Delft Univ. of Tech.
Hellendoorn, Hans		Delft Univ. of Tech.

WeC21		Dover C
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Command Shaping for Vibration Suppression (Invited Session)		
Chair: Meckl, Peter H.		Purdue Univ.
Co-Chair: Devasia, Santosh		Univ. of Washington
Organizer: Meckl, Peter H.		Purdue Univ.
16:00-16:20		WeC21.1
<i>Design of Input Shapers Using Modal Cost for Multi-Mode Systems (I)</i> , pp. 2290-2295.		
Kumar, Ravi		Univ. at Buffalo State Univ. of New York
Singh, Tarunraj		State Univ. of New York at Buffalo
16:20-16:40		WeC21.2
<i>Dynamics and Zero Vibration Input Shaping Control of a Small-Scale Boom Crane (I)</i> , pp. 2296-2301.		
Maleki, Ehsan		Georgia Inst. of Tech.
Singhose, William		Georgia Inst. of Tech.
16:40-17:00		WeC21.3
<i>Vibration Reduction Using Time-Optimal Shaping Filters with Reduced Higher-Mode Excitations (I)</i> , pp. 2302-2307.		
Dhanda, Abhishek		Stanford Univ.
Franklin, Gene F.		Stanford Univ.
17:00-17:20		WeC21.4

<i>Advantages of Using Command Shaping Over Feedback for Crane Control (I)</i> , pp. 2308-2313.	Georgia Inst. of Tech. Georgia Inst. of Tech. Georgia Inst. of Tech.
Vaughan, Joshua Maleki, Ehsan Singhose, William	
17:20-17:40	WeC21.5
<i>An Improved Implementation Scheme for Time-Optimal Commands Using Symmetric Filters (I)</i> , pp. 2314-2319.	Stanford Univ. Stanford Univ.
Dhanda, Abhishek Franklin, Gene F.	
17:40-18:00	WeC21.6
<i>Nonlinear Minimum-Time Feedforward Control for Output Transition with Pre and Post-Actuation (I)</i> , pp. 2320-2325.	Univ. of Washington
Devasia, Santosh	

WeC22 Laurel D

Optimal Control III (Regular Session)

Chair: Jørgensen, John Bagterp	Tech. Univ. of Denmark
Co-Chair: Muenchhof, Marco	Univ. of Tech. at Darmstadt
16:00-16:20	WeC22.1
<i>Optimal Decentralization of Multi-Agent Motions</i> , pp. 2326-2331.	
Twu, Philip	Georgia Inst. of Tech.
Egerstedt, Magnus	Georgia Inst. of Tech.
16:20-16:40	WeC22.2
<i>H-Infinity Controller Design for a Multi-Agent System Based on a Replicated Control Structure</i> , pp. 2332-2337.	
Popov, Andrey	Hamburg Univ. of Tech.
Werner, Herbert	Hamburg Univ. of Tech.
16:40-17:00	WeC22.3
<i>A Full Block S-Procedure Application to Distributed Control</i> , pp. 2338-2343.	
Massioni, Paolo	Delft Univ. of Tech.
Verhaegen, Michel	Delft Univ. of Tech.
17:00-17:20	WeC22.4
<i>Partial Compensation of Large Scale Discrete Systems</i> , pp. 2344-2348.	
Baine, Nicholas Allen	Wright State Univ.
Kolakowski, Terry	Wright State Univ.
Lee, Julie	Wright State Univ.
Misra, Pradeep	Wright Univ.
17:20-17:40	WeC22.5
<i>Applying Optimal Control Using SLP on a Hydraulic System</i> , pp. 2349-2354.	
Verlohren, Christoph	Tech. Univ. Darmstadt
Muenchhof, Marco	Univ. of Tech. at Darmstadt
Singh, Tarunraj	State Univ. of New York at Buffalo
17:40-18:00	WeC22.6
<i>Tuning of Methods for Offset Free MPC Based on ARX Model Representations</i> , pp. 2355-2360.	
Huusom, Jakob Kj̈rbsted	Tech. Univ. of Denmark
Poulsen, Niels Kj̈rlstad	Tech. Univ. of Denmark
Jørgensen, Sten Bay	Tech. Univ. of Denmark
Jørgensen, John Bagterp	Tech. Univ. of Denmark


ThSP1 Grand Ballroom V

Control As a Key Technology for a Radical Innovation in Wind Energy Generation (Semiplenary Session)

Chair: Braatz, Richard D.	Univ. of Illinois, Urbana-Champaign
Co-Chair: Allgower, Frank	Univ. of Stuttgart
08:00-09:00	ThSP1.1
<i>Control As a Key Technology for a Radical Innovation in Wind Energy Generation</i> , pp. 2361-2377.	
Milanese, Mario	Pol. di Torino
Fagiano, Lorenzo	Pol. di Torino
Piga, Dario	Pol. di Torino

ThSP2 Grand Ballroom VI

Medical Robotics and Computer-Integrated Surgery (Semiplenary Session)

Chair: Masada, Glenn Y.	Univ. of Texas at Austin
Co-Chair: Beck, Carolyn L.	Univ. of Illinois, Urbana-Champaign
08:00-09:00	ThSP2.1
<i>Medical Robotics and Computer-Integrated Surgery*</i> . 	
Taylor, Russell H.	Johns Hopkins Univ.

ThA01 Kent A

Humans-In-The-Loop Control Systems (Invited Session)

Chair: Bertuccelli, Luca F.	Massachusetts Inst. of Tech.
Co-Chair: Savla, Ketan	Massachusetts Inst. of Tech.
Organizer: Bertuccelli, Luca F.	Massachusetts Inst. of Tech.

Organizer: Savla, Ketan	Massachusetts Inst. of Tech.
09:20-09:40	ThA01.1
<i>Steady-State Distributions for Human Decisions in Two-Alternative Choice Tasks (I)</i> , pp. 2378-2383.	
Stewart, Andrew Reed	Princeton Univ.
Cao, Ming	Univ. of Groningen
Leonard, Naomi Ehrich	Princeton Univ.
09:40-10:00	ThA01.2
<i>Discrete Event Modeling of Heterogeneous Human Operator Team in Classification Task (I)</i> , pp. 2384-2389.	
Hyun, Baro	Univ. of Michigan
Park, Calvin	Univ. of Michigan
Wang, Weilin	Univ. of Michigan
Girard, Anouck	Univ. of Michigan, Ann Arbor
10:00-10:20	ThA01.3
<i>Accuracy and Decision Time for Decentralized Implementations of the Sequential Probability Ratio Test (I)</i> , pp. 2390-2395.	
Dandach, Sandra Hala	Univ. of California, Santa Barbara
Carli, Ruggero	Univ. of Padova
Bullo, Francesco	Univ. California at Santa Barbara
10:20-10:40	ThA01.4
<i>Search Decisions in a Game of Polynomial Root Counting (I)</i> , pp. 2396-2403.	
Raghunathan, Dhananjay	Boston Univ.
Baillieul, John	Boston Univ.
10:40-11:00	ThA01.5
<i>Maximally Stabilizing Task Release Control Policy for a Dynamical Queue (I)</i> , pp. 2404-2409.	
Savla, Ketan	Massachusetts Inst. of Tech.
Frazzoli, Emilio	Massachusetts Inst. of Tech.
11:00-11:20	ThA01.6
<i>Choice Modeling of Relook Tasks for UAV Search Missions (I)</i> , pp. 2410-2415.	
Bertuccelli, Luca F.	Massachusetts Inst. of Tech.
Pellegrino, Nicholas	MIT
Cummings, Mary (Missy)	MIT

ThA02	Kent B
Control Algorithms (Regular Session)	
Chair: Martinez, Sonia	Univ. of California at San Diego
Co-Chair: Egerstedt, Magnus	Georgia Inst. of Tech.
09:20-09:40	ThA02.1
<i>Expanding Motion Programs under Input Constraints</i> , pp. 2416-2421.	
Martin, Patrick	Georgia Inst. of Tech.
Egerstedt, Magnus	Georgia Inst. of Tech.
09:40-10:00	ThA02.2
<i>Spatial Statistics and Distributed Estimation by Robotic Sensor Networks</i> , pp. 2422-2427.	
Graham, Rishi	Univ. of California at Santa Cruz
Cortes, Jorge	Univ. of California, San Diego
10:00-10:20	ThA02.3
<i>Adaptive Predictive Control of a Class of Discrete-Time MIMO Nonlinear Systems with Uncertain Couplings</i> , pp. 2428-2433.	
Yang, Chenguang	Imperial Coll. London
Li, Yanan	National Univ. of Singapore
Ge, Shuzhi Sam	National Univ. of Singapore
Lee, Tong Heng	National Univ. of Singapore
10:20-10:40	ThA02.4
<i>On Distributed Optimization under Inequality and Equality Constraints Via Penalty Primal-Dual Methods</i> , pp. 2434-2439.	
Zhu, Minghui	Univ. of California, San Diego
Martinez, Sonia	Univ. of California at San Diego
10:40-11:00	ThA02.5
<i>When Does a Digraph Admit a Doubly Stochastic Adjacency Matrix?</i> , pp. 2440-2445.	
Gharesifard, Bahman	Univ. of California San Diego
Cortes, Jorge	Univ. of California, San Diego
11:00-11:20	ThA02.6
<i>Sliding Mode Control of Two-Level Quantum Systems with Bounded Uncertainties</i> , pp. 2446-2451.	
Dong, Daoyi	Univ. of New South Wales
Petersen, Ian R.	UNSW at Australian Def. Force Acad.

ThA03	Harborside Ballroom D
Adaptive Control IV (Regular Session)	
Chair: Nguyen, Nhan	NASA Ames Res. Center
Co-Chair: Hoagg, Jesse B.	Univ. of Michigan
09:20-09:40	ThA03.1
<i>Adaptive Feedback Linearization for an Uncertain Nonlinear System Using Support Vector Regression</i> , pp. 2452-2457.	
Shin, Jongho	Seoul National Univ.

Kim, H. Jin	Seoul National Univ.
Kim, Youdan	Seoul National Univ.
09:40-10:00	ThA03.2
<i>L1 Adaptive Control of Event-Triggered Networked Systems</i> , pp. 2458-2463.	
Wang, Xiaofeng	Univ. of Illinois at Urbana-Champaign
Hovakimyan, Naira	Univ. of Illinois, Urbana-Champaign
10:00-10:20	ThA03.3
<i>Delay-Adaptive Feedback for Linear Feedforward Systems</i> , pp. 2464-2469.	
Bekiaris-Liberis, Nikolaos	Univ. of California, San Diego
Krstic, Miroslav	Univ. of California at San Diego
10:20-10:40	ThA03.4
<i>Optimal Control Modification Adaptive Law for Time-Scale Separation</i> , pp. 2470-2475.	
Nguyen, Nhan	NASA Ames Res. Center
10:40-11:00	ThA03.5
<i>Variable Structure Adaptive Backstepping Control for a Class of Unknown Switched Linear Systems</i> , pp. 2476-2481.	
Chiang, Ming-Li	National Taiwan Univ.
Fu, Li-Chen	National Taiwan Univ.
11:00-11:20	ThA03.6
<i>A Q-Modification Neuroadaptive Control Architecture for Discrete-Time Systems</i> , pp. 2482-2486.	
Volyanskyy, Kostyantyn	Georgia Inst. of Tech.
Haddad, Wassim M.	Georgia Inst. of Tech.

ThA04	Harborside Ballroom E
Switched Systems II (Regular Session)	
Chair: Chesi, Graziano	Univ. of Hong Kong
Co-Chair: Garcia, Rafael A.	Inst. Tecnológico de Buenos Aires
09:20-09:40	ThA04.1
<i>Computing Upper-Bounds of the Minimum Dwell Time of Linear Switched Systems Via Homogeneous Polynomial Lyapunov Functions</i> , pp. 2487-2492.	
Chesi, Graziano	Univ. of Hong Kong
Colaneri, Patrizio	Pol. di Milano
Geromel, Jose C.	UNICAMP
Middleton, Richard H.	National Univ. of Ireland Maynooth
Shorten, Robert	Nat. Univ. of Ireland
09:40-10:00	ThA04.2
<i>Invariance Results for Constrained Switched Systems</i> , pp. 2493-2498.	
Mancilla-Aguilar, J. L.	Inst. Tecnológico de Buenos Aires
Garcia, Rafael A.	Inst. Tecnológico de Buenos Aires
10:00-10:20	ThA04.3
<i>Control Design for Switched Systems Using Passivity Indices</i> , pp. 2499-2504.	
McCourt, Michael J.	Univ. of Notre Dame
Antsaklis, Panos J.	Univ. of Notre Dame
10:20-10:40	ThA04.4
<i>Stability Analysis of Planar Continuous Piecewise Linear Systems</i> , pp. 2505-2510.	
Xu, Jun	Tsinghua Univ.
Huang, Xiaolin	Tsinghua Univ.
Wang, Shuning	Tsinghua Univ.
10:40-11:00	ThA04.5
<i>Quadratic Optimization for Controller Initialization in Multivariable Switching Systems</i> , pp. 2511-2516.	
R. Pour Safaei, Farshad	Univ. of California, Santa Barbara
Hespanha, Joao P.	Univ. of California, Santa Barbara
Stewart, Greg E	Honeywell Automation & Control Sol.
11:00-11:20	ThA04.6
<i>Stability Analysis for Class of Switched Nonlinear Systems</i> , pp. 2517-2520.	
Shaker, Hamid Reza	aalborg Univ.
How, Jonathan P.	MIT

ThA05	Essex A
Power Systems III (Regular Session)	
Chair: Bodson, Marc	Univ. of Utah
Co-Chair: Giusto, Alvaro	Univ. de la Republica
09:20-09:40	ThA05.1
<i>Optimal Power Flow in Microgrids Using Event-Triggered Optimization</i> , pp. 2521-2526.	
Wan, Pu	Univ. of Notre Dame
Lemmon, Michael	Univ. of Notre Dame
09:40-10:00	ThA05.2
<i>Analytic Conditions for Spontaneous Self-Excitation in Induction Generators</i> , pp. 2527-2532.	
Bodson, Marc	Univ. of Utah
Kiselychynk, Oleh	National Tech. Univ. of Ukraine "Kiev Pol. Inst.

10:00-10:20		ThA05.3
<i>3-Phase AC/DC Boost Converter Power Factor Control Via Traditional and Second Order Sliding Modes</i> , pp. 2533-2538.		
Schaeffel, Robert		Univ. of Alabama in Huntsville
Shtessel, Yuri B.		Univ. of Alabama at Huntsville
Baev, Simon		Georgia Southwestern State Univ. (GSW)
Biglari, Haik		FAIRCHILD CONTROLS Corp.
10:20-10:40		ThA05.4
<i>The Complex Hurwitz Test for the Stability Analysis of Induction Generators</i> , pp. 2539-2544.		
Bodson, Marc		Univ. of Utah
10:40-11:00		ThA05.5
<i>Application of Frequential Properties of Power Systems to Robustness Analysis</i> , pp. 2545-2550.		
Giusto, Alvaro		Univ. de la Republica
11:00-11:20		ThA05.6
<i>A Sliding Mode Control for a Wound Rotor Synchronous Generator with an Isolated RL Load</i> , pp. 2551-2556.		
Muñoz-Aguilar, Raúl Santiago		Tech. Univ. of Catalonia (UPC)
Dñria-Cerezo, Arnau		Tech. Univ. of Catalonia (UPC)
Fossas, Enric		Univ. Pol. de Catalunya

ThA06		Essex B
Distributed Parameter Systems I (Regular Session)		

Chair: Arcak, Murat		Univ. of California, Berkeley
Co-Chair: Klose, Silke		Tech. Univ. Darmstadt
09:20-09:40		ThA06.1
<i>Transient Energy Analysis of Spatially Interconnected Model for 3D Poiseuille Flow</i> , pp. 2557-2562.		
Chughtai, Saulat Shuja		Hamburg Univ. of Tech.
Werner, Herbert		Hamburg Univ. of Tech.
09:40-10:00		ThA06.2
<i>Design of a Decoupling Controller Structure for First Order Hyperbolic PDEs with Distributed Control Action</i> , pp. 2563-2568.		
Winkler, Franz Josef		Tech. Univ. München
Lohmann, Boris		Tech. Univ. München
10:00-10:20		ThA06.3
<i>Modeling of Transversal Dynamics of Stepped Beams in Case of Boundary-Excitation</i> , pp. 2569-2574.		
Klose, Silke		Tech. Univ. Darmstadt
Konigorski, Ulrich		Darmstadt Univ. of Tech.
10:20-10:40		ThA06.4
<i>Absolute Stability of Coupled Dissipative Parabolic Equations with Wave-Speed Mistuning</i> , pp. 2575-2580.		
Hagen, Gregory		United Tech. Res. Center
10:40-11:00		ThA06.5
<i>Finite Dimensional Adaptive H-Infinity Control for Distributed Parameter Systems of Hyperbolic Type Preceded by Input Nonlinearity</i> , pp. 2581-2586.		
Miyasato, Yoshihiko		Inst. of Statistical Mathematics
11:00-11:20		ThA06.6
<i>On Spatially-Uniform Behavior in Reaction-Diffusion Systems (I)</i> , pp. 2587-2592.		
Arcak, Murat		Univ. of California, Berkeley


ThA07		Essex C
Discrete Event Systems I (Regular Session)		

Chair: Thorsley, David		Univ. of Washington
Co-Chair: Litz, Lothar		Univ. of Kaiserslautern
09:20-09:40		ThA07.1
<i>A Control Method for Timed Distributed Continuous Petri Nets</i> , pp. 2593-2600.		
Apaydin, Hanife		Anadolu Univ.
Julvez, Jorge		Univ. of Zaragoza
Mahulea, Cristian		Univ. of Zaragoza
Silva, Manuel		Univ. De Zaragoza
09:40-10:00		ThA07.2
<i>Black-Box Identification of Discrete Event Systems with Optimal Partitioning of Concurrent Subsystems</i> , pp. 2601-2606.		
Roth, Matthias		Univ. of Kaiserslautern
Lesage, Jean-jacques		Ens Cachan
Litz, Lothar		Univ. of Kaiserslautern
10:00-10:20		ThA07.3
<i>Optimal Design of Fault-Tolerant Petri Net Controllers</i> , pp. 2607-2612.		
Qu, Yizhi		Indiana Univ. Purdue Univ. Indianapolis
Li, Lingxi		Indiana Univ. Univ. Indianapolis
Chen, Yaobin		Purdue School of Engr and Tech. IUPUI
Dai, Yaping		Beijing Inst. of Tech.
10:20-10:40		ThA07.4
<i>Decentralized Diagnosis of Discrete Event Systems Modeled by Mealy Automata with Nondeterministic Output Functions</i> , pp. 2613-2618.		

Takai, Shigemasa	Osaka Univ.
Ushio, Toshimitsu	Osaka Univ.
10:40-11:00	ThA07.5
<i>On Partial Observability in Discrete Event Control with Pushdown Systems</i> , pp. 2619-2622.	
Griffin, Christopher	Penn State Univ.
11:00-11:20	ThA07.6
<i>Diagnosability of Stochastic Chemical Kinetic Systems: A Discrete Event Systems Approach</i> , pp. 2623-2630.	
Thorsley, David	Univ. of Washington

ThA08	Laurel A
Data Storage Systems (Tutorial Session)	
Chair: Messner, William	Carnegie Mellon Univ.
Co-Chair: Horowitz, Roberto	Univ. of California, Berkeley
09:20-10:00	ThA08.1
<i>Control Design of Concentric Self-Servo Track Writing Systems for Hard Disk Drives (I)</i> , pp. 2631-2640.	
Nie, Jianbin	Univ. of California, Berkeley
Horowitz, Roberto	Univ. of California at Berkeley
10:00-10:20	ThA08.2
<i>Optimal Plant Shaping for High Bandwidth Disturbance Rejection in Discrete Disturbance Observers</i> , pp. 2641-2646.	
Chen, Xu	Univ. of California at Berkeley
Tomizuka, Masayoshi	Univ. of California, Berkeley
10:20-10:40	ThA08.3
<i>Two-Stage Design of Multirate Infinity Optimal Controllers</i> , pp. 2647-2652.	
López-López, Sergio	Univ. of California, Irvine
Sideris, Athanasios	Univ. of California at Irvine
Yu, Jie	Western Digital Corp.
10:40-11:00	ThA08.4
<i>Active Tape Edge Position Control System Using a Complex Proportional-Integral-Lead Compensator</i> , pp. 2653-2658.	
Kim, Man seong	Carnegie Mellon Univ.
Gentilini, Iacopo	Carnegie Mellon Univ.
Messner, William	Carnegie Mellon Univ.
11:00-11:20	ThA08.5
<i>Loop-Shaping Controller Design with the RBode Plot for Hard Disk Drives</i> , pp. 2659-2664.	
Atsumi, Takenori	Hitachi, Ltd.
Messner, William	Carnegie Mellon Univ.

ThA09	Laurel B
Stability Analysis I (Regular Session)	
Chair: Postlethwaite, Ian	Univ. of Leicester
Co-Chair: Michel, Anthony N.	Univ. of Notre Dame
09:20-09:40	ThA09.1
<i>Global Stability for Systems with Nested Backlash and Saturation Operators</i> , pp. 2665-2670.	
Tarbouriech, Sophie	LAAS-CNRS
Prieur, Christophe	LAAS-CNRS
Queinnec, Isabelle	LAAS-CNRS
Simoës dos Santos, Talia	Univ. of Campinas
09:40-10:00	ThA09.2
<i>L2 Gain Bounds for Systems with Slope-Restricted Nonlinearities</i> , pp. 2671-2676.	
Turner, Matthew C.	Univ. of Leicester
Kerr, Murray Lawrence	Deimos Space
Postlethwaite, Ian	Northumbria Univ.
Sofrony, Jorge Ivan	Univ. Nacional de Colombia
10:00-10:20	ThA09.3
<i>Absolute Stability of Lur'e Singularly Perturbed Systems with Multiple Nonlinearities</i> , pp. 2677-2681.	
Yang, Chunyu	Northeastern Univ.
Zhang, Qingling	Northeastern Univ.
Chou, Jyh-Horng	National Kaohsiung First Univ. of Science and Technology
Zhang, Yingwei	Northeastern Univ.
10:20-10:40	ThA09.4
<i>Stability Results for Finite-Dimensional Discrete-Time Dynamical Systems Involving Non-Monotonic Lyapunov Functions</i> , pp. 2682-2687.	
Michel, Anthony N.	Univ. of Notre Dame
Hou, Ling	St. Cloud State Univ.
10:40-11:00	ThA09.5
<i>Stability Analysis and State Feedback Control Design of Discrete-Time Systems with a Backlash</i> , pp. 2688-2693.	
Prieur, Christophe	LAAS-CNRS
Oliveira, Ricardo C. L. F.	Univ. of Campinas
Tarbouriech, Sophie	LAAS-CNRS
Peres, Pedro L. D.	Univ. of Campinas

ThA10	Laurel C
Model Reduction (Regular Session)	
Chair: Kerrigan, Eric C. Co-Chair: Westwick, David	Imperial Coll. London Univ. of Calgary
09:20-09:40	ThA10.1
<i>A Convex Method for Selecting Optimal Laguerre Filter Banks in System Modelling and Identification</i> , pp. 2694-2699. Dankers, Arne Westwick, David	Univ. of Calgary Univ. of Calgary
09:40-10:00	ThA10.2
<i>Model Reduction of Nonlinear Systems: Tangent Space Approach</i> , pp. 2700-2705. Vaidya, Umesh Hagen, Gregory	Iowa State Univ. United Tech. Res. Center
10:00-10:20	ThA10.3
<i>Nonlinear Cause-Effect Analysis for a Second Order System Using Volterra Kernels</i> , pp. 2706-2711. Omran, Ashraf Newman, Brett	Old Dominion Univ. Old Dominion Univ.
10:20-10:40	ThA10.4
<i>A Framework for Reduced Order Modeling with Mixed Moment Matching and Peak Error Objectives</i> , pp. 2712-2717. Santarelli, Keith	Sandia National Lab.
10:40-11:00	ThA10.5
<i>Model Reduction of Homogeneous-In-The-State Bilinear Systems with Input Constraints</i> , pp. 2718-2723. Couchman, Ian Kerrigan, Eric C. Bohm, Christoph	Imperial Coll. Imperial Coll. London Univ. of Stuttgart
11:00-11:20	ThA10.6
<i>The Best Optimal Hankel-Norm Approximation of Railway Active Wheelset Models</i> , pp. 2724-2729. Young, Jieh-Shian	National Changhwa Univ. of Education
ThA11	Grand Ballroom I
Control Applications I (Regular Session)	
Chair: Stefanovic, Margareta Co-Chair: Garg, Devendra P.	Univ. of Wyoming Duke Univ.
09:20-09:40	ThA11.1
<i>LQG Control of an Optical Squeezer</i> , pp. 2730-2735. Sayed Hassen, Sayed Z. Petersen, Ian R. Huntington, Elanor Heurs, Michele James, Matthew R.	Univ. of New South Wales at the Australian Defence Force Ac UNSW at Australian Def. Force Acad. Univ. of New South Wales Univ. of New South Wales Australian National Univ.
09:40-10:00	ThA11.2
<i>A Time-Varying Kalman Filter Approach to Integral LQG Frequency Locking of an Optical Cavity</i> , pp. 2736-2741. Sayed Hassen, Sayed Z. Petersen, Ian R.	Univ. of New South Wales at the Australian Defence Force Ac UNSW at Australian Def. Force Acad.
10:00-10:20	ThA11.3
<i>Discrimination and Tracking of Individual Agents in a Swarm of Robots</i> , pp. 2742-2747. Fricke, Gregory Garg, Devendra P.	Duke Univ. Duke Univ.
10:20-10:40	ThA11.4
<i>Automotive Transmission Clutch Fill Optimal Control: An Experimental Investigation (I)</i> , pp. 2748-2753. Song, Xingyong Mohd Zulkefli, Mohd Azrin Sun, Zongxuan	Univ. of Minnesota, Twin Cities Univ. of Minnesota, Twin Cities Campus Univ. of Minnesota
10:40-11:00	ThA11.5
<i>Proposal of Surface Topography Observer Considering Z-Scanner for High-Speed AFM (I)</i> , pp. 2754-2759. Shiraishi, Takayuki Fujimoto, Hiroshi	Yokohama National Univ. Yokohama National Univ.
ThA12	Grand Ballroom II
Wind Power (Tutorial Session)	
Chair: Balas, Mark Co-Chair: Thomsen, Sven Creutz	Univ. of Wyoming Tech. Univ. of Denmark
09:20-10:00	ThA12.1
<i>Augmented Adaptive Control of a Wind Turbine in the Presence of Structural Modes (I)</i> , pp. 2760-2765. Frost, Susan Balas, Mark Wright, Alan	NASA Ames Res. Center Univ. of Wyoming National Renewable Energy Lab.
10:00-10:20	ThA12.2
<i>Model Based Fault Diagnosis Method for Wind Turbine Hydraulic Pitching Systems*</i> . P [ CC BY-ND	

Wu, Xin	Univ. of Wisconsin, Milwaukee
Li, Yaoyu	Univ. of Wisconsin-Milwaukee
Yang, Zhongzhou	Univ. of Wisconsin-Milwaukee
Lu, Bin	Eaton Corp. Innovation Center
10:20-10:40	ThA12.3
<i>Sensorless Adaptive Observer of Wind Synchronous Generator</i> , pp. 2766-2771.	
El Magri, Abdelmounime	EMI
Giri, Fouad	Univ. de Caen
Abouloifa, Abdelmajid	EMI
Elfadili, Abderrahim	mohamed V
Dugard, Luc	CNRS-INPG
10:40-11:00	ThA12.4
<i>Stochastic Wind Turbine Control in Multiblade Coordinates</i> , pp. 2772-2777.	
Thomsen, Sven Creutz	Tech. Univ. of Denmark
Niemann, Henrik	Tech. Univ. of Denmark
Poulsen, Niels Kjrlstad	Tech. Univ. of Denmark
11:00-11:20	ThA12.5
<i>Multiple Model MIMO Predictive Control for Variable Speed Variable Pitch Wind Turbines</i> , pp. 2778-2784.	
Soliman, Mostafa	UofC
Malik, O.P.	The Univ. of Calgary
Westwick, David	Univ. of Calgary

ThA13	Grand Ballroom III
Biomedical Robotics (Regular Session)	

Chair: Agrawal, Sunil K.	Univ. of Delaware
Co-Chair: Cortesao, Rui	Univ. of Coimbra
09:20-09:40	ThA13.1
<i>Accelerated Needle Steering Using Partitioned Value Iteration</i> , pp. 2785-2790.	
Asadian, Ali	Univ. of Western Ontario
Kermani, Mehrdad R.	Univ. of Western Ontario
Patel, Rajni	Univ. of Western Ontario
09:40-10:00	ThA13.2
<i>Stable Teleoperation with Communication Unreliabilities and Partial Human/Environment Knowledge</i> , pp. 2791-2796.	
Vittorias, Iason	Tech. Univ. München
Hirche, Sandra	Tech. Univ. München
10:00-10:20	ThA13.3
<i>Feedback-Based Simultaneous Detection of Two Resonance Frequencies of a Minimally-Invasive-Surgery Instrument</i> , pp. 2797-2798.	
Heydari Araghi, Morteza	Univ. of Western Ontario
Salisbury, Shaun	Univ. of Western Ontario
10:20-10:40	ThA13.4
<i>Walk-Assist Robot: A Novel Approach to Gain Selection of a Braking Controller Using Differential Flatness</i> , pp. 2799-2804.	
Ko, Chun-Hsu	I-Shou Univ.
Agrawal, Sunil K.	Univ. of Delaware
10:40-11:00	ThA13.5
<i>Active Impedance Control Design for Human-Robot Comanipulation</i> , pp. 2805-2810.	
Cortesao, Rui	Univ. of Coimbra
Sousa, Cristóvão	Inst. of Systems and Robotics
Queirós, Pedro Luís Rodrigues de	Univ. of Coimbra
11:00-11:20	ThA13.6
<i>Robust Adaptive Control of a Micro Telemanipulation System Using Sliding Mode-Based Force Estimation</i> , pp. 2811-2816.	
Motamedi, Mohammad	Amirkabir Univ. of Tech.
Vossoughi, Gholamreza	Sharif Univ. of Tech.
Ahmadian, Mohammad Taghi	Sharif Univ. of Tech.
Rezaei, Seyed Mehdi	Amirkabir Univ. of Tech.
Zareinejad, Mohammad	Amirkabir Univ. of Tech. Tehran Iran
Saadat, Mozafar	The Univ. of Birmingham

ThA14	Grand Ballroom IV
Control and Monitoring of Networked Process Systems (Invited Session)	

Chair: El-Farra, Nael H.	Univ. of California, Davis
Co-Chair: Mhaskar, Prashant	McMaster Univ.
Organizer: El-Farra, Nael H.	Univ. of California, Davis
Organizer: Mhaskar, Prashant	McMaster Univ.
09:20-09:40	ThA14.1
<i>Measure of Disagreement of Spatially Distributed Filters for Distributed Parameter Systems (I)</i> , pp. 2817-2822.	
Demetriou, Michael A.	Worcester Pol. Inst.
09:40-10:00	ThA14.2
<i>Generalized Reduction Constraints for the Global Optimization of Dynamic Process Networks Using Topological Invariants (I)</i> , pp. 2823-2828.	

Wartmann, Michael R.	Carnegie Mellon Univ.
Heirung, Tor Aksel Notland	Carnegie Mellon Univ.
Ruiz, Juan Pablo	Carnegie Mellon Univ.
Ydstie, B. Erik	Carnegie Mellon
10:00-10:20	ThA14.3
<i>Uniting Safe-Parking and Reconfiguration-Based Approaches for Fault-Tolerant Control of Switched Nonlinear Systems (I)</i> , pp. 2829-2834.	
Du, Miao	McMaster Univ.
Mhaskar, Prashant	McMaster Univ.
10:20-10:40	ThA14.4
<i>Dynamics and Control of Energy Integrated Distillation Column Networks (I)</i> , pp. 2835-2840.	
Jogwar, Sujit S.	Univ. of Minnesota
Daoutidis, Prodromos	Univ. of Minnesota
10:40-11:00	ThA14.5
<i>Quasi-Decentralized Networked Process Control Using an Adaptive Communication Policy (I)</i> , pp. 2841-2846.	
Sun, Yulei	Univ. of California, Davis
El-Farra, Nael H.	Univ. of California, Davis
11:00-11:20	ThA14.6
<i>Monitoring and Handling of Actuator Faults in a Distributed Model Predictive Control System (I)</i> , pp. 2847-2854.	
Chilin, David	Univ. of California, Los Angeles
Liu, Jinfeng	Univ. of California, Los Angeles
Muñoz de la Peña, David	Univ. de Sevilla
Christofides, Panagiotis D.	Univ. of California at Los Angeles
Davis, James F.	UCLA

ThA15 Grand Ballroom VII

Spacecraft Control I (Regular Session)

Chair: Vedula, Prakash	Univ. of Oklahoma
Co-Chair: Hall, Jason	US Navy
09:20-09:40	ThA15.1
<i>A Direct Quadrature Based Nonlinear Filtering with Extended Kalman Filter Update for Orbit Determination</i> , pp. 2855-2860.	
Yoon, Jangho	Univ. of Oklahoma
Xu, Yunjun	Univ. of Central Florida
Vedula, Prakash	Univ. of Oklahoma
09:40-10:00	ThA15.2
<i>Attitude Feedback Tracking with Optimal Attitude State Estimation</i> , pp. 2861-2866.	
Nordkvist, Nikolaj	Univ. of Hawaii at Manoa
Sanyal, Amit	Univ. of Hawaii at Manoa
10:00-10:20	ThA15.3
<i>Quaternion Feedback Regulator for Large Angle Maneuvers of Underactuated Spacecraft</i> , pp. 2867-2872.	
Hall, Jason	US Navy
Romano, Marcello	Naval Postgraduate School
Cristi, Roberto	Naval Postgraduate School
10:20-10:40	ThA15.4
<i>Sparse Gauss-Hermite Quadrature Filter for Spacecraft Attitude Estimation</i> , pp. 2873-2878.	
Jia, Bin	Mississippi State Univ.
Xin, Ming	Mississippi State Univ.
Cheng, Yang	Mississippi State Univ.
10:40-11:00	ThA15.5
<i>Slewing and Vibration Control of a Nonlinear Flexible Spacecraft</i> , pp. 2879-2884.	
Malekzadeh, Maryam	amirkabir
Naghash, Abolghasem	amirkabir Univ.
Talebi, H.A.	Amirkabir Univ.
11:00-11:20	ThA15.6
<i>Distributed Finite-Time Containment Control for Multiple Lagrangian Systems</i> , pp. 2885-2890.	
Meng, Ziyang	Tsinghua Univ.
Ren, Wei	Utah State Univ.
You, Zheng	Tsinghua Univ.

ThA16 Grand Ballroom VIII

Mobile Sensor Networks (Regular Session)

Chair: Du, Liang	Georgia Inst. of Tech.
Co-Chair: Zhang, Fumin	Georgia Inst. of Tech.
09:20-09:40	ThA16.1
<i>Coverage Control in an Isotropic Gaussian Mixture Environment</i> , pp. 2891-2896.	
Du, Liang	Georgia Inst. of Tech.
Liu, Wei	Purdue Univ.
09:40-10:00	ThA16.2
<i>Stochastic Adaptive Sampling for Mobile Sensor Networks Using Kernel Regression</i> , pp. 2897-2902.	
Xu, Yunfei	Michigan State Univ.

Choi, Jongeun	Michigan State Univ.
10:00-10:20	ThA16.3
<i>Decentralized Control of Mobile Sensor Networks for Triangular Blanket Coverage</i> , pp. 2903-2908.	
Cheng, Teddy M.	Univ. of New South Wales
Savkin, Andrey	Univ. of New South Wales
10:20-10:40	ThA16.4
<i>Curvature Based Cooperative Exploration of Three Dimensional Scalar Fields</i> , pp. 2909-2914.	
Wencen, Wu	Georgia Inst. of Tech.
Zhang, Fumin	Georgia Inst. of Tech.
10:40-11:00	ThA16.5
<i>Dynamic Plume Tracking Using Mobile Sensors</i> , pp. 2915-2920.	
Sahyoun, Samir	Univ. of Tennessee
Djouadi, Seddik, M.	Univ. of Tennessee
Qi, Hairong	Univ. of Tennessee
11:00-11:20	ThA16.6
<i>Optimal Target Tracking Strategy with Controlled Node Mobility in Mobile Sensor Networks</i> , pp. 2921-2928.	
Mahboobi Baghdad Abad, Hamid	Concordia Univ.
Momeni, Ahmadreza	Concordia Univ.
Aghdam, Amir G.	Concordia Univ.
Sayrafian-Pour, Kamran	National Inst. of Standard & Tech.
Marbukh, Vladimir	National Inst. of Standards and Tech.

ThA17 Grand Ballroom IX
Linear Identification (Regular Session)

Chair: Akcay, Huseyin	Anadolu Univ.
Co-Chair: Mohan, Karthik	Univ. of Washington
09:20-09:40	ThA17.1
<i>Input Richness and Zero Buffering in Time-Domain Identification</i> , pp. 2929-2934.	
Holzel, Matthew	Univ. of Michigan
Ali, Asad	Univ. of Michigan
Bernstein, Dennis S.	Univ. of Michigan
09:40-10:00	ThA17.2
<i>Rational Interpolation from Phase Data by Subspace Methods</i> , pp. 2935-2940.	
Akcay, Huseyin	Anadolu Univ.
10:00-10:20	ThA17.3
<i>Subspace Identification of Combined Deterministic-Stochastic Systems by LQ Decomposition</i> , pp. 2941-2946.	
Katayama, Tohru	Doshisha Univ.
10:20-10:40	ThA17.4
<i>System Identification of Spatiotemporally Invariant Systems</i> , pp. 2947-2952.	
Sarwar, Azeem	Univ. of Illinois, Urbana Champaign
Voulgaris, Petros G.	Univ. of Illinois, Urbana-Champaign
Salapaka, Srinivasa	Univ. of Illinois
10:40-11:00	ThA17.5
<i>Reweighted Nuclear Norm Minimization with Application to System Identification</i> , pp. 2953-2959.	
Fazel, Maryam	Univ. of Washington
Mohan, Karthik	Univ. of Washington
11:00-11:20	ThA17.6
<i>Finite-Time Parameter Identification Via High-Order Sliding Mode Observer</i> , pp. 2960-2964.	
Davila Montoya, Jorge Angel	National Autonomous Univ. of Mexico (Univ. Au
Basin, Michael V.	Autonomous Univ. of Nuevo Leon
Fridman, Leonid M.	National Autonomous Univ.

ThA18 Grand Ballroom X
Fluid Systems I (Regular Session)

Chair: Ben Amara, Foued	Univ. of Toronto
Co-Chair: Wen, John T.	Rensselaer Pol. Inst.
09:20-09:40	ThA18.1
<i>When Fish Moonwalk</i> , pp. 2965-2970.	
Chambrion, Thomas	Univ. of Nancy
Munnier, Alexandre	The Univ. of British Columbia
09:40-10:00	ThA18.2
<i>Stability Analysis of Fluid Flows Using Sum-Of-Squares</i> , pp. 2971-2976.	
Goulart, Paul J.	Imperial Coll. London
Chernyshenko, Sergei	Imperial Coll. London
10:00-10:20	ThA18.3
<i>Magnetic Fluid Deformable Mirror Shape Control with a Multivariable PID Controller</i> , pp. 2977-2982.	
Wu, Zhizheng	Shanghai Univ.
Iqbal, Azhar	Univ. of Toronto
Ben Amara, Foued	Univ. of Toronto

10:20-10:40		ThA18.4
<i>Flood Control of Rivers with Model Predictive Control – Proof of Concept Based on the River Demer in Belgium –</i> , pp. 2983-2988.		
Breckpot, Maarten		Katholieke Univ. Leuven
Barjas Blanco, Toni		Katholieke Univ. Leuven
De Moor, Bart L.R.		Katholieke Univ. Leuven
10:40-11:00		ThA18.5
<i>Low-Order Nonlinear Models for Active Flow Control of a Low L/D Inlet Duct</i> , pp. 2989-2994.		
Ge, Xiaoqing		Rensselaer Pol. Inst.
Gressick, William		Barron Associates Inc.
Wen, John T.		Rensselaer Pol. Inst.
Sahni, Onkar		Rensselaer Pol. Inst.
Jansen, Kenneth E.		Univ. of Colorado at Boulder
11:00-11:20		ThA18.6
<i>Model-Based Control of Slugging Flow: An Experimental Case Study</i> , pp. 2995-3002.		
Di Meglio, Florent		MINES ParisTech
Kaasa, Glenn-Ole		Statoil ASA
Petit, Nicolas		MINES ParisTech
Alstad, Vidar		Statoil ASA
<hr/>		
ThA19		Dover A
Diesel Engine and Emission Control (Invited Session)		
Chair: Wang, Junmin		Ohio State Univ.
Co-Chair: Karnik, Amey		Ford Motor Company
Organizer: Mohammadpour, Javad		Univ. of Houston
Organizer: Wang, Junmin		Ohio State Univ.
Organizer: Karnik, Amey		Ford Motor Company
Organizer: Onori, Simona		Ohio State Univ.
Organizer: Marano, Vincenzo		The Ohio State Univ.
09:20-09:40		ThA19.1
<i>Staircase Ammonia Coverage Ratio Profile Control for Diesel Engine Two-Cell Selective Catalytic Reduction Systems (I)</i> , pp. 3003-3008.		
Hsieh, Ming Feng		The Ohio State Univ. Center for Automotive Res.
Wang, Junmin		Ohio State Univ.
09:40-10:00		ThA19.2
<i>Dynamic Exhaust Oxygen Based Biodiesel Blend Estimation with an Extended Kalman Filter (I)</i> , pp. 3009-3014.		
Snyder, David		Purdue Univ.
Adi, Gayatri		Purdue Univ.
Bunce, Michael		Purdue Univ.
Hall, Carrie		Purdue Univ.
Shaver, Gregory M.		Purdue Univ.
10:00-10:20		ThA19.3
<i>Dynamic Mapping of Diesel Engine through System Identification (I)</i> , pp. 3015-3020.		
Karlsson, Maria		Lund Univ.
Ekholm, Kent		Lund Univ.
Strandh, Petter		Lund Univ.
Johansson, Rolf		Lund Univ.
Tunestål, Per		Lund Univ. Faculty of Engineering
10:20-10:40		ThA19.4
<i>Biodiesel Blend Estimation Based on Fuel Consumption and Engine Power (I)</i> , pp. 3021-3026.		
Mirheidari, Seyedrooholah		Univ. of Houston
Mohammadpour, Javad		Univ. of Houston
Grigoriadis, Karolos M.		Univ. of Houston
Franchek, Matthew A.		Univ. of Houston
10:40-11:00		ThA19.5
<i>An Adaptive Control Strategy for Urea-SCR Aftertreatment System (I)</i> , pp. 3027-3032.		
Meisami-Azad, Mona		Univ. of Houston
Mohammadpour, Javad		Univ. of Houston
Grigoriadis, Karolos M.		Univ. of Houston
Harold, Michael		Univ. of Houston
11:00-11:20		ThA19.6
<i>An Extended Kalman Filter for NOx Sensor Ammonia Cross-Sensitivity Elimination in Selective Catalytic Reduction Applications</i> , pp. 3033-3038.		
Hsieh, Ming Feng		The Ohio State Univ. Center for Automotive Res.
Wang, Junmin		Ohio State Univ.

ThA20		Dover B
Multivehicle Trajectory Optimization (Invited Session)		
Chair: Le Ny, Jerome		Univ. of Pennsylvania
Co-Chair: Pappas, George J.		Univ. of Pennsylvania
Organizer: Le Ny, Jerome		Univ. of Pennsylvania
Organizer: Pappas, George J.		Univ. of Pennsylvania

09:20-09:40		ThA20.1
<i>On the Transfer Time Complexity of Cooperative Vehicle Routing (I)</i> , pp. 3039-3044.		
Spieser, Kevin	Massachusetts Inst. of Tech.	
Dimarogonas, Dimos V.	Massachusetts Inst. of Tech.	
Frazzoli, Emilio	Massachusetts Inst. of Tech.	
09:40-10:00		ThA20.2
<i>Hamilton-Jacobi Formulation for Reach-Avoid Problems with an Application to Air Traffic Management (I)</i> , pp. 3045-3050.		
Margellos, Kostas	ETH Zurich	
Lygeros, John	ETH Zurich	
10:00-10:20		ThA20.3
<i>Collision Avoidance and Trajectory Tracking Control Based on Approximations of the Maximum Function (I)</i> , pp. 3051-3056.		
Mejia, Juan	Univ. of Illinois	
Srivastava, Kunal	Univ. of Illinois, Urbana-Champaign	
Stipanovic, Dusan M.	Univ. of Illinois, Urbana-Champaign	
10:20-10:40		ThA20.4
<i>Decentralized Task Allocation for Heterogeneous Teams with Cooperation Constraints (I)</i> , pp. 3057-3062.		
Choi, Han-Lim	MIT	
Whitten, Andrew K.	MIT	
How, Jonathan P.	MIT	
10:40-11:00		ThA20.5
<i>Determining Bounds on Controller Workload Rates at an Intersection (I)</i> , pp. 3063-3068.		
Vela, Adan	Georgia Inst. of Tech.	
Salaün, Erwan	Georgia Inst. of Tech.	
Gariel, Maxime	Georgia Inst. of Tech.	
Feron, Eric	Georgia Tech.	
Clarke, John-Paul	Georgia Tech.	
Singhose, William	Georgia Inst. of Tech.	
11:00-11:20		ThA20.6
<i>Geometric Programming and Mechanism Design for Air Traffic Conflict Resolution (I)</i> , pp. 3069-3074.		
Le Ny, Jerome	Univ. of Pennsylvania	
Pappas, George J.	Univ. of Pennsylvania	

ThA21		Dover C
Linear Parameter Varying Systems (Regular Session)		
Chair: Sato, Masayuki	Japan Aerospace Exploration Agency	
Co-Chair: Lovera, Marco	Pol. di Milano	
09:20-09:40		ThA21.1
<i>Robust Gain-Scheduled Control</i> , pp. 3075-3081.		
Hencey, Brandon	Cornell Univ.	
Alleyne, Andrew G.	Univ. of Illinois, Urbana-Champaign	
09:40-10:00		ThA21.2
<i>Frequency Domain Model Reduction Method for Parameter-Dependent Systems</i> , pp. 3082-3087.		
Sootla, Aivar	Lund Univ.	
Sou, Kin Cheong	Lund Univ.	
10:00-10:20		ThA21.3
<i>Gain-Scheduled H_{∞} Filters Using Inexactly Measured Scheduling Parameters</i> , pp. 3088-3093.		
Sato, Masayuki	Japan Aerospace Exploration Agency	
10:20-10:40		ThA21.4
<i>Gain-Scheduled State-Feedback Controllers Using Inexactly Measured Scheduling Parameters: H_2 and H_{∞} Problems</i> , pp. 3094-3099.		
Sato, Masayuki	Japan Aerospace Exploration Agency	
Ebihara, Yoshio	Kyoto Univ.	
Peaucelle, Dimitri	LAAS-CNRS, Univ. de Toulouse	
10:40-11:00		ThA21.5
<i>Closed-Loop Identification of LPV Models Using Cubic Splines with Application to an Arm-Driven Inverted Pendulum</i> , pp. 3100-3105.		
Boonto, Sudchai	Hamburg Univ. of Tech.	
Werner, Herbert	Hamburg Univ. of Tech.	
11:00-11:20		ThA21.6
<i>Linear Parametrically Varying MPC for Combined Quality of Service and Energy Management in Web Service Systems</i> , pp. 3106-3111.		
Poussot-Vassal, Charles	ONERA	
Tanelli, Mara	Pol. di Milano	
Lovera, Marco	Pol. di Milano	

ThA22		Laurel D
Uncertainty Characterization and Management in Dynamical Systems (Invited Session)		
Chair: Singla, Puneet	Univ. at Buffalo	
Co-Chair: Bhattacharya, Raktim	Texas A&M	
Organizer: Singla, Puneet	Univ. at Buffalo	
Organizer: Bhattacharya, Raktim	Texas A&M	

09:20-09:40		ThA22.1
<i>Uncertainty Propagation for Efficient Model-Based Control Solutions</i> , pp. 3112-3117.		
Chen, Yingying(Sophia)		Texas Tech. Univ.
Hoo, Karlene		Texas Tech. Univ.
09:40-10:00		ThA22.2
<i>State Uncertainty Propagation in the Presence of Parametric Uncertainty and Additive White Noise (I)</i> , pp. 3118-3123.		
Konda, Umamaheswara		Univ. at Buffalo
Singla, Puneet		Univ. at Buffalo
Singh, Tarunraj	State Univ. of New York at Buffalo	Univ. at Buffalo
Scott, Peter		Univ. at Buffalo
10:00-10:20		ThA22.3
<i>Stochastic Hybrid Systems with Renewal Transitions (I)</i> , pp. 3124-3129.		
Antunes, Duarte		Inst. Superior Tecnico, Lisbon
Hespanha, Joao P.		Univ. of California, Santa Barbara
Silvestre, Carlos		Inst. Superior Tecnico
10:20-10:40		ThA22.4
<i>An Integrated Approach to Occupancy Modeling and Estimation in Commercial Buildings (I)</i> , pp. 3130-3135.		
Liao, Chenda		Univ. of Florida
Barooah, Prabir		Univ. of Florida
10:40-11:00		ThA22.5
<i>A Nonlinear Filter Based on Fokker-Planck Equation (I)</i> , pp. 3136-3141.		
Kumar, Mrinal		Texas A&M Univ.
Chakravorty, Suman		Texas A&M Univ.
11:00-11:20		ThA22.6
<i>Nonlinear Estimation with Polynomial Chaos and Higher Order Moment Updates (I)</i> , pp. 3142-3147.		
Dutta, Parikshit		Texas A&M Univ.
Bhattacharya, Raktim		Texas A&M

ThB01		Harborside Ballroom A
Distributed Model Predictive Control (Regular Session)		
Chair: Farina, Marcello		Pol. di Milano
Co-Chair: Savkovic, Borislav		The Univ. of New South Wales
13:40-14:00		ThB01.1
<i>Sequential and Iterative Architectures for Distributed Model Predictive Control of Nonlinear Process Systems. Part I: Theory</i> , pp. 3148-3155.		
Liu, Jinfeng		Univ. of California, Los Angeles
Chen, Xianzhong		Univ. of California, Los Angeles
Muñoz de la Peña, David		Univ. de Sevilla
Christofides, Panagiotis D.		Univ. of California at Los Angeles
14:00-14:20		ThB01.2
<i>Sequential and Iterative Architectures for Distributed Model Predictive Control of Nonlinear Process Systems. Part II: Application to a Catalytic Alkylation of Benzene Process</i> , pp. 3156-3161.		
Liu, Jinfeng		Univ. of California, Los Angeles
Chen, Xianzhong		Univ. of California, Los Angeles
Muñoz de la Peña, David		Univ. de Sevilla
Christofides, Panagiotis D.		Univ. of California at Los Angeles
14:20-14:40		ThB01.3
<i>Time-Variant Robust Model Predictive Control under Limited Capacity Communication Constraints</i> , pp. 3162-3167.		
Savkovic, Borislav		The Univ. of New South Wales
14:40-15:00		ThB01.4
<i>Negotiation and Learning in Distributed MPC of Large Scale Systems</i> , pp. 3168-3173.		
Javalera Rincón, Valeria		Univ. Pol. de Cataluña (UPC)
Morcego, Bernardo		Univ. Pol. de Catalunya
Puig, Vicenc		Univ. Pol. de Catalunya
15:00-15:20		ThB01.5
<i>Distributed Model Predictive Control for Building Temperature Regulation</i> , pp. 3174-3179.		
Moro,an, Petru-Daniel		SUPELEC
Bourdais, Romain		SUPELEC
Dumur, Didier		Ec. Superieure d'Electricite
Buisson, Jean		Supélec
15:20-15:40		ThB01.6
<i>State Estimation for Large-Scale Partitioned Systems: A Moving Horizon Approach (I)</i> , pp. 3180-3185.		
Farina, Marcello		Pol. di Milano
Ferrari-Trecate, Giancarlo		Univ. degli Studi di Pavia
Scattolini, Riccardo		Pol. di Milano

ThB02		Harborside Ballroom B
Agent-Based Systems I (Regular Session)		
Chair: Freeman, Randy		Northwestern Univ.

Co-Chair: Tonetti, Stefania	Pol. di Milano
13:40-14:00	ThB02.1
<i>Collision-Free Motion Coordination of Unicycle Multi-Agent Systems</i> , pp. 3186-3191.	
Kostic, Dragan	Tech. Univ. Eindhoven
Adinandra, Sisdarmanto	Eindhoven Univ. of Tech.
Caarls, Jurjen	Tech. Univ. of Eindhoven
Nijmeijer, Hendrik	Eindhoven Univ. of Tech.
14:00-14:20	ThB02.2
<i>A Hyperparameter-Based Approach for Consensus under Uncertainties</i> , pp. 3192-3197.	
Fraser, Cameron Scott Reidlinger	MIT
Bertucelli, Luca F.	Massachusetts Inst. of Tech.
Choi, Han-Lim	MIT
How, Jonathan P.	MIT
14:20-14:40	ThB02.3
<i>A Complete Characterization of a Class of Robust Linear Average Consensus Protocols</i> , pp. 3198-3203.	
Freeman, Randy	Northwestern Univ.
Nelson, Thomas	Northwestern Univ.
Lynch, Kevin M.	Northwestern Univ.
14:40-15:00	ThB02.4
<i>An Investigation of Guarding a Territory Problem in a Grid World</i> , pp. 3204-3210.	
Lu, Xiaosong	Carleton Univ.
Schwartz, Howard M.	Carleton Univ.
15:00-15:20	ThB02.5
<i>Optimal Trajectories of Mobile Remote Sensors for Parameter Estimation in Distributed Cyber-Physical Systems</i> , pp. 3211-3216.	
Tricaud, Christophe	Utah State Univ.
Chen, YangQuan	Utah State Univ.
15:20-15:40	ThB02.6
<i>Limits on the Network Sensitivity Function for Homogeneous Multi-Agent Systems on a Graph</i> , pp. 3217-3222.	
Tonetti, Stefania	Pol. di Milano
Murray, Richard M.	California Inst. of Tech.

ThB03 Harborside Ballroom D

Adaptive Control V (Regular Session)

Chair: Araujo, Aldayr Dantas de	Federal Univ. of Rio Grande do Norte
Co-Chair: Tao, Gang	Univ. of Virginia
13:40-14:00	ThB03.1
<i>Robust Asymptotic Tracking of a Class of Nonlinear Systems Using an Adaptive Critic Based Controller</i> , pp. 3223-3228.	
Bhasin, Shubhendu	Univ. of Florida
Sharma, Nitin	Univ. of Florida
Patre, Parag	NASA Langley Res. Center
Dixon, Warren E.	Univ. of Florida
14:00-14:20	ThB03.2
<i>Output Feedback MIMO MRAC Schemes with Sensor Uncertainty Compensation</i> , pp. 3229-3234.	
Li, Shanshan	Univ. of Virginia
Tao, Gang	Univ. of Virginia
14:20-14:40	ThB03.3
<i>Indirect Adaptive Control of Spatially Invariant Systems</i> , pp. 3235-3240.	
Sarwar, Azeem	Univ. of Illinois, Urbana Champaign
Voulgaris, Petros G.	Univ. of Illinois, Urbana-Champaign
Salapaka, Srinivasa	Univ. of Illinois
14:40-15:00	ThB03.4
<i>Variable Structure Adaptive Backstepping Controller for Plants with Arbitrary Relative Degree Based on Modular Design</i> , pp. 3241-3246.	
Queiroz, Kurios Iuri	Inst. Federal de Educaço, Cincia e Tecnologia do Rio Grand
Araujo, Aldayr Dantas de	Federal Univ. of Rio Grande do Norte
Fernandes, Marcus Vinicius Arajo	Inst. Federal de Educaço, Cincia e Tecnologia do Rio Grand
Dias, Samaherni	Federal Univ. of Rio Grande do Norte
Oliveira, Josenalde, Barbosa	Agricultural School of Jundii
15:00-15:20	ThB03.5
<i>Robustness of L1 Adaptive Controllers in the Gap Metric</i> , pp. 3247-3252.	
Li, Dapeng	Unniversity of Illinois
Hovakimyan, Naira	Univ. of Illinois, Urbana-Champaign
Georgiou, Tryphon T.	Univ. of Minnesota

ThB04 Harborside Ballroom E

Switched Systems III (Regular Session)

Chair: Colaneri, Patrizio	Pol. di Milano
Co-Chair: Brown, Lyndon J.	Univ. of Western Ontario
13:40-14:00	ThB04.1
<i>A Multiple Lyapunov Functions Approach for Stability of Switched Systems</i> , pp. 3253-3256.	

Lu, Jin	The Univ. of Western Ontario
Brown, Lyndon J.	Univ. of Western Ontario
14:00-14:20	ThB04.2
<i>Stability Analysis of a Proportional with Intermittent Integral Control System</i> , pp. 3257-3262.	
Lu, Jin	The Univ. of Western Ontario
Brown, Lyndon J.	Univ. of Western Ontario
14:20-14:40	ThB04.3
<i>Frequency Identification of Wiener Systems Containing Nonparametric Memory Switch Operator</i> , pp. 3263-3268.	
Rochdi, Youssef	LSET
Giri, Fouad	Univ. de Caen
Chaoui, F.Z.	ENSET
Brouri, Adil	EMI
14:40-15:00	ThB04.4
<i>Robust State Feedback Stabilization of Uncertain Switched Linear Systems Subject to Actuator Saturation</i> , pp. 3269-3274.	
Zhang, Xinquan	Northeastern Univ.
Zhao, Jun	The Australian National Univ.
Dimirovski, Georgi M	Dogus Univ. of Istanbul
Ma, Ruicheng	Northeastern Univ.
15:00-15:20	ThB04.5
<i>Stabilization of Continuous-Time Switched Linear Positive Systems</i> , pp. 3275-3280.	
Zappavigna, Annalisa	Pol. di Milano
Colaneri, Patrizio	Pol. di Milano
Geromel, Jose C.	UNICAMP
Middleton, Richard H.	National Univ. of Ireland Maynooth
15:20-15:40	ThB04.6
<i>Stabilization of Switched Linear Systems with Wiener Process Disturbances</i> , pp. 3281-3286.	
Raouf, Jamila	McGill Univ.
Michalska, Hannah H.	McGill Univ.

ThB05 Essex A

Power Systems IV (Regular Session)

Chair: Giri, Fouad	Univ. de Caen
Co-Chair: Li, Perry Y.	Univ. of Minnesota
13:40-14:00	ThB05.1
<i>Nonlinear Adaptive Output Feedback Control of Series Resonant Dc-Dc Converters</i> , pp. 3287-3292.	
EL maguiri, Ouadia	EMI,MOROCCO
Giri, Fouad	Univ. de Caen
El Fadil, Hassan	EMI
Chaoui, F.Z.	ENSET
Dugard, Luc	CNRS-INPG
14:00-14:20	ThB05.2
<i>Decentralized Control of a Line Interactive Uninterruptible Power Supply (UPS)</i> , pp. 3293-3298.	
Iyer, Shivkumar	Indian Inst. of Tech. Bombay
Belur, Madhu N.	Indian Inst. of Tech. Bombay
Chandorkar, Mukul	Indian Inst. of Tech. Bombay
14:20-14:40	ThB05.3
<i>Piecewise Affine Modeling and Control of a Step-Up DC-DC Converter</i> , pp. 3299-3304.	
Almer, Stefan	ETH Zuerich
Mariethoz, Sebastien	ETH Zurich
Morari, Manfred	ETH Zurich
14:40-15:00	ThB05.4
<i>Integrated Control and Circuit Design; an Optimization Approach Applied to the Buck Converter</i> , pp. 3305-3310.	
Mariethoz, Sebastien	ETH Zurich
Almer, Stefan	ETH Zuerich
Morari, Manfred	ETH Zurich
15:00-15:20	ThB05.5
<i>Stabilization of the Power Angle of Synchronous Generator Via Robust Second Order Sliding Mode Control</i> , pp. 3311-3316.	
Benayache, Rabia	Univ. de Picardie Jules Verne
Chrfi Alaoui, Larbi	UPJV - IUT de l'Aisne
Bussy, Pascal	UPJV
15:20-15:40	ThB05.6
<i>Independent Metering of Pneumatic Actuator for Passive Human Power Amplification</i> , pp. 3317-3322.	
Durbha, Venkat	Univ. of Minnesota, Minneapolis
Li, Perry Y.	Univ. of Minnesota

ThB06 Essex B

Distributed Parameter Systems II (Regular Session)

Chair: Jovanovic, Mihailo	Univ. of Minnesota
Co-Chair: Werner, Herbert	Hamburg Univ. of Tech.

13:40-14:00		ThB06.1
<i>Modeling Investigation for Thermoacoustic Oscillation Control</i> , pp. 3323-3328.		
Yuan, Xiaochuan		Univ. of Cambridge
Glover, Keith		Univ. of Cambridge
Dowling, Ann P.		Univ. of Cambridge
14:00-14:20		ThB06.2
<i>Preventing Transition to Turbulence Using Streamwise Traveling Waves: Theoretical Analysis</i> , pp. 3329-3334.		
Moarref, Rashad		Univ. of Minnesota
Jovanovic, Mihailo		Univ. of Minnesota
14:20-14:40		ThB06.3
<i>Preventing Transition to Turbulence Using Streamwise Traveling Waves: Direct Numerical Simulations</i> , pp. 3335-3340.		
Lieu, Binh K.		Univ. of Minnesota
Moarref, Rashad		Univ. of Minnesota
Jovanovic, Mihailo		Univ. of Minnesota
14:40-15:00		ThB06.4
<i>Sliding Mode Dirichlet Boundary Stabilization of Uncertain Parabolic PDE Systems with Spatially Varying Coefficients</i> , pp. 3341-3346.		
Cheng, Meng-Bi		National Chung Hsing Univ.
Radisavljevic-Gajic, Verica		California State Univ. Los Angeles
Tsai, Tsung-Lin		National Chung-Hsing Univ.
Su, Wu-Chung		National Chung-Hsing Univ.
15:00-15:20		ThB06.5
<i>Mixing Enhancement in 3D MHD Channel Flow by Boundary Electrical Potential Actuation</i> , pp. 3347-3352.		
Luo, Lixiang		Lehigh Univ.
Schuster, Eugenio		Lehigh Univ.

ThB07 Essex C

Discrete Event Systems II (Regular Session)

Chair: Ricker, S. Laurie		Mount Allison Univ.
Co-Chair: Piroddi, Luigi		Pol. di Milano
13:40-14:00		ThB07.1
<i>Polynomial Time Verification of Decentralized Diagnosability of Discrete Event Systems</i> , pp. 3353-3358.		
Moreira, Marcos Vicente		Univ. Fed. Rio De Janeiro
Jesus, Thiago Cerqueira		Federal Univ. of Rio de Janeiro
Basilio, Joao Carlos		Univ. Federal de Rio de Janeiro
14:00-14:20		ThB07.2
<i>Decentralized Modular Control of Concurrent Fuzzy Discrete Event Systems</i> , pp. 3359-3364.		
Jayasiri, Awantha		Memorial Univ. of Newfoundland
Mann, George K. I.		Memorial Univ. of Newfoundland
Gosine, Raymond G.		Memorial Univ. of Newfoundland
14:20-14:40		ThB07.3
<i>A Reachability Graph Partitioning Technique for the Analysis of Deadlock Prevention Methods in Bounded Petri Nets</i> , pp. 3365-3370.		
Fumagalli, Ivano		Pol. di Milano
Piroddi, Luigi		Pol. di Milano
Cordone, Roberto		Univ. degli Studi di Milano
14:40-15:00		ThB07.4
<i>Decentralized Diagnosis of Petri Nets</i> , pp. 3371-3377.		
Cabasino, Maria Paola		Univ. of Cagliari
Giua, Alessandro		Univ. di Cagliari
Paoli, Andrea		Univ. of Bologna
Seatzu, Carla		Univ. of Cagliari
15:00-15:20		ThB07.5
<i>Concurrent Program Synthesis Based on Supervisory Control</i> , pp. 3378-3383.		
lordache, Marian		LeTourneau Univ.
Antsaklis, Panos J.		Univ. of Notre Dame
15:20-15:40		ThB07.6
<i>Nash Equilibrium for Communication Protocols in Decentralized Discrete-Event Systems</i> , pp. 3384-3389.		
Sadid, Md. Waselul Haque		Concordia Univ.
Ricker, S. Laurie		Mount Allison Univ.
Hashtrudi Zad, Shahin		Concordia Univ.

ThB08 Laurel A

Mems (Tutorial Session)

Chair: Berg, Jordan M.		Texas Tech. Univ.
Co-Chair: Wu, Neng Eva		Binghamton Univ.
13:40-14:20		ThB08.1
<i>A Literature Review on Modeling and Control Design for Electrostatic Microactuators with Fringing and Squeezed Film Damping Effects (I)</i> , pp. 3390-3402.		
Vagia, Marialena		Univ. of Patras
Tzes, Anthony		Univ. of Patras

14:20-14:40		ThB08.2
<i>A Gyroscope Control System for Unknown Proof Mass and Interface Circuit Errors</i> , pp. 3403-3408.		
Chi, Chien-Yu		National Chiao Tung Univ.
Chen, Tsung-Lin		National Chiao Tung Univ.
14:40-15:00		ThB08.3
<i>Closed-Loop Voltage Control of a Parallel-Plate MEMS Electrostatic Actuator</i> , pp. 3409-3414.		
Dong, Lili		Cleveland State Univ.
Edwards, Jason		Cleveland State Univ.
15:00-15:20		ThB08.4
<i>Feasibility Study of a Low-Cost Feedback Damping Scheme for a Micro-Machined Capacitive Microphone</i> , pp. 3415-3422.		
Wu, Neng Eva		Binghamton Univ.
Miles, Ron		Binghamton Univ.
Huang, Jianzhuang		Binghamton Univ.
15:20-15:40		ThB08.5
<i>Least-Squares Parameter Estimation Algorithm for a Microelectrothermal Bridge Circuit</i> , pp. 3423-3428.		
Stojanovic, Nenad		Texas Tech. Univ.
Berg, Jordan M.		Texas Tech. Univ.
Maithripala, D. H. S.		Univ. of Peradeniya
Holtz, Mark		Texas Tech. Univ.

ThB09		Laurel B
Stability Analysis II (Regular Session)		
Chair: Hagen, Gregory		United Tech. Res. Center
Co-Chair: Sabau, Serban		Univ. of Maryland, Coll. Park
13:40-14:00		ThB09.1
<i>Passivity Based Trajectory Tracking Control with Predefined Local Linear Error Dynamics</i> , pp. 3429-3434.		
Kotyczka, Paul		Tech. Univ. Muenchen
Volf, Alexander		Tech. Univ. Muenchen
Lohmann, Boris		Tech. Univ. München
14:00-14:20		ThB09.2
<i>Isomorphism-Based Robust Right Coprime Factorization for Nonlinear Feedback Control Systems Design</i> , pp. 3435-3439.		
Bu, Ni		Okayama Univ.
Deng, Mingcong		Okayama Univ.
Yanou, Akira		Kinki Univ.
14:20-14:40		ThB09.3
<i>Factorizations and Partial Contraction of Nonlinear Systems</i> , pp. 3440-3445.		
Belabbas, Mohamed Ali		Harvard
Slotine, Jean-Jacques E.		Massachusetts Inst. of Tech.
14:40-15:00		ThB09.4
<i>On the Stability of Sliding Mode Control for a Class of Underactuated Nonlinear Systems</i> , pp. 3446-3451.		
Nersesov, Sergey G.		Villanova Univ.
Ashrafiun, Hashem		Villanova Univ.
Ghorbanian, Parham		Villanova Univ.
15:00-15:20		ThB09.5
<i>State-Space Formulas for the Classes of Omega-Stabilizing Controllers and Closed-Loop Transfer Matrices of a Singular System</i> , pp. 3452-3457.		
Oara, Cristian		Univ. Pol. Bucharest
Sabau, Serban		Univ. of Maryland, Coll. Park
15:20-15:40		ThB09.6
<i>Coupling of Stable Subsystems with Counterclockwise Input-Output Dynamics</i> , pp. 3458-3463.		
Cai, Chaohong		United Tech. Res. Center
Hagen, Gregory		United Tech. Res. Center

ThB10		Laurel C
Multidimensional Systems (Regular Session)		
Chair: Chen, Shyh-Feng		China Univ. of Science and Tech.
Co-Chair: Rogers, Eric		Univ. of Southampton
13:40-14:00		ThB10.1
<i>Consistent Identification of Two Dimensional Systems</i> , pp. 3464-3469.		
Ali, Mukhtar		Tech. Univ. Hamburg Harburg (TUHH)
Chughtai, Saualat Shuja		Hamburg Univ. of Tech.
Werner, Herbert		Hamburg Univ. of Tech.
14:00-14:20		ThB10.2
<i>Delay-Dependent Stability for 2-D Systems with Delays in the Roesser Model</i> , pp. 3470-3474.		
Chen, Shyh-Feng		China Univ. of Science and Tech.
14:20-14:40		ThB10.3
<i>Experimentally Verified 2D Systems Theory Based Robust Iterative Learning Control</i> , pp. 3475-3480.		
Hladowski, Lukasz		Univ. of Zielona Gora
Galkowski, Krzysztof		Univ. of Zielona Gora

Cai, Zhonglun	Univ. of Southampton
Rogers, Eric	Univ. of Southampton
Freeman, Christopher T.	Univ. of Southampton
Lewin, Paul L.	Univ. of Southampton
14:40-15:00	ThB10.4
<i>Stability for 2-D Linear Discrete Systems with Multiplicative Noise*</i> . Q[0]C[0]C[0]A^D	
Cui, Jia-Rui	Univ. of Science and Tech. Beijing
Hu, Guang-Da	Information Engineering School, Univ. gy Beijing
15:00-15:20	ThB10.5
<i>Symbolic Dynamics of Wavelet Images for Pattern Identification</i> , pp. 3481-3486.	
Jin, Xin	The Pennsylvania State Univ.
Gupta, Shalabh	Pennsylvania State Univ.
Mukherjee, Kushal	Pennsylvania State Univ.
Ray, Asok	Pennsylvania State Univ.
15:20-15:40	ThB10.6
<i>Nonlinear Observer for Structure Estimation Using a Paracatadioptric Camera</i> , pp. 3487-3492.	
Dani, Ashwin	Univ. of Florida
Fischer, Nicholas	Univ. of Florida
Kan, Zhen	Univ. of Florida
Dixon, Warren E.	Univ. of Florida

ThB11 Grand Ballroom I
Control Applications II (Regular Session)

Chair: Oomen, Tom	Eindhoven Univ. of Tech.
Co-Chair: Tharayil, Marina	Xerox Corp.
13:40-14:00	ThB11.1
<i>Experimental Evaluation of Robust-Control-Relevance: A Confrontation with a Next-Generation Wafer Stage</i> , pp. 3493-3499.	
van Herpen, Robbert	Eindhoven Univ. of Tech.
Oomen, Tom	Eindhoven Univ. of Tech.
van de Wal, Marc	ASML
Bosgra, Okko H.	Eindhoven Univ. of Tech.
14:00-14:20	ThB11.2
<i>3DOF Closed Loop Sheet Alignment on Non-Holonomic Printer Differential Drive Registration Device Using Input-State Linearization</i> , pp. 3500-3505.	
Tharayil, Marina	Xerox Corp.
Elliot, Jack G.	Xerox
Mastellone, Silvia	Univ. of Illinois
14:20-14:40	ThB11.3
<i>Active Noise Control in a Duct Using Output Feedback Robust Control Techniques</i> , pp. 3506-3511.	
Yucelen, Tansel	Georgia Inst. of Tech.
Shekar Sadahalli, Arjun	Southern Illinois Univ.
Pourboghhrat, Farzad	Southern Illinois Univ.
14:40-15:00	ThB11.4
<i>Distributed Parameter Modeling and Control of Electromagnetic Molding Machine</i> , pp. 3512-3517.	
Ishizaki, Takayuki	Tokyo Inst. of Tech.
Kashima, Kenji	Tokyo Inst. of Tech.
Imura, Jun-ichi	Tokyo Inst. of Tech.
Kato, Atushi	Sumitomo Heavy Industries, Ltd
Morita, Hiroshi	Sumitomo Heavy Industries, Ltd
15:00-15:20	ThB11.5
<i>A Robust-Control-Relevant Model Validation Approach for Continuously Variable Transmission Control</i> , pp. 3518-3523.	
Oomen, Tom	Eindhoven Univ. of Tech.
van der Meulen, Stan	Eindhoven Univ. of Tech.
Bosgra, Okko H.	Eindhoven Univ. of Tech.
Steinbuch, Maarten	Eindhoven Univ. of Tech.
Elfring, Jos	Eindhoven Univ. of Tech.
15:20-15:40	ThB11.6
<i>Adaptive Robust Dynamic Surface Control of DC Torque Motors with True Parameter Estimates</i> , pp. 3524-3529.	
Li, Zhiping	School of Automation, Beijing Inst. of Technology, Beijing, Ch
Chen, Jie	Beijing Inst. of Tech.
Gan, Minggang	School of Automation, Beijing Inst. of Tech. Beijing,
Fang, Hao	Beijing Inst. of Tech.
Zhang, Guozhu	Beijing Inst. of Tech.

ThB12 Grand Ballroom II
Solar Energy (Regular Session)

Chair: Ydstie, B. Erik	Carnegie Mellon
Co-Chair: Seem, John E.	Johnson Controls Inc.
13:40-14:00	ThB12.1
<i>GA Modeling and ANFIS Control Design for a Solar Power Plant</i> , pp. 3530-3535.	

Shahmaleki, Pourya	Shiraz Univ.
Mahzoon, Mojtaba	Shiraz Univ.
14:00-14:20	ThB12.2
<i>Extremum Seeking Control Based Integration of MPPT and Degradation Detection for Photovoltaic Arrays</i> , pp. 3536-3541.	
Lei, Peng	Univ. of Wisconsin-Milwaukee
Li, Yaoyu	Univ. of Wisconsin-Milwaukee
Chen, Quan	Univ. of Wisconsin Milwaukee
Seem, John E.	Johnson Controls Inc.
14:20-14:40	ThB12.3
<i>Asymptotic Convergence through Lyapunov-Based Switching in Extremum Seeking with Application to Photovoltaic Systems</i> , pp. 3542-3548.	
Moura, Scott	Univ. of Michigan, Ann Arbor
Chang, Yiyao(Andy)	National Inst.
14:40-15:00	ThB12.4
<i>An Optimal Control Approach for Determination of the Heat Loss Coefficient in a Domestic Water Heating System</i> , pp. 3549-3554.	
Gil, Camilo	Univ. of Central Florida
Haralambous, Michael	Univ. of Central Florida
Qu, Zhihua	Univ. of Central Florida
Simaan, Marwan A.	Univ. of Central Florida
15:00-15:20	ThB12.5
<i>The Measurement Selection of Inventory Control</i> , pp. 3555-3560.	
Du, Juan	Carnegie Mellon Univ.
White, Christy M.	Carnegie Mellon Univ.
Ydstie, B. Erik	Carnegie Mellon
15:20-15:40	ThB12.6
<i>Backstepping PWM Control for Maximum Power Tracking in Photovoltaic Array Systems</i> , pp. 3561-3565.	
Iyasere, Erhun	Clemson Univ.
Dawson, Darren M.	Clemson Univ.
Tatlicioglu, Enver	Izmir Inst. of Tech.

ThB13 Grand Ballroom III

Biomedical Control I (Regular Session)	
Chair: Kothare, Mayuresh V.	Lehigh Univ.
Co-Chair: Topcu, Ufuk	California Inst. of Tech.
13:40-14:00	ThB13.1
<i>Baroreflex Modeling in the Genesis of Stress Reactivity Using Sigmoidal Characteristic</i> , pp. 3566-3571.	
Ataee, Pedram	Univ. of British Columbia
Dumont, Guy A.	Univ. of British Columbia
Boyce, W. Thomas	Univ. of British Columbia
14:00-14:20	ThB13.2
<i>Angioplasty Balloon Deployment Control</i> , pp. 3572-3573.	
Azarnoush, Hamed	McGill Univ.
Boulet, Benoit	McGill Univ.
14:20-14:40	ThB13.3
<i>Modeling and Control of an Implantable Rotary Blood Pump for Heart Failure Patients</i> , pp. 3574-3579.	
Alomari, Abdul-Hakeem H.	The Univ. of New South Wales (UNSW)
Savkin, Andrey	Univ. of New South Wales
Ayre, Peter J.	The Univ. of New South Wales (UNSW)
Lim, Einly	The Univ. of New South Wales (UNSW)
Lovell, Nigel H.	The Univ. of New South Wales (UNSW)
14:40-15:00	ThB13.4
<i>A Note on Human Weight Dynamics and Control Based on the Macronutrient and Energy Flux Balance</i> , pp. 3580-3585.	
Laila, Dina Shona	Kingston Univ. London
15:00-15:20	ThB13.5
<i>Optimal Parameter Estimation of the Izhikevich Single Neuron Model Using Experimental Inter-Spike Interval (ISI) Data</i> , pp. 3586-3591.	
Kumar, Gautam	Lehigh Univ.
Aggarwal, Vikram	Johns Hopkins Univ.
Thakor, Nitish	Johns Hopkins Univ.
Schieber, Marc H.	Univ. of Rochester Medical Center
Kothare, Mayuresh V.	Lehigh Univ.
15:20-15:40	ThB13.6
<i>Quantitative Nonlinear Analysis of Autocatalytic Networks with Applications to Glycolysis</i> , pp. 3592-3597.	
Buzi, Gentian	California Inst. of Tech.
Topcu, Ufuk	California Inst. of Tech.
Doyle, John C.	California Inst. of Tech.

ThB14 Grand Ballroom IV

Process Control I (Regular Session)	
Chair: Julius, Agung	Rensselaer Pol. Inst.

Co-Chair: Gambier, Adrian	Heidelberg Univ.
13:40-14:00	ThB14.1
<i>Active Sensor Configuration Validation for Refrigeration Systems</i> , pp. 3604-3610.	
Hovgaard, Tobias Gybel	Tech. Univ. of Denmark
Blanke, Mogens	Tech. Univ. of Denmark
Niemann, Henrik	Tech. Univ. of Denmark
Izadi-Zamanabadi, Roozbeh	Danfoss A/S
13:40-14:00	ThB14.1
<i>Entropy Based Control and Optimization of a Three-Phase Catalytic Slurry Intensified Continuous Chemical Reactor</i> , pp. 3598-3603.	
Bahroun, Sami	LAGEP Univ. Claude Bernard Lyon1
Jallut, Christian	LAGEP
Valentin, Claire	UCB Lyon 1 et CPE Lyon
Li, Shi	Lab. d'Automatique de Grenoble
De Panthou, Fabrice	SAS AET GROUP
14:20-14:40	ThB14.3
<i>Fault-Tolerant Control of a Small Reverse Osmosis Desalination Plant with Feed Water Bypass</i> , pp. 3611-3616.	
Gambier, Adrian	Heidelberg Univ.
Miksch, Tobias	Univ. of Heidelberg
Badreddin, Essam	Univ. of Heidelberg
14:40-15:00	ThB14.4
<i>Control Systems Challenges in Energy Efficient Portable UV Based Water Sterilizer</i> , pp. 3617-3622.	
Julius, Agung	Rensselaer Pol. Inst.
Sawyer, Shayla	Rensselaer Pol. Inst.
15:00-15:20	ThB14.5
<i>Robust Nonlinear Fault Detection Applied to Chemical Processes</i> , pp. 3623-3628.	
Castillo, Ivan	The Univ. of Texas at Austin
Edgar, Thomas F.	Univ. of Texas at Austin
Fernandez, Benito	The Univ. of Texas at Austin
15:20-15:40	ThB14.6
<i>Minimizing Energy Consumption in Reverse Osmosis Membrane Desalination Using Optimization-Based Control</i> , pp. 3629-3635.	
Christofides, Panagiotis D.	Univ. of California at Los Angeles

ThB15	Grand Ballroom VII
Spacecraft Control II (Regular Session)	
Chair: Mayhew, Christopher G.	Univ. of California, Santa Barbara
Co-Chair: Hayakawa, Tomohisa	Tokyo Inst. of Tech.
13:40-14:00	ThB15.1
<i>Orbital Formation Control of Multiple Spacecraft</i> , pp. 3636-3641.	
Le, Tin Duc	Tokyo Inst. of Tech.
Furusawa, Kazunori	Tokyo Inst. of Tech.
Hayakawa, Tomohisa	Tokyo Inst. of Tech.
14:00-14:20	ThB15.2
<i>Flatness-Based Guidance for Planetary Landing</i> , pp. 3642-3647.	
Desiderio, Delia	Pol. di Milano
Lovera, Marco	Pol. di Milano
14:20-14:40	ThB15.3
<i>Neural Network Robust Controllers Applied to Free-Floating Space Manipulators in Task Space</i> , pp. 3648-3653.	
Pazelli, Tatiana de F. P. A. T.	Univ. of São Paulo at São Carlos
Terra, Marco Henrique	Univ. of São Paulo at São Carlos
Siqueira, Adriano A G	Univ. of Sao Paulo
14:40-15:00	ThB15.4
<i>Modified Simple Adaptive Control for a Two-Link Space Robot</i> , pp. 3654-3659.	
Ulrich, Steve	Carleton Univ.
Sasiadek, Jurek Z	Carleton Univ.
15:00-15:20	ThB15.5
<i>Decentralized Consensus Based Control Methodology for Vehicle Formations in Air and Deep Space</i> , pp. 3660-3665.	
Stankovic, Milos S.	Royal Inst. of Tech.
Stipanovic, Dusan M.	Univ. of Illinois, Urbana-Champaign
Stankovic, Srdjan S.	Univ. of Belgrade
15:20-15:40	ThB15.6
<i>Robust Global Asymptotic Attitude Synchronization by Hybrid Control</i> , pp. 3666-3671.	
Mayhew, Christopher G.	Univ. of California, Santa Barbara
Sanfelice, Ricardo G.	Univ. of Arizona
Arcak, Murat	Univ. of California, Berkeley
Teel, Andrew R.	Univ. of California at Santa Barbara

ThB16	Grand Ballroom VIII
Stability and Stabilization of Networked Control Systems (Invited Session)	
Chair: Lazar, Mircea	Eindhoven Univ. of Tech.

Co-Chair: Heemels, Maurice Organizer: Lazar, Mircea Organizer: Kolmanovsky, Ilya V. Organizer: Heemels, Maurice	Eindhoven Univ. of Tech. Eindhoven Univ. of Tech. The Univ. of Michigan Eindhoven Univ. of Tech.
13:40-14:00 <i>Optimal Control Over Unreliable Networks with Uncertain Loss Rates (I)</i> , pp. 3672-3677. Koegel, Markus Blind, Rainer Allgower, Frank	ThB16.1 OVG Univ. Magdeburg Univ. of Stuttgart Univ. of Stuttgart ThB16.2
14:00-14:20 <i>A Framework for the Observer Design for Networked Control Systems (I)</i> , pp. 3678-3683. Postoyan, Romain Nesic, Dragan	The Univ. of Melbourne Univ. of Melbourne ThB16.3
14:20-14:40 <i>Stability Analysis of Stochastic Networked Control Systems (I)</i> , pp. 3684-3689. Donkers, Tijs Heemels, Maurice Bernardini, Daniele Bemporad, Alberto Shneer, Vsevolod	Eindhoven Univ. of Tech. Eindhoven Univ. of Tech. Univ. of Siena Univ. of Siena Eindhoven Univ. of Tech. ThB16.4
14:40-15:00 <i>Networked Control Systems under Cyber Attacks with Applications to Power Networks (I)</i> , pp. 3690-3696. Teixeira, André Sandberg, Henrik Johansson, Karl H.	KTH - Royal Inst. of Tech. Royal Inst. of Tech. (KTH) Royal Inst. of Tech. ThB16.5
15:00-15:20 <i>On Lyapunov Theory for Delay Difference Inclusions (I)</i> , pp. 3697-3703. Gielen, Rob Lazar, Mircea Kolmanovsky, Ilya V.	Eindhoven Univ. of Tech. Eindhoven Univ. of Tech. The Univ. of Michigan ThB16.6
15:20-15:40 <i>Rate Limited Reference Governor for Network Controlled Systems (I)</i> , pp. 3704-3709. Di Cairano, Stefano Kolmanovsky, Ilya V.	Ford Motor Company The Univ. of Michigan

ThB17	Grand Ballroom IX
Identification (Regular Session)	
Chair: Bernstein, Dennis S. Co-Chair: Spall, James C.	Univ. of Michigan Johns Hopkins Univ. ThB17.1
13:40-14:00 <i>Incorporating Term Selection into Nonlinear Block Structured System Identification</i> , pp. 3710-3715. Rasouli, Mohammad Westwick, David Rosehart, William	Univ. of Calgary Univ. of Calgary Schulich School of Engineering ThB17.2
14:00-14:20 <i>Symbolic Identification of Dynamical Systems: Theory and Experimental Validation (I)</i> , pp. 3716-3721. Chakraborty, Subhadeep Keller, Eric Ray, Asok Mayer, Jeffrey	Pennsylvania State Univ. Penn State Pennsylvania State Univ. Penn State Univ. ThB17.3
14:20-14:40 <i>Probabilistic Uncertainty Description for an ETFE Estimated Plant Using a Sequence of Multi-Sinusoidal Signals</i> , pp. 3722-3728. Steenis, Richard Rivera, Daniel E.	Arizona State Univ. Arizona State Univ. ThB17.4
14:40-15:00 <i>On the Accuracy of Least Squares Algorithms for Estimating Zeros</i> , pp. 3729-3734. Fledderjohn, Matthew Holzel, Matthew Morozov, Alexey Hoagg, Jesse B. Bernstein, Dennis S.	Univ. of Michigan Univ. of Michigan Univ. of Michigan Univ. of Michigan Univ. of Michigan ThB17.5
15:00-15:20 <i>A Comparison of Least Squares Algorithms for Estimating Markov Parameters</i> , pp. 3735-3740. Fledderjohn, Matthew Holzel, Matthew Palanhandalam-Madapusi, Harish Fuentes, Robert Bernstein, Dennis S.	Univ. of Michigan Univ. of Michigan Syracuse Univ. Raytheon Univ. of Michigan ThB17.6
15:20-15:40	ThB17.6

Robust Test Design for Reliability Estimation with Modeling Error When Combining Full System and Subsystem Tests, pp. 3741-3746.
 Maranzano, Coire Joseph
 Spall, James C.

Johns Hopkins Univ. Applied Physics Lab.
 Johns Hopkins Univ.

ThB18 Grand Ballroom X
Fluid Systems II (Regular Session)

Chair: Wang, Jin Auburn Univ.
 Co-Chair: Li, Yuping Univ. of Melbourne

13:40-14:00 ThB18.1

Offtake Feedforward Compensator Design for an Irrigation Channel with Distributed Control, pp. 3747-3752.
 Li, Yuping Delft Univ. of Tech. Netherlands
 De Schutter, Bart Delft Univ. of Tech.

14:00-14:20 ThB18.2

Parallel-Channel Flow Instabilities and Active Control Schemes in Two-Phase Microchannel Heat Exchanger Systems, pp. 3753-3758.
 Zhang, TieJun Rensselaer Pol. Inst.
 Wen, John T. Rensselaer Pol. Inst.
 Julius, Agung Rensselaer Pol. Inst.
 Bai, He Northwestern Univ.

14:20-14:40 ThB18.3

Boundary Actuation Structure of Linearized Two-Phase Flow, pp. 3759-3764.
 Djordjevic, Snezana Delft Univ. of Tech.
 Bosgra, Okko H. Eindhoven Univ. of Tech.
 Van den Hof, Paul M.J. Delft Univ. of Tech.
 Jeltsema, Dimitri Delft Univ. of Tech.

14:40-15:00 ThB18.4

Adaptive Observer for Kick Detection and Switched Control for Bottomhole Pressure Regulation and Kick Attenuation During Managed Pressure Drilling, pp. 3765-3770.
 Zhou, Jing International Res. Inst. of Stavanger
 Nygaard, Gerhard Int. Res. Inst. of Stavanger
 Godhavn, John-Morten StatoilHydro ASA
 Breyholtz, R̃yvind International Res. Inst. of Stavanger (IRIS)
 Vefring, Erlend H. RF - Rogaland Res.

15:00-15:20 ThB18.5

Empirical Hankel Norm Model Reduction with Application to a Prototype Nonlinear Convective Flow, pp. 3771-3776.
 Fernandez, Tasha Univ. of Tennessee
 Djouadi, Seddik, M. Univ. of Tennessee
 Foster, Jason Univ. of Tennessee

15:20-15:40 ThB18.6

Valve Stiction Modeling: First-Principles vs Data-Drive Approaches, pp. 3777-3782.
 He, Qinghua Tuskegee Univ.
 Wang, Jin Auburn Univ.

ThB19 Dover A
HCCI Engine Modeling and Control (Invited Session)

Chair: Wang, Junmin Ohio State Univ.
 Co-Chair: Karnik, Amey Ford Motor Company
 Organizer: Wang, Junmin Ohio State Univ.
 Organizer: Mohammadpour, Javad Univ. of Houston
 Organizer: Karnik, Amey Ford Motor Company
 Organizer: Onori, Simona Ohio State Univ.
 Organizer: Marano, Vincenzo The Ohio State Univ.

13:40-14:00 ThB19.1

HCCI Engine Control Strategy with External EGR (I), pp. 3783-3790.
 Kang, Jun-Mo General Motors Holdings LLC
 Druzhinina, Maria General Motors Powertrain

14:00-14:20 ThB19.2

A Mixed Mean-Value and Crank-Based Model of a Dual-Stage Turbocharged SI Engine for Hardware-In-The-Loop Simulation (I), pp. 3791-3796.
 Yang, Xiaojian Michigan State Univ.
 Zhu, Guoming Michigan State Univ.

14:20-14:40 ThB19.3

Modeling and Control of Exhaust Recompression HCCI Using Split Injection (I), pp. 3797-3802.
 Ravi, Nikhil Stanford Univ.
 Liao, Hsien-Hsin Stanford
 Jungkunz, Adam Stanford Univ.
 Gerdes, J. Christian Stanford Univ.

14:40-15:00 ThB19.4

Representing Change in HCCI Dynamics with a Switching Linear Model (I), pp. 3803-3808.
 Liao, Hsien-Hsin Stanford
 Ravi, Nikhil Stanford Univ.

Jungkunz, Adam	Stanford Univ.
Kang, Jun-Mo	General Motors Holdings LLC
Gerdes, J. Christian	Stanford Univ.
15:00-15:20	ThB19.5
<i>Control-Oriented Mixing Model for Homogeneous Charge Compression Ignition Engines (I)</i> , pp. 3809-3816.	
McCuen, Matthew J.	Univ. of Minnesota
Sun, Zongxuan	Univ. of Minnesota
Zhu, Guoming	Michigan State Univ.
15:20-15:40	ThB19.6
<i>Modeling and Control of a Heated Air Intake Homogeneous Charge Compression Ignition (HCCI) Engine (I)</i> , pp. 3817-3823.	
Lee, Donghoon	Univ. of Michigan
Stefanopoulou, Anna G.	Univ. of Michigan
Makkapati, Satheesh	Ford Motor Company
Jankovic, Mrdjan	Ford Res. & Advanced Engineering

ThB20 Dover B

Multivehicle Systems I (Regular Session)

Chair: Muske, Kenneth R.	Villanova Univ.
Co-Chair: Tan, Han-Shue	Univ. of California at Berkeley
13:40-14:00	ThB20.1
<i>Application of a Coordinated Trajectory Planning and Real-Time Obstacle Avoidance Algorithm</i> , pp. 3824-3829.	
McNinch, Lucas	Villanova Univ.
Soltan, Reza A.	Villanova Univ.
Muske, Kenneth R.	Villanova Univ.
Ashrafioun, Hashem	Villanova Univ.
Peyton Jones, James	Villanova Univ.
14:00-14:20	ThB20.2
<i>Distributed Containment Control for Double-Integrator Dynamics: Algorithms and Experiments</i> , pp. 3830-3835.	
Cao, Yongcan	Utah State Univ.
Stuart, Daniel	Utah State Univ.
Ren, Wei	Utah State Univ.
Meng, Ziyang	Tsinghua Univ.
14:20-14:40	ThB20.3
<i>Long Distance Synchronization of Mobile Robots</i> , pp. 3836-3841.	
Alvarez-Aguirre, Alejandro	Eindhoven Univ. of Tech.
Nijmeijer, Hendrik	Eindhoven Univ. of Tech.
Oguchi, Toshiki	Tokyo Metro. Univ.
14:40-15:00	ThB20.4
<i>A Combined Tabu Search and 2-Opt Heuristic for Multiple Vehicle Routing</i> , pp. 3842-3847.	
Jackson, Justin	Univ. of Michigan
Girard, Anouck	Univ. of Michigan, Ann Arbor
Rasmussen, Steven	Miami Valley Aerospace LLC
Schumacher, Corey	Air Force Res. Lab.
15:00-15:20	ThB20.5
<i>Modeling and Tracking of Public Transit in Urban Environments</i> , pp. 3848-3853.	
Castanon, David A.	Boston Univ.
Kumar, Rohit	Boston Univ.
15:20-15:40	ThB20.6
<i>Lateral Control of an Articulated Bus for Lane Guidance and Curbside Precision Docking</i> , pp. 3854-3859.	
Bu, Fanping	Univ. of California at Berkeley
Tan, Han-Shue	Univ. of California at Berkeley
Huang, Jihua	UC Berkeley

ThB21 Dover C

Identification and Control of LPV Systems (Invited Session)

Chair: Mohammadpour, Javad	Univ. of Houston
Co-Chair: Werner, Herbert	Hamburg Univ. of Tech.
Organizer: Mohammadpour, Javad	Univ. of Houston
13:40-14:00	ThB21.1
<i>An LPV Approach to the Guaranteed Cost Control for Lur'e Systems (I)</i> , pp. 3860-3864.	
Lee, Sangmoon	Daegu Univ.
Kwon, Ohmin	Chungbuk National Univ.
Jung, Ho-Youl	Yeungnam Univ.
Park, Ju H.	Yeungnam Univ.
14:00-14:20	ThB21.2
<i>Identification of LPV Output-Error and Box-Jenkins Models Via Optimal Refined Instrumental Variable Methods (I)</i> , pp. 3865-3870.	
Laurain, Vincent	Nancy-Univ.
Gilson, Marion	Nancy-Univ.
Tóth, Roland	Delft Univ. of Tech.
Garnier, Hugues	Nancy-Univ.

14:20-14:40		ThB21.3
<i>Gain Scheduling versus Robust Control of LPV Systems: The Output Feedback Case (I)</i> , pp. 3871-3876.		
Blanchini, Franco		Univ. degli Studi di Udine
Miani, Stefano		Univ. degli Studi di Udine
14:40-15:00		ThB21.4
<i>LPV Analysis and Control Using Fast Iterative Solutions to Rationally Parametric Lyapunov and Riccati Equations</i> , pp. 3877-3882.		
Rice, Justin		TU Delft
Verhaegen, Michel		Delft Univ. of Tech.
15:00-15:20		ThB21.5
<i>State-Space Realization of LPV Input-Output Models: Practical Methods for the User (I)</i> , pp. 3883-3888.		
Abbas, Hossam Seddik		Hamburg Univ. of Tech.
Tóth, Roland		Delft Univ. of Tech.
Werner, Herbert		Hamburg Univ. of Tech.
15:20-15:40		ThB21.6
<i>Identification of LPV Models for Spatially Varying Interconnected Systems (I)</i> , pp. 3889-3894.		
Ali, Mukhtar		Tech. Univ. Hamburg Harburg (TUHH)
Chughtai, Saulat Shuja		Hamburg Univ. of Tech.
Werner, Herbert		Hamburg Univ. of Tech.

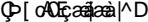
ThB22		Laurel D
Robust Stability (Regular Session)		
Chair: Watkins, John		Wichita State Univ.
Co-Chair: Keel, L. H.		Tennessee State Univ.
13:40-14:00		ThB22.1
<i>Efficient Computation of a Guaranteed Stability Domain for a High-Order Parameter Dependent Plant</i> , pp. 3895-3900.		
Roos, Clément		ONERA / DCSD
Biannic, Jean-Marc		ONERA
14:00-14:20		ThB22.2
<i>A New Framework for Robust Stability Analysis of Quantized Feedback Systems</i> , pp. 3901-3906.		
Ishido, Yumiko		Kyoto Univ.
Takaba, Kiyotsugu		Kyoto Univ.
14:20-14:40		ThB22.3
<i>Robust Stability of Complex Systems with Applications to Performance Attainment Problems</i> , pp. 3907-3912.		
Knap, Michael Jason		Tennessee State Univ.
Keel, L. H.		Tennessee State Univ.
Bhattacharyya, Shankar P.		Texas A & M Univ.
14:40-15:00		ThB22.4
<i>A Robust Stabilization Using State Feedback with Feedforward</i> , pp. 3913-3919.		
A. Danapalasingam, Kumeresan		Aalborg Univ.
la Cour-Harbo, Anders		Aalborg Univ.
Chowdhary, Girish		Georgia Inst. of Tech.
Bisgaard, Morten		Aalborg Univ.
15:00-15:20		ThB22.5
<i>Quadratic Stabilizability for Polytopic Uncertain Continuous-Time Switched Linear Systems by Output Feedback</i> , pp. 3920-3925.		
Otsuka, Naohisa		Tokyo Denki Univ.
Soga, Takuya		Tokyo Denki Univ.
15:20-15:40		ThB22.6
<i>A Unified Approach for Robust Stability Design of PID Controllers</i> , pp. 3926-3931.		
Watkins, John		Wichita State Univ.
Emami, Tooran		Wichita State Univ.

ThC01		Harborside Ballroom A
Hierarchical and Distributed Model Predictive Control (Invited Session)		
Chair: De Schutter, Bart		Delft Univ. of Tech.
Co-Chair: Ocampo-Martinez, Carlos		Inst. de Robotica i Informatica Industrial (CSIC-UPC)
Organizer: De Schutter, Bart		Delft Univ. of Tech.
Organizer: Negenborn, Rudy		Delft Univ. of Tech.
Organizer: Diehl, Moritz		Katholieke Univ. Leuven
16:00-16:20		ThC01.1
<i>Almost Decentralized Lyapunov-Based Nonlinear Model Predictive Control (I)</i> , pp. 3932-3938.		
Hermans, R.M.		Eindhoven Univ. of Tech.
Lazar, Mircea		Eindhoven Univ. of Tech.
Jokic, Andrej		Eindhoven Univ. of Tech.
16:20-16:40		ThC01.2
<i>Decentralized Robust Control Invariance for a Network of Integrators (I)</i> , pp. 3939-3944.		
Baric, Miroslav		Univ. of California, Berkeley
Borrelli, Francesco		University of California at Berkeley
16:40-17:00		ThC01.3
<i>Distributed Hierarchical MPC for Conflict Resolution in Air Traffic Control (I)</i> , pp. 3945-3950.		

Chaloulos, Georgios	Swiss Federal Inst. of Tech.
Hokayem, Peter	ETH Zurich
Lygeros, John	ETH Zurich
17:00-17:20	ThC01.4
<i>Model Predictive Control of Drinking Water Networks: A Hierarchical and Decentralized Approach (I)</i> , pp. 3951-3956.	
Ocampo-Martinez, Carlos	Inst. de Robotica i Informatica Industrial (CSIC-UPC)
Fambrini, Valentina	Univ. of Siena
Barcelli, Davide	Univ. of Siena
Puig, Vicenc	UPC
17:20-17:40	ThC01.5
<i>Coordination in Urban Water Supply Networks Using Distributed Model Predictive Control (I)</i> , pp. 3957-3962.	
Leirens, Sylvain	Univ. de Los Andes
Zamora, Catherin	Univ. de Los Andes
Negenborn, Rudy	Delft Univ. of Tech.
De Schutter, Bart	Delft Univ. of Tech.
17:40-18:00	ThC01.6
<i>Hierarchical Cooperative Distributed Model Predictive Control (I)</i> , pp. 3963-3968.	
Stewart, Brett T.	Univ. of Wisconsin - Madison
Rawlings, James B.	Univ. of Wisconsin-Madison
Wright, Stephen Joseph	Univ. of Wisconsin-Madison

ThC02	Harborside Ballroom B
Agent-Based Systems II (Regular Session)	
Chair: Lazar, Mircea	Eindhoven Univ. of Tech.
Co-Chair: Ghadami, Rasoul	Northeastern Univ.
16:00-16:20	ThC02.1
<i>Distributed H2 Control of Multi-Agent Dynamic Systems: Continuous-Time Case</i> , pp. 3969-3974.	
Ghadami, Rasoul	Northeastern Univ.
Shafai, Bahram	Northeastern Univ.
16:20-16:40	ThC02.2
<i>The Navigation Potential of Ground Feature Tracking for Aircraft Navigation</i> , pp. 3975-3979.	
Pachter, Meir	AFIT/ENG
Mutlu, Guner	Air Force Inst. of Tech.
16:40-17:00	ThC02.3
<i>Feasibility Study of Partial Observability in H Infinity Filtering for Robot Localization and Mapping Problem</i> , pp. 3980-3985.	
Ahmad, Hamzah	Graduate School of Natural Science and Tech. Kanazawa Univ.
Namerikawa, Toru	Keio Univ.
17:00-17:20	ThC02.4
<i>Distributed Consensus-Based Bayesian Estimation: Sufficient Conditions for Performance Characterization</i> , pp. 3986-3991.	
Varagnolo, Damiano	Univ. of Padova
Pillonetto, Gianluigi	Univ. of Padova
Schenato, Luca	Univ. of Padova
17:20-17:40	ThC02.5
<i>State Fusion with Unknown Correlation: Ellipsoidal Intersection</i> , pp. 3992-3997.	
Sijs, Joris	TNO
Lazar, Mircea	Eindhoven Univ. of Tech.
van den Bosch, P. P. J.	Eindhoven Univ. of Tech.
17:40-18:00	ThC02.6
<i>Decentralized Planning for Complex Missions with Dynamic Communication Constraints</i> , pp. 3998-4003.	
Ponda, Sameera	MIT
Redding, Joshua	Massachusetts Inst. of Tech.
Choi, Han-Lim	MIT
How, Jonathan P.	MIT
Vavrina, Matthew	Boeing
Vian, John L	The Boeing Company

ThC03	Harborside Ballroom D
Adaptive Control VI (Regular Session)	
Chair: Young, Peter M.	Colorado State Univ.
Co-Chair: Vakhitov, Alexander	Saint Petersburg State Univ.
16:00-16:20	ThC03.1
<i>Adaptive Control of SISO Plant with Time-Varying Coefficients Based on Random Test Perturbation</i> , pp. 4004-4009.	
Vakhitov, Alexander	Saint Petersburg State Univ.
Granichin, Oleg N.	St.Petersburg State Univ.
Vlasov, Vsevolod	Saint-Petersburg State Univ.
16:20-16:40	ThC03.2
<i>Perfect Tracking for Non-Minimum Phase Systems</i> , pp. 4010-4015.	
Buehner, Michael R.	Colorado State Univ.
Young, Peter M.	Colorado State Univ.

16:40-17:00		ThC03.3
<i>Cumulative Retrospective Cost Adaptive Control with RLS-Based Optimization</i> , pp. 4016-4021.		
Hoagg, Jesse B.		Univ. of Michigan
Bernstein, Dennis S.		Univ. of Michigan
17:00-17:20		ThC03.4
<i>Verifying Closed-Loop Performance before Inserting a New Controller</i> , pp. 4022-4027.		
Dehghani, Arvin		The Australian National Univ.
Anderson, Brian D.O.		Australian National Univ.
Cha, Sung Han		RSISE, The Australian National Univ.
17:20-17:40		ThC03.5
<i>A Neuroadaptive Control Architecture for Nonlinear Uncertain Dynamical Systems with Input Constraints</i> , pp. 4028-4033.		
Yucelen, Tansel		Georgia Inst. of Tech.
Haddad, Wassim M.		Georgia Inst. of Tech.
Calise, Anthony J.		Georgia Inst. of Tech.
17:40-18:00		ThC03.6
<i>A Series Inspired CPG Model for Robot Walking Control*</i> . 		
Zhang, Jiaqi		Tongji Univ.
Tomizuka, Masayoshi		Univ. of California, Berkeley
Chen, Qijun		Tongji Univ.
Liu, Chengju		Tongji Univ.

ThC04 Harborside Ballroom E

Switched Systems IV (Regular Session)

Chair: Hayakawa, Tomohisa		Tokyo Inst. of Tech.
Co-Chair: Tao, Gang		Univ. of Virginia
16:00-16:20		ThC04.1
<i>Stability of Discrete-Time Conewise Linear Inclusions and Switched Linear Systems</i> , pp. 4034-4039.		
Shen, Jinglai		Univ. of Maryland Baltimore County
Hu, Jianghai		Purdue Univ.
16:20-16:40		ThC04.2
<i>Adaptive Control of Piecewise Linear Systems: The State Tracking Case</i> , pp. 4040-4045.		
Sang, Qian		the Univ. of Virginia
Tao, Gang		Univ. of Virginia
16:40-17:00		ThC04.3
<i>Stability of Stochastic Systems with Probabilistic Mode Switchings and State Jumps</i> , pp. 4046-4051.		
Cetinkaya, Ahmet		Tokyo Inst. of Tech.
Kashima, Kenji		Tokyo Inst. of Tech.
Hayakawa, Tomohisa		Tokyo Inst. of Tech.
17:00-17:20		ThC04.4
<i>Improvements in the Sensor Recovery Mechanism for a Multisensor Control Scheme</i> , pp. 4052-4057.		
Stoican, Florin		SUPELEC
Olaru, Sorin		Supélec
De Dona, Jose Adrian		The Univ. of Newcastle
Seron, Maria		The Univ. of Newcastle
17:20-17:40		ThC04.5
<i>L₂-Gain of Systems with Controller Failure under Zero-Order Hold Model</i> , pp. 4058-4063.		
Sun, Xi-Ming		Dalian Univ. of Tech.
Liu, Guoping		Univ. of Glamorgan
Wang, Wei		Dalian Univ. of Tech.
Rees, David		Univ. of Glamorgan
17:40-18:00		ThC04.6
<i>L₂-Induced Gain Analysis of Switched Linear Systems Via Finitely Parametrized Storage Functions</i> , pp. 4064-4069.		
Hirata, Kenji		Nagaoka Univ. of Tech.
Hespanha, Joao P.		Univ. of California, Santa Barbara

ThC05 Essex A

Optimization I (Regular Session)

Chair: Kiriakidis, Kiriakos		U.S. Naval Acad.
Co-Chair: Rinehart, Michael		Massachusetts Inst. of Tech.
16:00-16:20		ThC05.1
<i>Robust Measurement Design for Detecting Sparse Signals: Equiangular Uniform Tight Frames and Grassmannian Packings</i> , pp. 4070-4075.		
Zahedi, Ramin		Colorado State Univ.
Pezeshki, Ali		Colorado State Univ.
Chong, Edwin K. P.		Colorado State Univ.
16:20-16:40		ThC05.2
<i>Identification of an Agent Interaction Network</i> , pp. 4076-4077.		
Kiriakidis, Kiriakos		U.S. Naval Acad.
16:40-17:00		ThC05.3

<i>A Graph Reduction for Bounding the Value of Side Information in Shortest Path Optimization</i> , pp. 4078-4083. Rinehart, Michael Dahleh, Munther A.	Massachusetts Inst. of Tech. Massachusetts Inst. of Tech.
17:00-17:20 <i>The Value of Sequential Information in Shortest Path Optimization</i> , pp. 4084-4089. Rinehart, Michael Dahleh, Munther A.	Massachusetts Inst. of Tech. Massachusetts Inst. of Tech.
17:20-17:40 <i>Controlling Chaos in El Nino</i> , pp. 4090-4094. MacMynowski, Douglas G.	ThC05.4 California Inst. of Tech.
17:40-18:00 <i>Exactness Verification of Sum-Of-Squares Approximations to Robust Semidefinite Programs with Functional Variables</i> , pp. 4095-4100. Jennawasin, Tanagorn Kawanishi, Michihiro Narikiyo, Tatsuo	ThC05.6 Toyota Tech. Inst. Toyota Tech. Inst. Toyota Tech. Inst.

ThC06 Essex B

Scheduling, Guidance and Optimization of Actuators/Sensors in DPS (Invited Session)	
Chair: Demetriou, Michael A.	Worcester Pol. Inst.
Co-Chair: Armaou, Antonios	The Pennsylvania State Univ.
Organizer: Demetriou, Michael A.	Worcester Pol. Inst.
Organizer: Armaou, Antonios	The Pennsylvania State Univ.
16:00-16:20 <i>Design of Spatially Distributed Filters for Distributed Parameter Systems Using Mobile Sensor Networks (I)</i> , pp. 4101-4108. Demetriou, Michael A.	ThC06.1 Worcester Pol. Inst.
16:20-16:40 <i>Multi-Agent Deployment to a Family of Planar Arcs (I)</i> , pp. 4109-4114. Frihauf, Paul Krstic, Miroslav	ThC06.2 Univ. of California, San Diego Univ. of California at San Diego
16:40-17:00 <i>Linear and Quadratic Programming Formulations of Data Assimilation or Data Reconciliation Problems for a Class of Hamilton-Jacobi Equations (I)</i> , pp. 4115-4120. Claudel, Christian Bayen, Alexandre M.	ThC06.3 UC Berkeley Univ. of California at Berkeley
17:00-17:20 <i>Resource-Aware Scheduled Control of Distributed Process Systems Over Wireless Sensor Networks (I)</i> , pp. 4121-4126. Yao, Zhiyuan Sun, Yulei El-Farra, Nael H.	ThC06.4 Univ. of California, Davis Univ. of California, Davis Univ. of California, Davis
17:20-17:40 <i>Optimal Sensor Design for Estimation and Optimization of PDE Systems (I)</i> , pp. 4127-4132. Burns, John A Cliff, Eugene M. Rautenberg, Carlos Nicolas Zietsman, Lizette	ThC06.5 Virginia Tech. Virginia Tech. Virginia Tech. Virginia Tech.
17:40-18:00 <i>Surface Wind Profile Measurement Using Multiple Unmanned Aerial Vehicles (I)</i> , pp. 4133-4138. Chao, Haiyang Chen, YangQuan	ThC06.6 Utah State Univ. Utah State Univ.

ThC07 Essex C

Markov Processes (Regular Session)	
Chair: Costa, Eduardo F.	Univ. de São Paulo
Co-Chair: How, Jonathan P.	MIT
16:00-16:20 <i>Markov Chain Modeling Approaches for on Board Applications</i> , pp. 4139-4145. Filev, Dimitre P. Kolmanovsky, Ilya V.	ThC07.1 Ford Motor Company The Univ. of Michigan
16:20-16:40 <i>Approximate Dynamic Programming Using Model-Free Bellman Residual Elimination</i> , pp. 4146-4151. Bethke, Brett How, Jonathan P.	ThC07.2 Massachusetts Inst. of Tech. MIT
16:40-17:00 <i>Whittle-Indexability of the Cow Path Problem</i> , pp. 4152-4158. Temple, Tom Frazzoli, Emilio	ThC07.3 MIT Massachusetts Inst. of Tech.
17:00-17:20 <i>On the Stability of the Recursive Kalman Filter with Markov Jump Parameters</i> , pp. 4159-4163. Maria Josiane Ferreira Gomes, Josiane	ThC07.4 USP- Univ. de São Paulo

Costa, Eduardo F.	Univ. de São Paulo
17:20-17:40	ThC07.5
<i>H_∞ Estimates for Discrete-Time Markovian Jump Linear Systems</i> , pp. 4164-4169.	
Jesus, Gildson	Univ. of São Paulo
Terra, Marco Henrique	Univ. of São Paulo at São Carlos
Ishihara, João Yoshiyuki	Univ. of Brasília
17:40-18:00	ThC07.6
<i>On the Observability of Continuous Time Linear Systems with Markov Jump Parameters</i> , pp. 4170-4174.	
Narváez, Alfredo R. R.	Univ. de São Paulo - Inst. de Ciências Matemáticas e
Costa, Eduardo F.	Univ. de São Paulo

ThC08	Laurel A
Micro Systems (Regular Session)	
Chair: Messner, William	Carnegie Mellon Univ.
Co-Chair: Su, Chun-Yi	Concordia Univ.
16:00-16:20	ThC08.1
<i>An Integrated Gain Scheduled Control Design for an Electrostatic Micro-Actuator with Aerodynamic Effects</i> , pp. 4175-4180.	
Vagia, Marialena	Univ. of Patras
Tzes, Anthony	Univ. of Patras
16:20-16:40	ThC08.2
<i>Robust Control for Shape Memory Alloy Micro-Actuators Based Flap Positioning System</i> , pp. 4181-4186.	
Feng, Ying	Concordia Univ.
Rabbath, Camille Alain	Defence R&D Canada
Hong, H.	Concordia Univ.
Al Janaideh, Mohammad	Concordia Univ.
Su, Chun-Yi	Concordia Univ.
16:40-17:00	ThC08.3
<i>Hysteresis-Observer Based Robust Tracking Control of Piezoelectric Actuators</i> , pp. 4187-4192.	
Sheikh Sofla, Mohammad	Amirkabir Univ. of Tech. Tehran Iran
Rezaei, Seyed Mehdi	Amirkabir Univ. of Tech.
Zareinejad, Mohammad	Amirkabir Univ. of Tech. Tehran Iran
Saadat, Mozafar	The Univ. of Birmingham
17:00-17:20	ThC08.4
<i>Efficient Fixed-Point Realization of Approximate Dynamic Inversion Compensators for Non-Minimum Phase Systems</i> , pp. 4193-4198.	
Chang, Herrick	Univ. of California, Los Angeles
Tsao, Tsu-chin	Univ. of California, Los Angeles
17:20-17:40	ThC08.5
<i>Nonlinear Modeling and Control of a Coupled Variable Fluidic Resistance and Squeeze Pump for Pressure Regulation in Microfluidics</i> , pp. 4199-4204.	
Kim, YongTae	Carnegie Mellon Univ.
LeDuc, Philip	Carnegie Mellon Univ.
Messner, William	Carnegie Mellon Univ.
17:40-18:00	ThC08.6
<i>Experimental Demonstration of the Dynamics and Stability of a Low Reynolds Number Swimmer Near a Plane Wall</i> , pp. 4205-4210.	
Zhang, Sebastian	Clemson Univ.
Or, Yizhar	Tech. - Israel Inst. of Tech.
Murray, Richard M.	California Inst. of Tech.

ThC09	Laurel B
Stabilization (Regular Session)	
Chair: Lawrence, Douglas A.	Ohio Univ.
Co-Chair: Stoorvogel, Anton A.	Univ. of Twente
16:00-16:20	ThC09.1
<i>Output Feedback Stabilization for Linear Impulsive Systems</i> , pp. 4211-4216.	
Medina, Enrique	Ohio Univ.
Lawrence, Douglas A.	Ohio Univ.
16:20-16:40	ThC09.2
<i>Stabilization of Sandwich Non-Linear Systems with Low-And-High Gain Feedback Design</i> , pp. 4217-4222.	
Stoorvogel, Anton A.	Univ. of Twente
Wang, Xu	Washington State Univ.
Saberi, Ali	Washington State Univ.
Sannuti, Peddapullaiah	Rutgers Univ.
16:40-17:00	ThC09.3
<i>Global Finite-Time Stabilization of a Class of Upper-Triangular Systems</i> , pp. 4223-4228.	
Ding, Shihong	Southeast Univ.
Qian, Chunjiang	Univ. of Texas at San Antonio
Li, Shihua	Southeast Univ.
17:00-17:20	ThC09.4
<i>Semiglobal Stabilization of Sandwich Systems by Dynamic Output Feedback</i> , pp. 4229-4234.	

Grip, Hívard Fjór	NTNU
Saberi, Ali	Washington State Univ.
Stoorvogel, Anton A.	Univ. of Twente
Wang, Xu	Washington State Univ.
Roy, Sandip	Washington State Univ.
17:20-17:40	ThC09.5
<i>Synthesis of Output Feedback Controllers for a Class of Nonlinear Parameter-Varying Discrete-Time Systems Subject to Actuators Limitations</i> , pp. 4235-4240.	
Castelan, Eugenio B.	Univ. Federal de Santa Catarina
Leite, Valter J. S.	CEFET/MG - Campus Div.
Miranda, Marcio Fantini	Federal Univ. of Minas Gerais
Moraes, Vitor Mateus	Univ. Federal de Santa Catarina
17:40-18:00	ThC09.6
<i>Global Output Feedback Stabilisation of a Class of Nonlinear Systems with Unstable Zero Dynamics</i> , pp. 4241-4246.	
Ding, Zhengtao	The Univ. of Manchester

ThC10 Laurel C

Periodic Systems (Regular Session)

Chair: Rogers, Eric	Univ. of Southampton
Co-Chair: Gomes Da Silva Jr., Joao Manoel	Univ. Federal do Rio Grande do Sul
16:00-16:20	ThC10.1
<i>Frequency-Domain Criteria for Robust Stability for a Class of Linear Time-Periodic Systems</i> , pp. 4247-4252.	
Altshuller, Dmitry	Crane Aerospace & Electronics
16:20-16:40	ThC10.2
<i>Periodic Observer Design for Networked Embedded Control Systems</i> , pp. 4253-4258.	
Simon, Stefan	Univ. of Kaiserslautern
Görges, Daniel	Univ. of Kaiserslautern
Izák, Michal	Univ. of Kaiserslautern
Liu, Steven	Univ. of Kaiserslautern
16:40-17:00	ThC10.3
<i>Robust Repetitive Control with Saturating Actuators: A LMI Approach</i> , pp. 4259-4264.	
Flores, Jeferson Vieira	UFRGS
Gomes Da Silva Jr., Joao Manoel	Univ. Federal do Rio Grande do Sul
Pereira, Luís Fernando Alves	Univ. Federal do Rio Grande do Sul
Sbarbaro, Daniel G.	Univ. de Concepcion
17:00-17:20	ThC10.4
<i>A Parametric Periodic Lyapunov Equation with Application in Semi-Global Stabilization of Discrete-Time Periodic Systems Subject to Actuator Saturation</i> , pp. 4265-4270.	
Zhou, Bin	Harbin Inst. of Tech.
Duan, Guang-Ren	Harbin Inst. of Tech.
Lin, Zongli	Univ. of Virginia
17:20-17:40	ThC10.5
<i>Circular Periodic Motion Generation for Mobile Robots Using Limit Cycle Systems</i> , pp. 4271-4276.	
Hara, Naoyuki	Osaka Prefecture Univ.
Kokame, Hideki	Osaka Prefecture Univ.
Konishi, Keiji	Osaka Prefecture Univ.
17:40-18:00	ThC10.6
<i>Predictive Repetitive Control Based on Frequency Decomposition</i> , pp. 4277-4282.	
Wang, Liuping	Rmit Univ.
Chai, Shan	Royal Melbourne Inst. of Tech.
Rogers, Eric	Univ. of Southampton

ThC11 Grand Ballroom I

Control Applications III (Regular Session)

Chair: Enes, Aaron	Georgia Inst. of Tech.
Co-Chair: Bandal, Vitthal	Govt. Coll. of Engineering, Pune,
16:00-16:20	ThC11.1
<i>Modeling and Control of Cyclic Systems in Xerography</i> , pp. 4283-4288.	
Ching, ShiNung	Massachusetts Inst. of Tech.
Eun, Yongsoon	Xerox
Gross, Eric	Xerox
Hamby, Eric S.	Xerox Corp.
Kabamba, Pierre T.	Univ. of Michigan
Meerkov, Semyon M.	Univ. of Michigan
Menezes, Amor A.	Univ. of Michigan
16:20-16:40	ThC11.2
<i>Design of a Discrete-Time Sliding Mode Controller for a Magnetic Levitation System Using Multirate Output Feedback</i> , pp. 4289-4294.	
Bandal, Vitthal	Govt. Coll. of Engineering, Pune,
Vernekar, Pratik	Coll. of Engineering ,Pune

16:40-17:00		ThC11.3
<i>An Optimal Washout Filter Design for a Motion Platform with Senseless and Angular Scaling Maneuvers</i> , pp. 4295-4300.		
Chen, Sung-Hua		National Taiwan Univ.
Fu, Li-Chen		National Taiwan Univ.
17:00-17:20		ThC11.4
<i>Identification and Control of Linear Dynamics with Input Preisach Hysteresis</i> , pp. 4301-4306.		
Liu, Lei		National Univ. of Singapore
Tan, Kok Kiong		National Univ. of Singapore
Huang, Sunan		National Univ. of Singapore
Lee, Tong Heng		National Univ. of Singapore
17:20-17:40		ThC11.5
<i>Blended Shared Control of Zermelo's Navigation Problem</i> , pp. 4307-4312.		
Enes, Aaron R.		Georgia Inst. of Tech.
Book, Wayne J.		Georgia Inst. of Tech.
17:40-18:00		ThC11.6
<i>Lyapunov Based Control in Microstepping with a Nonlinear Observer for Permanent Magnet Stepper Motors</i> , pp. 4313-4318.		
Kim, Wonhee		Hanyang
Choi, Induk		Hanyang Univ.
Chung, Chung Choo		Hanyang Univ.

ThC12		Grand Ballroom II
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Green Engineering (Regular Session)		
Chair: Wisniewski, Rafal		Aalborg Univ.
Co-Chair: Fagiano, Lorenzo		Pol. di Torino
16:00-16:20		ThC12.1
<i>Control Strategies for OWC Wave Power Plants</i> , pp. 4319-4324.		
Amundarain, Modesto		Univ. of the Basque Country
Alberdi Goitia, Mikel		Univ. of the Basque Country
Garrido, Aitor J.		Univ. of the Basque Country
Garrido, Izaskun		Univ. of the Basque Country
16:20-16:40		ThC12.2
<i>Control of Power Kites for Naval Propulsion</i> , pp. 4325-4330.		
Fagiano, Lorenzo		Pol. di Torino
Milanese, Mario		Pol. di Torino
Razza, Valentino		Pol. di Torino
Gerlero, Ilario		Modelway s.r.l.
16:40-17:00		ThC12.3
<i>Efficient Gear Shifting Strategies for Green Driving Policies</i> , pp. 4331-4336.		
Casavola, Alessandro		Univ. Della Calabria
Rocca, Giuseppe		Magneti Marelli Powertrain
Prodi, Giovanni		Magneti Marelli S.p.A.
17:00-17:20		ThC12.4
<i>Online Distributed State and Parameter Estimation for Feedback Control of a Curing Process</i> , pp. 4337-4342.		
Zeng, Fan		Clemson Univ.
Ayalew, Beshah		Clemson Univ.
17:20-17:40		ThC12.5
<i>Wind Deficit Model in a Wind Farm Using Finite Volume Method</i> , pp. 4343-4348.		
Soleimanzadeh, Maryam		Aalborg Univ.
Wisniewski, Rafal		Aalborg Univ.
Shakeri, Sayyed Mojtaba		Aalborg Univ.
17:40-18:00		ThC12.6
<i>Robust Control Design for Frequency Regulation in Power Systems with High Wind Penetration</i> , pp. 4349-4354.		
Liu, Juhua		Carnegie Mellon Univ.
Krogh, Bruce H.		Carnegie Mellon Univ.
Ilic, Marija		Carnegie Mellon Univ.

ThC13		Grand Ballroom III
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Biomedical Control II (Regular Session)		
Chair: Westwick, David		Univ. of Calgary
Co-Chair: Qin, S. Joe		Univ. of Southern California
16:00-16:20		ThC13.1
<i>Modeling and Analysis of Cell Differentiation Using Hybrid Systems</i> , pp. 4355-4360.		
Kamgarpour, Maryam		Univ. of California, Berkeley
Tomlin, Claire J.		UC Berkeley
16:20-16:40		ThC13.2
<i>State-Constrained Optimal Spatial Field Control for Controlled Release in Tissue Engineering</i> , pp. 4361-4366.		
Kishida, Masako		Univ. of Illinois, Urbana-Champaign
Pack, Daniel W.		Univ. of Illinois, Urbana-Champaign
Braatz, Richard D.		Univ. of Illinois, Urbana-Champaign

16:40-17:00		ThC13.3
<i>Frequency Domain Identification of a Parallel-Cascade Joint Stiffness Model</i> , pp. 4367-4372.		
Swain, Akshya		Univ. of Auckland
Westwick, David		Univ. of Calgary
Perreault, Eric		Northwestern Univ.
17:00-17:20		ThC13.4
<i>Online Dropout Detection in Subcutaneously Implanted Continuous Glucose Monitoring</i> , pp. 4373-4378.		
Shen, Quan		The Univ. of Texas at Austin
Qin, S. Joe		Univ. of Southern California
Doniger, Kenneth		Abbott Diabetes Care
17:20-17:40		ThC13.5
<i>Online Nonlinear Identification of the Effect of Drugs in Anaesthesia Using a Minimal Parameterization and BIS Measurements</i> , pp. 4379-4384.		
Martins da Silva, Margarida		Faculdade de Ciências - Univ. do Porto
Mendonça, Teresa		Fac. de Ciências da Univ. do Porto
Wigren, Torbjorn		Uppsala Univ.
17:40-18:00		ThC13.6
<i>Tracking Control of a Pneumatic Muscle Actuator Using One Servovalve</i> , pp. 4385-4390.		
Krichel, Susanne		Univ. of Stuttgart
Hildebrandt, Alexander		Res. Mechatronic Systems
Sawodny, Oliver		Univ. of Stuttgart
ThC14		Grand Ballroom IV
Process Control II (Regular Session)		
Chair: Chmielewski, Donald J.		Illinois Inst. of Tech.
Co-Chair: Mhaskar, Prashant		McMaster Univ.
16:00-16:20		ThC14.1
<i>Inventory Control and LQG: Connections and Extensions</i> , pp. 4391-4396.		
Ong, Wai Kit		Illinois Inst. of Tech.
Durango-Cohen, Elizabeth		Illinois Inst. of Tech.
Chmielewski, Donald J.		Illinois Inst. of Tech.
16:20-16:40		ThC14.2
<i>A General Method for Defining and Structuring Buffer Management Problems</i> , pp. 4397-4402.		
Lindholm, Anna		Lund Univ.
Forsman, Krister		Perstorp AB
Johnsson, Charlotta		Lund Univ.
16:40-17:00		ThC14.3
<i>Simultaneous BOP Selection and Controller Design for the FCC Process</i> , pp. 4403-4408.		
Omell, Benjamin		Illinois Inst. of Tech.
Chmielewski, Donald J.		Illinois Inst. of Tech.
17:00-17:20		ThC14.4
<i>Supervisory Stability Assurance Layer for Hierarchical Plant-Wide Process Control</i> , pp. 4409-4414.		
Tran-Cao, Tri		UNSW
Bao, Jie		The Univ. of New South Wales
17:20-17:40		ThC14.5
<i>Robust Control and Fault-Handling of Batch Process Systems</i> , pp. 4415-4420.		
Aumi, Siam		McMaster Univ.
Mhaskar, Prashant		McMaster Univ.
17:40-18:00		ThC14.6
<i>Robust Characteristic-Based MPC of a Fixed-Bed Reactor</i> , pp. 4421-4426.		
Mohammadi Sardroud, Leily		Univ. of Alberta
Dubljevic, Stevan		Univ. of Alberta
Forbes, J. Fraser		Univ. of Alberta
ThC15		Grand Ballroom VII
Helicopter Control (Regular Session)		
Chair: Barczyk, Martin		Univ. of Alberta
Co-Chair: Lynch, Alan Francis		Univ. of Alberta
16:00-16:20		ThC15.1
<i>Robust Regulation for a 3DOF Helicopter Via Sliding-Modes Control and Observation Techniques</i> , pp. 4427-4432.		
Ríos, Héctor		Univ. Nacional Autónoma de México
Rosales Martínez, José Antonio		UNAM
DÁvila Merida, Israel Alejandro		UNAM
Ferreira de Loza, Alejandra		National Autonomous Univ.
16:20-16:40		ThC15.2
<i>Synchronized Altitude Tracking Control of Multiple Unmanned Helicopters</i> , pp. 4433-4438.		
Cui, Rongxin		National Univ. of Singapore
Ge, Shuzhi Sam		National Univ. of Singapore
Ren, Beibei		National Univ. of Singapore

16:40-17:00		ThC15.3
<i>An Experimental Validation of Magnetometer Integration into a GPS-Aided Helicopter UAV Navigation System</i> , pp. 4439-4444.		
Barczyk, Martin		Univ. of Alberta
Jost, Michael		Tech. Univ. Darmstadt
Kastelan, David		Univ. of Alberta
Lynch, Alan Francis		Univ. of Alberta
Listmann, Kim Daniel		Tech. Univ. Darmstadt
17:00-17:20		ThC15.4
<i>MAV Stability Augmentation Using Weighted Outputs from Distributed Hair Sensor Arrays</i> , pp. 4445-4450.		
Keshavan, Jishnu		Univ. of Maryland
Humbert, J. Sean		Univ. of Maryland
17:20-17:40		ThC15.5
<i>Constrained Optimal Attitude Control of a Quadrotor Helicopter Subject to Wind-Gusts: Experimental Studies</i> , pp. 4451-4455.		
Alexis, Kostas		Univ. of Patras
Nikolakopoulos, George		Univ. OF PATRAS
Tzes, Anthony		Univ. of Patras
17:40-18:00		ThC15.6
<i>Motion Estimation of a Miniature Helicopter Using a Single Onboard Camera</i> , pp. 4456-4461.		
Cherian, Anoop		Un. of Minnesota
Andersh, Jon		Univ. of Minnesota
Morellas, Vassilios		Univ. of Minnesota
Mettler, Bernard		Univ. of Minnesota
Papanikolopoulos, Nikolaos		Univ. of Minnesota

ThC16		Grand Ballroom VIII
Control of Networks (Regular Session)		

Chair: Tsumura, Koji		The Univ. of Tokyo
Co-Chair: Preciado, Victor M.		Univ. of Pennsylvania
16:00-16:20		ThC16.1
<i>Distributed Control of the Laplacian Spectral Moments of a Networks</i> , pp. 4462-4467.		
Preciado, Victor M.		Univ. of Pennsylvania
Zavlanos, Michael M.		Univ. of Pennsylvania
Jadbabaie, Ali		Univ. of Pennsylvania
Pappas, George J.		Univ. of Pennsylvania
16:20-16:40		ThC16.2
<i>Signal Complexity in Cyclic Consensus Systems</i> , pp. 4468-4473.		
Tsumura, Koji		The Univ. of Tokyo
16:40-17:00		ThC16.3
<i>H_∞ Performance and Robust Topology Design of Relative Sensing Networks</i> , pp. 4474-4479.		
Zelazo, Daniel		Univ. Stuttgart
Mesbahi, Mehran		Univ. of Washington
17:00-17:20		ThC16.4
<i>Global Robust H_∞/H_{inf} Synchronization for a Class of Dynamical Networks</i> , pp. 4480-4485.		
Xu, Shiyun		Peking Univ.
Yang, Ying		Peking Univ.
17:20-17:40		ThC16.5
<i>Exponential Synchronization of Switched Complex Dynamical Networks with Simultaneously Triangularizable Coupling Matrices</i> , pp. 4486-4491.		
Chen, Chao		Northeastern Univ.
Dimirovski, Georgi M		Dogus Univ. of Istanbul
Zhao, Jun		The Australian National Univ.
17:40-18:00		ThC16.6
<i>A Network Decomposition Approach for Efficient Sum of Squares Programming Based Analysis</i> , pp. 4492-4497.		
Anderson, James		Univ. of Oxford
Papachristodoulou, Antonis		Univ. of Oxford

ThC17		Grand Ballroom IX
Nonlinear Identification (Regular Session)		

Chair: Yao, Bin		Purdue Univ.
Co-Chair: Piroddi, Luigi		Pol. di Milano
16:00-16:20		ThC17.1
<i>Semiparametric Identification of Wiener Systems Using a Single Harmonic Input and Retrospective Cost Optimization</i> , pp. 4498-4503.		
D'Amato, Anthony		Univ. of Michigan
Teixeira, Bruno Otavio Soares		Federal Univ. of Minas Gerais
Bernstein, Dennis S.		Univ. of Michigan
16:20-16:40		ThC17.2
<i>Experimental Design for Identification of Nonlinear Systems with Bounded Uncertainties</i> , pp. 4504-4509.		
Lu, Lu		Purdue Univ. West Lafayette
Yao, Bin		Purdue Univ.

16:40-17:00		ThC17.3
<i>Recursive Prediction Error Identification and Scaling of Non-Linear Systems with Midpoint Numerical Integration</i> , pp. 4510-4515.		
Tayamon, Soma		Uppsala Univ.
Wigren, Torbjorn		Uppsala Univ.
17:00-17:20		ThC17.4
<i>Hammerstein Systems Identification in Presence of Nonparametric Backlash Nonlinearities</i> , pp. 4516-4521.		
Giri, Fouad		Univ. de Caen
Rochdi, Youssef		GREYC
Gning, Jean-Baptiste		Univ. of Caen
Chaoui, F.Z.		ENSET
17:20-17:40		ThC17.5
<i>LASSO-Enhanced Simulation Error Minimization Method for NARX Model Selection</i> , pp. 4522-4527.		
Bonin, Mariangela		Pol. di Milano
Seghezze, Valerio		Pol. di Milano
Piroddi, Luigi		Pol. di Milano
17:40-18:00		ThC17.6
<i>Wiener and Hammerstein Nonlinear Systems Identification Using Hybrid Genetic and Swarming Intelligence Based Culture Algorithm</i> , pp. 4528-4533.		
Naitali, Abdessamad		EMI, Univ. MV de Rabat-Agdal
Giri, Fouad		Univ. de Caen

ThC18		Grand Ballroom X
Vision-Based Systems (Regular Session)		
Chair: Vela, Patricio A.		Georgia Inst. of Tech.
Co-Chair: Ferrara, Antonella		Univ. of Pavia
16:00-16:20		ThC18.1
<i>Visual Motion Observer-Based Pose Control with Panoramic Camera Via Passivity Approach</i> , pp. 4534-4539.		
Kawai, Hiroyuki		Kanazawa Inst. of Tech.
Murao, Toshiyuki		Advanced Inst. of Industrial Tech.
Fujita, Masayuki		Tokyo Inst. of Tech.
16:20-16:40		ThC18.2
<i>Sliding Mode Observers for Vision-Based Fault Detection, Isolation and Identification in Robot Manipulators</i> , pp. 4540-4545.		
Capisani, Luca		Univ. of Pavia, ITALY
Ferrara, Antonella		Univ. of Pavia
Pisu, Pierluigi		Clemson Univ.
16:40-17:00		ThC18.3
<i>Observability of Planar Combined Relative Pose and Target Model Estimation Using Monocular Vision</i> , pp. 4546-4551.		
Tribou, Michael John		Univ. of Waterloo
Wang, David		Univ. of Waterloo
Wilson, William J.		Univ. of Waterloo
17:00-17:20		ThC18.4
<i>Experimental Evaluation of a Nonlinear Attitude Observer Based on Image and Inertial Measurements</i> , pp. 4552-4557.		
Brás, Sérgio		Inst. Superior Técnico
Cunha, Rita		Inst. Superior Técnico
Vasconcelos, José Fernandes		Inst. Superior Técnico
Silvestre, Carlos		Inst. Superior Técnico
Oliveira, Paulo Jorge		Inst. Superior Técnico
17:20-17:40		ThC18.5
<i>A Probabilistic Observer for Visual Tracking</i> , pp. 4558-4563.		
Ndiour, Ibrahima J.		Georgia Inst. of Tech.
Arif, Omar		Georgia Inst. of Tech.
Teizer, Jochen		Georgia Inst. of Tech.
Vela, Patricio A.		Georgia Inst. of Tech.
17:40-18:00		ThC18.6
<i>Optimal Estimation Applied to Visual Contour Tracking</i> , pp. 4564-4569.		
Ndiour, Ibrahima J.		Georgia Inst. of Tech.
Vela, Patricio A.		Georgia Inst. of Tech.

ThC19		Dover A
Automotive Suspensions (Regular Session)		
Chair: Koch, Guido		Tech. Univ. München
Co-Chair: Spelta, Cristiano		Univ. degli studi di Bergamo
16:00-16:20		ThC19.1
<i>Networked Embedded Generalized Predictive Controller for an Active Suspension System</i> , pp. 4570-4575.		
Shoukry, Yasser		Ain Shams Univ.
El-Shafey, Mohamed		Ain Shams Univ.
Hammad, Sherif		Ain Shams Univ.
16:20-16:40		ThC19.2
<i>A Nonlinear Estimator Concept for Active Vehicle Suspension Control</i> , pp. 4576-4581.		

Koch, Guido	Tech. Univ. München
Kloiber, Tobias	Tech. Univ. München
Pellegrini, Enrico	Tech. Univ. München
Lohmann, Boris	Tech. Univ. München
16:40-17:00	ThC19.3
<i>A Novel Control Strategy for Semi-Active Suspensions with Variable Damping and Stiffness (I)</i> , pp. 4582-4587.	
Previdi, Fabio	Univ. degli Studi di Bergamo
Spefta, Cristiano	Univ. degli studi di Bergamo
Savaresi, Sergio M.	Pol. Di Milano
Bolzern, Paolo	Pol. di Milano
Cutini, Maurizio	CRA-ING
Bisaglia, Carlo	CRA-ING
17:00-17:20	ThC19.4
<i>Experimental Validation of a Truck Roll Model Using Asynchronous Measurements with Low Signal-To-Noise Ratios</i> , pp. 4588-4593.	
Evers, Willem-Jan	Eindhoven Univ. of Tech.
Besselink, Igo	Eindhoven Univ. of Tech.
Teerhuis, Arjan	TNO Automotive
Oomen, Tom	Eindhoven Univ. of Tech.
Nijmeijer, Hendrik	Eindhoven Univ. of Tech.
17:20-17:40	ThC19.5
<i>Using Lead Vehicle Response to Generate Preview Functions for Active Suspension of Convoy Vehicles</i> , pp. 4594-4600.	
Adibi asl, Hadi	Memorial Univ. of NL
Rideout, Donald Geoffrey	Memorial Univ. of Newfoundland

ThC20	Dover B
Multivehicle Systems II (Regular Session)	
Chair: Ren, Wei	Utah State Univ.
Co-Chair: Paley, Derek A.	Univ. of Maryland
16:00-16:20	ThC20.1
<i>Synthesis of Pseudo GPS Coordinates with Real Data Image Capture for Vehicular System</i> , pp. 4601-4603.	
Bhavsar, Tapan	NJIT
Chang, Timothy N.	New Jersey Inst. of Tech.
Daniel, Janice	New Jersey Inst. of Tech.
Chow, Mo-Yuen	Army Res. Office/North Carolina State Univ.
16:20-16:40	ThC20.2
<i>Multi-Vehicle Coordinated Motion Via Stabilization of Time-Varying Sets</i> , pp. 4604-4609.	
Nersesov, Sergey G.	Villanova Univ.
Ghorbanian, Parham	Villanova Univ.
Aghdam, Amir G.	Concordia Univ.
16:40-17:00	ThC20.3
<i>Decentralized Finite-Time Sliding Mode Estimators with Applications to Formation Tracking</i> , pp. 4610-4615.	
Cao, Yongcan	Utah State Univ.
Ren, Wei	Utah State Univ.
Meng, Ziyang	Tsinghua Univ.
17:00-17:20	ThC20.4
<i>Design and Field Testing of a Cooperative Adaptive Cruise Control System</i> , pp. 4616-4621.	
Bu, Fanping	Univ. of California at Berkeley
Tan, Han-Shue	Univ. of California at Berkeley
Huang, Jihua	UC Berkeley
17:20-17:40	ThC20.5
<i>On the Optimal Localized Feedback Design for Vehicular Platoons</i> , pp. 4622-4627.	
Lin, Fu	Univ. of Minnesota
Fardad, Makan	Syracuse Univ.
Jovanovic, Mihailo	Univ. of Minnesota
17:40-18:00	ThC20.6
<i>Critical Damping in a Kinetic Interaction Network</i> , pp. 4628-4633.	
Paley, Derek A.	Univ. of Maryland
Baharani, Ajay	Univ. of Maryland

ThC21	Dover C
Application of LPV Control Methods (Invited Session)	
Chair: Mohammadpour, Javad	Univ. of Houston
Co-Chair: Farhood, Mazen	Virginia Tech.
Organizer: Mohammadpour, Javad	Univ. of Houston
Organizer: Farhood, Mazen	Virginia Tech.
16:00-16:20	ThC21.1
<i>Robust Fueling Strategy for an SI Engine Modeled As an Linear Parameter Varying Time-Delayed System (I)</i> , pp. 4634-4639.	
Zope, Rohit	Univ. of Houston
Mohammadpour, Javad	Univ. of Houston
Grigoriadis, Karolos M.	Univ. of Houston

Franchek, Matthew A.	Univ. of Houston
16:20-16:40	ThC21.2
<i>Active and Passive Fault-Tolerant LPV Control of Wind Turbines (I)</i> , pp. 4640-4646.	
Sloth, Christoffer	Aalborg Univ.
Esbensen, Thomas	Aalborg Univ.
Stoustrup, Jakob	Aalborg Univ.
16:40-17:00	ThC21.3
<i>LPV Fault Estimation and FTC of a Two-Link Manipulator (I)</i> , pp. 4647-4652.	
Patton, Ron J.	Univ. of Hull
Klinkhieo, Supat	Synchrotron Light Res. Inst. (SLRI)
17:00-17:20	ThC21.4
<i>An LPV Control Approach for Semi-Active Suspension Control with Actuator Constraints (I)</i> , pp. 4653-4658.	
Do, Anh Lam	Grenoble INP
Sename, Olivier	Grenoble Inst. of Tech.
Dugard, Luc	CNRS-Grenoble INP
17:20-17:40	ThC21.5
<i>LPV Gain-Scheduling Control of an Electromechanically Driven Landing Gear for a Commercial Aircraft (I)</i> , pp. 4659-4664.	
Lüdders, Hauke Peer	Hamburg Univ. of Tech.
Abbas, Hossam Seddik	Hamburg Univ. of Tech.
Doberstein, Dennis	Hamburg Univ. of Tech.
Thielecke, Frank	Hamburg Univ. of Tech.
Werner, Herbert	Hamburg Univ. of Tech.
17:40-18:00	ThC21.6
<i>Trajectory Regulation of a Double Pendulum Using a Nonstationary LPV Approach (I)</i> , pp. 4665-4670.	
Farhood, Mazen	Virginia Tech.

ThC22	Laurel D
Robust Control (Regular Session)	
Chair: Alamo, Teodoro	Univ. de Sevilla
Co-Chair: Peres, Pedro L. D.	Univ. of Campinas
16:00-16:20	ThC22.1
<i>On the Sample Complexity of Randomized Approaches to the Analysis and Design under Uncertainty</i> , pp. 4671-4676.	
Alamo, Teodoro	Univ. de Sevilla
Tempo, Roberto	Pol. di Torino
Luque, Amalia	Univ. of Sevilla
16:20-16:40	ThC22.2
<i>Robust H-Infinity Static Output-Feedback Design for Time-Invariant Discrete-Time Polytopic Systems from Parameter-Dependent State-Feedback Gains</i> , pp. 4677-4682.	
Agulhari, Cristiano Marcos	Univ. of Campinas
Oliveira, Ricardo C. L. F.	Univ. of Campinas
Peres, Pedro L. D.	Univ. of Campinas
16:40-17:00	ThC22.3
<i>Mixed LMI/Randomized Methods for Static Output Feedback Control Design</i> , pp. 4683-4688.	
Arzelier, Denis	LAAS-CNRS
Gryazina, Elena	Inst. for Control Sciences RAS
Peaucelle, Dimitri	LAAS-CNRS, Univ. de Toulouse
Polyak, Boris T.	Moscow Inst. of Control Sciences
17:00-17:20	ThC22.4
<i>On the Robust Control of Continuous-Time Markov Jump Linear Systems Subject to Block-Diagonal Uncertainty</i> , pp. 4689-4694.	
Todorov, Marcos	LNCC
Fragoso, Marcelo	LNCC / MCT
17:20-17:40	ThC22.5
<i>Robust Control of Nonlinear Uncertain Systems Via Second Order Sliding Mode with Backstepping Design</i> , pp. 4695-4700.	
Benayache, Rabia	Univ. de Picardie Jules Verne
Chrifi Alaoui, Larbi	UPJV - IUT de l'Aisne
Bussy, Pascal	UPJV
Dovifaaz, Xavier	CRAN
Anouar, Benamor	Univ. de monastir
17:40-18:00	ThC22.6
<i>Towards Robust Recursive Nonlinear Control with Constraints for a Class of Dynamical Systems</i> , pp. 4701-4706.	
Teodorescu, Catalin-Stefan	Paris-Sud 11 Univ.
Siguerdidjane, Houria	Supelec
Olaru, Sorin	Supelec

FrSP1	Grand Ballroom V
Cooperative Control and Mobile Sensor Networks in the Ocean (Semiplenary Session)	
Chair: Braatz, Richard D.	Univ. of Illinois, Urbana-Champaign
Co-Chair: Allgower, Frank	Univ. of Stuttgart
08:00-09:00	FrSP1.1

FrSP2 Grand Ballroom VI

Bisimulation: From Differential Equations to Finite-State Machines and Back (Semiplenary Session)

Chair: Khalil, Hassan K. Michigan State Univ.
Co-Chair: Masada, Glenn Y. Univ. of Texas at Austin

08:00-09:00 FrSP2.1

*Bisimulation: From Differential Equations to Finite-State Machines and Back**.  Tabuada, Paulo

Univ. of California at Los Angeles

FrA01 Harborside Ballroom A

Model Predictive Control I (Regular Session)

Chair: Cannon, Mark Univ. of Oxford
Co-Chair: Chachuat, Benoît McMaster Univ.

09:20-09:40 FrA01.1

On the Design of Reconfigurable Two Layer Hierarchical Control Systems with MPC, pp. 4707-4712.

De Vito, Daniele Pol. di Milano
Picasso, Bruno Pol. di Milano
Scattolini, Riccardo Pol. di Milano

09:40-10:00 FrA01.2

Low-Complexity Polynomial Approximation of Explicit MPC Via Linear Programming, pp. 4713-4718.

Kvasnica, Michal Slovak Univ. of Tech. in Bratislava
Löfberg, Johan Linköpings Univ.
Herceg, Martin Slovak Univ. of Tech. in Bratislava
Cirka, Lubos Slovak Univ. of Tech. in Bratislava
Fikar, Miroslav Slovak Univ. of Tech. in Bratislava

10:00-10:20 FrA01.3

Event-Triggered Control for Discrete-Time Systems, pp. 4719-4724.

Eqtami, Alina National Tech. Univ. of Athens
Dimarogonas, Dimos V. Massachusetts Inst. of Tech.
Kyriakopoulos, Kostas J. National Tech. Univ. of Athens

10:20-10:40 FrA01.4

A Line Search Improvement of Efficient MPC, pp. 4725-4730.

Kouvaritakis, Basil Oxford Univ.
Li, Shuang Beijing Inst. of Tech.
Cannon, Mark Univ. of Oxford

10:40-11:00 FrA01.5

Using Laguerre Functions to Improve Efficiency of Multi-Parametric Predictive Control, pp. 4731-4736.

Valencia-Palomo, Guillermo Univ. of Sheffield
Rossiter, J. Anthony Univ. of Sheffield

11:00-11:20 FrA01.6

High-Speed Online MPC Based on a Fast Gradient Method Applied to Power Converter Control, pp. 4737-4743.

Richter, Stefan ETH Zurich
Mariethoz, Sebastien ETH Zurich
Morari, Manfred ETH Zurich

FrA02 Harborside Ballroom B

Swarm Tracking (Regular Session)

Chair: Ren, Wei Utah State Univ.
Co-Chair: Esposito, Joel US Naval Acad.

09:20-09:40 FrA02.1

Distributed Coordinated Tracking Via a Variable Structure Approach - Part I: Consensus Tracking, pp. 4744-4749.

Cao, Yongcan Utah State Univ.
Ren, Wei Utah State Univ.

09:40-10:00 FrA02.2

Distributed Coordinated Tracking Via a Variable Structure Approach - Part II: Swarm Tracking, pp. 4750-4755.

Cao, Yongcan Utah State Univ.
Ren, Wei Utah State Univ.

10:00-10:20 FrA02.3

Multi-Agent Coordination with Cohesion, Dispersion, and Containment Control, pp. 4756-4761.

Chen, Fei Utah State Univ.
Ren, Wei Utah State Univ.
Lin, Zongli Univ. of Virginia

10:20-10:40 FrA02.4

Decentralized Cooperative Manipulation with a Swarm of Mobile Robots: The Approach Problem, pp. 4762-4767.

Esposito, Joel US Naval Acad.

10:40-11:00 FrA02.5

Order Formations in Multi-Agent Search Problem: A Game Theoretic Approach, pp. 4768-4773.

Saito, Mamoru	Sony Corp.
Hatanaka, Takeshi	Tokyo Inst. of Tech.
Fujita, Masayuki	Tokyo Inst. of Tech.
11:00-11:20	FrA02.6
<i>Kalman Filter for Inhomogeneous Population Markov Chains with Application to Stochastic Recruitment Control of Muscle Actuators</i> , pp. 4774-4781.	
Odhner, Lael	Yale Univ.
Asada, H. Harry	Massachusetts Inst. of Tech.

FrA03	Harborside Ballroom D
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Adaptive Control VII (Regular Session)	
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Chair: Hoagg, Jesse B.	Univ. of Michigan
Co-Chair: Gazi, Veysel	TOBB Univ. of Ec. and Tech.

09:20-09:40	FrA03.1
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<i>Selective Input Adaptation in Parametric Optimal Control Problems Involving Terminal Constraints</i> , pp. 4782-4787.	
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Deshpande, Saurabh	École Pol. Fédérale de Lausanne
Bonvin, Dominique	EPFL
Chachuat, Benoît	McMaster Univ.

09:40-10:00	FrA03.2
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<i>Robust Fuzzy Tracking Control for a Class of Perturbed Non-Square Nonlinear Systems</i> , pp. 4788-4793.	
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Aloui, Sinda	National engineering school tunisia
Pages, Olivier	Univ. of Picardie Jules Verne
El Hajjaji, Ahmed	Univ. de Picardie-Jules Verne
Chaari, Abdessattar	National engineering school tunisia
Koubaa, Yassine	ENIS Sfax

10:00-10:20	FrA03.3
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<i>Multi-Agent Deployment Around a Source in One Dimension by Extremum Seeking</i> , pp. 4794-4799.	
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Ghods, Nima	Univ. of California, San Diego
Krstic, Miroslav	Univ. of California at San Diego

10:20-10:40	FrA03.4
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<i>Adaptive Internal Model Based Formation Control of a Class of Multi-Agent Systems</i> , pp. 4800-4805.	
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Gül, Esma	TOBB Univ. of Ec. and Tech.
Gazi, Veysel	TOBB Univ. of Ec. and Tech.

10:40-11:00	FrA03.5
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<i>Adaptive Road-Following Preview Control Using Radius of Curvature Data</i> , pp. 4806-4811.	
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Sumer, Dogan	Univ. of Michigan - Ann Arbor
Lu, Jianbo	Ford Motor Company
Filev, Dimitre P.	Ford Motor Company
Hoagg, Jesse B.	Univ. of Michigan
Bernstein, Dennis S.	Univ. of Michigan

11:00-11:20	FrA03.6
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<i>Hybrid Retrospective-Cost-Based Adaptive Control Using Concurrent Parameter Estimation</i> , pp. 4812-4817.	
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D'Amato, Anthony	Univ. of Michigan
Hoagg, Jesse B.	Univ. of Michigan
Bernstein, Dennis S.	Univ. of Michigan

FrA04	Harborside Ballroom E
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Switched Systems V (Regular Session)	
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Chair: Najson, Federico	Univ. de la República
Co-Chair: Lee, Ji-Woong	Pennsylvania State Univ.

09:20-09:40	FrA04.1
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<i>Computationally Efficient State-Feedback Stabilizability Determination in Switched Linear Systems with Rank-One Modes</i> , pp. 4818-4820.	
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Najson, Federico	Univ. de la República
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09:40-10:00	FrA04.2
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<i>Equivalent Conditions for Uniform Asymptotic Consensus among Distributed Agents</i> , pp. 4821-4826.	
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Ghosh, Supratim	The Pennsylvania State Univ.
Lee, Ji-Woong	Pennsylvania State Univ.

10:00-10:20	FrA04.3
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<i>Stability Analysis for Interconnected Piecewise Linear Planar Systems</i> , pp. 4827-4832.	
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Nishiyama, Satoshi	Tokyo Inst. of Tech.
Hayakawa, Tomohisa	Tokyo Inst. of Tech.

10:20-10:40	FrA04.4
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<i>On Efficient Sensor Scheduling for Linear Dynamical Systems</i> , pp. 4833-4838.	
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Vitus, Michael P.	Stanford Univ.
Zhang, Wei	Univ. of California at Berkeley
Abate, Alessandro	TU Delft
Hu, Jianghai	Purdue Univ.
Tomlin, Claire J.	UC Berkeley

10:40-11:00	FrA04.5
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Adaptive Output Feedback Control of Nonlinear Systems with Nonlinear Parameterization: A Dwell-Time-Switching Based Multiple Model Adaptive Control Approach, pp. 4839-4844.

Chen, Wei-tian
Anderson, Brian D.O.

Australian National Univ.
Australian National Univ.

FrA05 Essex A

Optimization II (Regular Session)

Chair: Martinez, Sonia

Univ. of California at San Diego

Co-Chair: Waslander, Steven L.

Univ. of Waterloo

09:20-09:40

FrA05.1

Spiral Bacterial Foraging Optimization Method, pp. 4845-4850.

Kasaiezadeh, Alireza

Univ. of Waterloo

Khajepour, Amir

Univ. of Waterloo

Waslander, Steven L.

Univ. of Waterloo

09:40-10:00

FrA05.2

A Parallel-Computing Solution for Optimization of Polynomials, pp. 4851-4856.

Peet, Matthew M.

Illinois Inst. of Tech.

Peet, Yulia

Angonne National Lab.

10:00-10:20

FrA05.3

Two Player Statistical Game with Higher Order Cumulants, pp. 4857-4862.

Lee, Jong-Ha

Temple Univ.

Won, Chang-Hee

Temple Univ.

Diersing, Ronald

Univ. of Southern Indiana

10:20-10:40

FrA05.4

On Distributed Optimization under Inequality Constraints Via Lagrangian Primal-Dual Methods, pp. 4863-4868.

Zhu, Minghui

Univ. of California, San Diego

Martinez, Sonia

Univ. of California at San Diego

10:40-11:00

FrA05.5

Reliable Dynamical Systems for Canonical Variate Computation, pp. 4869-4874.

Hasan, Mohammed A.

Univ. of Minnesota

11:00-11:20

FrA05.6

Convex Nondifferentiable Stochastic Optimization: A Local Randomized Smoothing Technique, pp. 4875-4880.

Yousefian, Farzad

Univ. of Illinois at Urbana-Champaign

Nedich, Angelia

Univ. of Illinois, Urbana-Champaign

Shanbhag, Uday V.

Univ. of Illinois, Urbana-Champaign

FrA06 Essex B

Estimation and Control of DPS 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: Armaou, Antonios

The Pennsylvania State Univ.

09:20-09:40

FrA06.1

Balanced POD Algorithm for Robust Control Design for Linear Distributed Parameter Systems (I), pp. 4881-4886.

Singler, John

Missouri Univ. of Science and Tech.

Batten, Belinda A.

Oregon State Univ.

09:40-10:00

FrA06.2

Semidiscrete Approximation and Renorming in Control of Distributed Parameter Systems (I), pp. 4887-4892.

Fabiano, Richard H.

Univ. of North Carolina at Greensboro

10:00-10:20

FrA06.3

Sensitivities and Functional Gains for a Flexible Aircraft-Inspired Model (I), pp. 4893-4898.

Chakravarthy, Animesh

Univ.

Evans, Katie

Louisiana Tech. Univ.

Evers, Johnny

US Air Force

10:20-10:40

FrA06.4

Using H2-Control Metrics for the Optimal Actuator Location of Infinite-Dimensional Systems (I), pp. 4899-4904.

Morris, Kirsten

Univ. of Waterloo

Demetriou, Michael A.

Worcester Pol. Inst.

10:40-11:00

FrA06.5

On Recursive Proper Orthogonal Decomposition Via Perturbation Theory with Applications to Distributed Sensing in Cyber-Physical

Systems (I), pp. 4905-4910.

Xu, Chao

Lehigh Univ.

Luo, Lixiang

Lehigh Univ.

Schuster, Eugenio

Lehigh Univ.

11:00-11:20

FrA06.6

On the Connection between Balanced Proper Orthogonal Decomposition, Balanced Truncation, and Metric Complexity Theory for Infinite Dimensional Systems (I), pp. 4911-4916.

Djouadi, Seddik, M.

Univ. of Tennessee

FrA07	Essex C
Artificial Neural Networks (Regular Session)	
Chair: Chen, Lei	Adelaide Univ.
Co-Chair: Hassapis, George	Aristotle Univ. of Thessaloniki
09:20-09:40	FrA07.1
<i>A Design Approach for Feedback-Feedforward Control Systems</i> , pp. 4917-4918.	
Mohammadzaheri, Morteza	Univ. of Adelaide
Chen, Lei	Adelaide Univ.
09:40-10:00	FrA07.2
<i>Stabilizing Control of a Class of Unknown Nonlinear Systems Using Dynamic Neural Networks</i> , pp. 4919-4924.	
Farid, Farshad	Whirlpool Corp.
Pourboghrat, Farzad	Southern Illinois Univ.
10:00-10:20	FrA07.3
<i>H-Infinity Neural Network Adaptive Control</i> , pp. 4925-4930.	
Muse, Jonathan	Georgia Inst. of Tech.
Calise, Anthony J.	Georgia Inst. of Tech.
10:20-10:40	FrA07.4
<i>Identification Algorithm for Standard Continuous Piecewise Linear Neural Network</i> , pp. 4931-4936.	
Huang, Xiaolin	Tsinghua Univ.
Xu, Jun	Tsinghua Univ.
Wang, Shuning	Tsinghua Univ.
10:40-11:00	FrA07.5
<i>Adaptive Recurrent Neural Network Training Algorithm for Nonlinear Model Identification Using Supervised Learning</i> , pp. 4937-4942.	
Akpan, Vincent Andrew	Aristotle Univ. of Thessaloniki
Hassapis, George	Aristotle Univ. of Thessaloniki
11:00-11:20	FrA07.6
<i>Stability of Switched Hopfield Neural Networks with Time-Varying Delay</i> , pp. 4943-4948.	
Zhang, Kai	Dalian Univ. of Tech.
Lian, Jie	Dalian Univ. of Tech.
Sun, Xi-Ming	Dalian Univ. of Tech.
Wang, Dong	Dalian Univ. of Tech.
FrA08	Laurel A
Nanopositioning and Scanning Probe Systems (Invited Session)	
Chair: Fleming, Andrew J.	Univ. of Newcastle
Co-Chair: Chang, Timothy N.	New Jersey Inst. of Tech.
Organizer: Abramovitch, Daniel Y.	Agilent Lab.
Organizer: Clayton, Garrett	Villanova Univ.
Organizer: Fleming, Andrew J.	Univ. of Newcastle
Organizer: Leang, Kam K.	Univ. of Nevada, Reno
Organizer: Pao, Lucy Y.	Univ. of Colorado at Boulder
Organizer: Zou, Qingze	Iowa State Univ.
09:20-09:40	FrA08.1
<i>Design, Characterization, and Control of a Monolithic Three-Axis High-Bandwidth Nanopositioning Stage (I)</i> , pp. 4949-4956.	
Kenton, Brian J.	Univ. of Nevada, Reno
Leang, Kam K.	Univ. of Nevada, Reno
09:40-10:00	FrA08.2
<i>A 12-Electrode Piezoelectric Tube Scanner for Fast Atomic Force Microscopy (I)</i> , pp. 4957-4962.	
Yong, Yuen Kuan	The Univ. of Newcastle
Araïn, Bilal Ahmed	UNSW@ADFA
Moheimani, S.O. Reza	Univ. of Newcastle
10:00-10:20	FrA08.3
<i>Passive Shunt Damping of a Piezoelectric Stack Nanopositioner (I)</i> , pp. 4963-4968.	
Eielsen, Arnfinn Aas	Norwegian Univ. of Science and Tech.
Fleming, Andrew J.	Univ. of Newcastle
10:20-10:40	FrA08.4
<i>High Speed Nanopositioning with Force Feedback (I)</i> , pp. 4969-4974.	
Fleming, Andrew J.	Univ. of Newcastle
10:40-11:00	FrA08.5
<i>Ultra-Fast Dual-Stage Vertical Positioning for High Performance SPMs (I)</i> , pp. 4975-4980.	
Fleming, Andrew J.	Univ. of Newcastle
Kenton, Brian J.	Univ. of Nevada, Reno
Leang, Kam K.	Univ. of Nevada, Reno
11:00-11:20	FrA08.6
<i>A Nonlinear Approach to Tracking Single Nanometer-Scale Fluorescent Particles (I)</i> , pp. 4981-4986.	
Andersson, Sean	Boston Univ.
FrA09	Laurel B
Time Delay Systems I (Regular Session)	

Chair: Sipahi, Rifat	Northeastern Univ.
Co-Chair: Watkins, John	Wichita State Univ.
09:20-09:40	FrA09.1
<i>Model Matching Control for MIMO Systems with Multiple Time Delays and Its Applications in Adaptive Scheme</i> , pp. 4987-4992.	
Su, Haixia	Beihang Univ.
Jia, Yingmin	Beihang Univ.
Du, Junping	Beijing Univ. of Posts and Telecommunications
Yu, Fashan	Henan Pol. Univ.
09:40-10:00	FrA09.2
<i>Delay-Dependent Robust Stability Analysis for Systems with Interval Delays</i> , pp. 4993-4998.	
Orihuela, Luis	Univ. de Sevilla
Millan, Pablo	Univ. de Sevilla
Vivas, Carlos	Univ. De Sevilla
Rubio, Francisco R.	Univ. de Sevilla
10:00-10:20	FrA09.3
<i>Stability Regions in the Parameter Space for a Unified PID Controller</i> , pp. 4999-5005.	
Emami, Tooran	Wichita State Univ.
Lee, Taegyung	WICHITA STATE Univ.
Watkins, John	Wichita State Univ.
10:20-10:40	FrA09.4
<i>On Observer-Based Control System Design with Delayed Data</i> , pp. 5006-5011.	
Friedland, Bernard	New Jersey Inst. of Tech.
10:40-11:00	FrA09.5
<i>Advanced Clustering with Frequency Sweeping (ACFS) Methodology for the Stability Analysis of Multiple Time-Delay Systems</i> , pp. 5012-5017.	
Delice, Ismail Ilker	Northeastern Univ.
Sipahi, Rifat	Northeastern Univ.
11:00-11:20	FrA09.6
<i>Reducing the Computational Cost of the Sum-Of-Squares Stability Test for Time-Delayed Systems</i> , pp. 5018-5023.	
Zhang, Yashun	Nanjing Univ. of Science & Tech.
Peet, Matthew M.	Illinois Inst. of Tech.
Gu, Keqin	Southern Illinois Univ. Edwardsville

FrA10 Laurel C

PHEV and HEV Estimation and Control (Tutorial Session)

Chair: Stefanopoulou, Anna G.	Univ. of Michigan
Co-Chair: Onori, Simona	Ohio State Univ.
Organizer: Onori, Simona	Ohio State Univ.
Organizer: Marano, Vincenzo	The Ohio State Univ.
Organizer: Karnik, Amey	Ford Motor Company
Organizer: Mohammadpour, Javad	Univ. of Houston
Organizer: Wang, Junmin	Ohio State Univ.
09:20-10:00	FrA10.1
<i>Optimal Control for Plug-In Hybrid Electric Vehicle Applications (I)</i> , pp. 5024-5030.	
Stockar, Stephanie	ETH Zurich
Marano, Vincenzo	The Ohio State Univ.
Rizzoni, Giorgio	Ohio State Univ.
Guzzella, Lino	ETH Zurich
10:00-10:20	FrA10.2
<i>Model Predictive Control of a Power-Split Hybrid Electric Vehicle with Combined Battery and Ultracapacitor Energy Storage (I)</i> , pp. 5031-5036.	
Borhan, Hoseinali	Clemson Univ.
Vahidi, Ardalan	Clemson Univ.
10:20-10:40	FrA10.3
<i>Optimal Energy Management for a Plug-In Hybrid Electric Vehicle: Real-Time Controller (I)</i> , pp. 5037-5042.	
Lin, Xiao	Indiana Univ. Univ. Indianapolis
Banvait, Harpreetsingh	IUPUI
Anwar, Sohail	Purdue School of Engr. & Tech.
Chen, Yaobin	Purdue School of Engr and Tech. IUPUI
10:40-11:00	FrA10.4
<i>Battery State of Charge Estimation in Automotive Applications Using LPV Techniques (I)</i> , pp. 5043-5049.	
Hu, Yiran	Ohio State Univ.
Yurkovich, Stephen	The Ohio State Univ.
11:00-11:20	FrA10.5
<i>Cell Equalization in Battery Stacks through State of Charge Estimation Polling (I)</i> , pp. 5050-5055.	
Speltino, Carmelo	Univ. del Sannio BN Italy
Stefanopoulou, Anna G.	Univ. of Michigan
Fiengo, Giovanni	Univ. degli Studi del Sannio

FrA11		Grand Ballroom I
Control Applications IV (Regular Session)		
Chair: Yedavalli, Rama K. Co-Chair: Stefanovic, Margareta		Ohio State Univ. Univ. of Wyoming
09:20-09:40		FrA11.1
<i>Robust Adaptive Control of Surge Instability in a Centrifugal Compressor with Variable Speed</i> , pp. 5056-5061.		
Darogheh, Najmeh Jahed Motlagh, Mohammad Reza Beheshti, Mohammad T. H.	Iranian National Petrochemical, Khorasan Petrochemical Complex	Iran Univ. of Science and Tech. Univ. of Tarbiat Modares
09:40-10:00		FrA11.2
<i>Engineering Perspective of Ecological Sign Stability and Its Application in Control Design</i> , pp. 5062-5067.		
Devarakonda, Nagini Yedavalli, Rama K.		The Ohio State Univ. Ohio State Univ.
10:00-10:20		FrA11.3
<i>Natural Entrainment of Collocated Mechanical Systems Via Decentralized Multi-Agent Feedback</i> , pp. 5068-5073.		
Futakata, Yoshiaki Iwasaki, Tetsuya		The Univ. of Tokyo UCLA
10:20-10:40		FrA11.4
<i>Velocity Trajectory Optimization in Hybrid Electric Trucks</i> , pp. 5074-5079.		
van Keulen, Thijs de Jager, Bram Foster, Darren Steinbuch, Maarten		Eindhoven Univ. of Tech. Tech. Univ. Eindhoven TNO Science and Industry Eindhoven Univ. of Tech.
10:40-11:00		FrA11.5
<i>Cross Entropy Accelerated Ant Routing in Satellite Networks</i> , pp. 5080-5087.		
Cao, Jinhua Stefanovic, Margareta		Univ. of Wyoming Univ. of Wyoming
11:00-11:20		FrA11.6
<i>Simulation Study to Control Solids Flow Rate in a Pilot Scale Cold Flow Circulating Fluidized Bed</i> , pp. 5088-5093.		
Panday, Rupen Woerner, Brian D Shadle, Lawrence Ludlow, James C Worstell, Todd	REM Engineering Services PLLC WVU National Energy and Tech. Lab. NETL Parsons, NETL	
FrA12		Grand Ballroom II
Green Buildings (Regular Session)		
Chair: Alleyne, Andrew G. Co-Chair: Mehta, Prashant G.		Univ. of Illinois, Urbana-Champaign Univ. of Illinois, Urbana-Champaign
09:20-09:40		FrA12.1
<i>Regenerative Semi-Active Control of Tall Building Vibration with Series TMDs</i> , pp. 5094-5099.		
Zuo, Lei		State Univ. of New York at Stony Brook
09:40-10:00		FrA12.2
<i>Energy Efficient Building Climate Control Using Stochastic Model Predictive Control and Weather Predictions</i> , pp. 5100-5105.		
Oldewurtel, Frauke Parisio, Alessandra Jones, Colin Neil Morari, Manfred Gyalistras, Dimitrios Gwerder, Markus Stauch, Vanessa Lehmann, Beat Wirth, Katharina		ETH Zurich Univ. del Sannio ETH Zurich ETH Zurich ETH Zurich Siemens Building Tech. Federal Inst. for Meteorology and Climatology MeteoSwiss Empa, Swiss Federal Lab. for Materials Testing and Res. Building Tech. Lab. EMPA
10:00-10:20		FrA12.3
<i>Model Predictive Control for the Operation of Building Cooling Systems</i> , pp. 5106-5111.		
Ma, Yudong Borrelli, Francesco Hencey, Brandon Coffey, Brian Bengea, Sorin C. Haves, Philip		UC Berkeley CA USA University of California at Berkeley Cornell Univ. UC Berkeley United Tech. Res. Center LBNL
10:20-10:40		FrA12.4
<i>Predictive Control of Complex Hydronic Systems</i> , pp. 5112-5117.		
Chandan, Vikas Mishra, Sandipan Alleyne, Andrew G.		Univ. of Illinois Univ. of Illinois Univ. of Illinois, Urbana-Champaign
10:40-11:00		FrA12.5
<i>Building Thermal Model Reduction Via Aggregation of States</i> , pp. 5118-5123.		
Deng, Kun		Univ. of Illinois, Urbana-Champaign

Barooah, Prabir	Univ. of Florida
Mehta, Prashant G.	Univ. of Illinois, Urbana-Champaign
Meyn, Sean	Univ. of Illinois
11:00-11:20	FrA12.6
<i>A New Escape Routing Strategy for Controlling Evacuation from Buildings</i> , pp. 5124-5130.	
Pizzileo, Barbara	Pol. di Bari
Lino, Paolo	Pol. di Bari
Maione, Guido	Pol. di Bari
Maione, Bruno	Pol. di Bari

FrA13 Grand Ballroom III
Systems Analysis in Biology and Medicine (Invited Session)

Chair: Parker, Robert S.	Univ. of Pittsburgh
Co-Chair: Hahn, Juergen	Texas A&M Univ.
Organizer: Parker, Robert S.	Univ. of Pittsburgh
Organizer: Hahn, Juergen	Texas A&M Univ.
09:20-09:40	FrA13.1
<i>Derivation of Simplified Signal Transduction Pathway Models: Application to IL-6 Signaling (I)</i> , pp. 5131-5136.	
Huang, Zuyi (Jacky)	Texas A&M Univ.
Chu, Yunfei	Texas A&M Univ.
Hahn, Juergen	Texas A&M Univ.
09:40-10:00	FrA13.2
<i>Estimating Seasonal Drivers in Childhood Infectious Diseases with Continuous Time and Discrete-Time Models (I)</i> , pp. 5137-5142.	
Word, Daniel P.	Texas A&M Univ.
Abbott III, George H.	Texas A&M Univ.
Cummings, Derek A.	Johns Hopkins Bloomberg School of Public Health
Laird, Carl Damon	Texas A&M Univ.
10:00-10:20	FrA13.3
<i>Designing Experiments from Noisy Metabolomics Data to Refine Constraint-Based Models (I)</i> , pp. 5143-5148.	
Yang, Laurence	Univ. of Toronto
Mahadevan, Radhakrishnan	Univ. of Toronto
Cluett, William R.	Univ. of Toronto
10:20-10:40	FrA13.4
<i>A Comparison of Clinical Control Strategies for the Hyperglycemia of Injury and Illness (I)</i> , pp. 5149-5154.	
Borrello, Michael A.	Luminous Medical
Bequette, B. Wayne	Rensselaer Pol. Inst.
Sun, Jing	Rensselaer Pol. Inst.
10:40-11:00	FrA13.5
<i>Modeling-Error Robustness of a Viral-Load Preconditioning Strategy for HIV Treatment Switching (I)</i> , pp. 5155-5160.	
Luo, Rutao	Univ. of Delaware
Piovoso, Michael J.	Penn State Great Valley School
Zurkowski, Ryan	Univ. of Delaware
11:00-11:20	FrA13.6
<i>Phenomenological Model of Plasma FFA, Glucose, and Insulin Concentrations During Rest and Exercise (I)</i> , pp. 5161-5166.	
Roy, Anirban	Univ. of Pittsburgh
Parker, Robert S.	Univ. of Pittsburgh

FrA14 Grand Ballroom IV
Constrained Control (Regular Session)

Chair: Gomes Da Silva Jr., Joao Manoel	Univ. Federal do Rio Grande do Sul
Co-Chair: Sideris, Athanasios	Univ. of California at Irvine
09:20-09:40	FrA14.1
<i>A Riccati Approach to Equality Constrained Linear Quadratic Optimal Control</i> , pp. 5167-5172.	
Sideris, Athanasios	Univ. of California at Irvine
Rodriguez, Luis Alberto	Univ. of California Irvine
09:40-10:00	FrA14.2
<i>A Control Strategy for a Class of Cascade Systems Including Saturation Elements</i> , pp. 5173-5178.	
Giri, Fouad	Univ. de Caen
Chater, El Ayachi	LAI, EMI
Gning, Jean-Baptiste	Univ. of Caen
Chaoui, F.Z.	ENSET
Haloua, Mohamed	EMI
10:00-10:20	FrA14.3
<i>Asymptotic and L2 Stability Analysis for a Class of Nonlinear Discrete-Time Control Systems Subject to Actuator Saturation</i> , pp. 5179-5184.	
Zardo Oliveira, Mauricio	UFRGS
Gomes Da Silva Jr., Joao Manoel	Univ. Federal do Rio Grande do Sul
Coutinho, Daniel Ferreira	Pont. Univ. Catolica do Rio Grande
10:20-10:40	FrA14.4
<i>State Admissible Sets for Discrete Systems under Delay Constraints</i> , pp. 5185-5190.	

Lombardi, Warody	Supélec
Luca, Anamaria	SUPELEC
Olaru, Sorin	Supelec
Niculescu, Silviu-Iulian	CNRS-Supelec
10:40-11:00	FrA14.5
<i>On Constructing Constrained Control Lyapunov Functions for Linear Systems</i> , pp. 5191-5196.	
Mahmood, Maaz	McMaster Univ.
Mhaskar, Prashant	McMaster Univ.
11:00-11:20	FrA14.6
<i>An Active Set Method for Constrained Linear Quadratic Optimal Control</i> , pp. 5197-5202.	
Rodriguez, Luis Alberto	Univ. of California Irvine
Sideris, Athanasios	Univ. of California at Irvine

FrA15	Grand Ballroom VII
Marine Systems I (Tutorial Session)	
Chair: Chalhoub, Nabil G.	Wayne State Univ.
Co-Chair: Ashrafiun, Hashem	Villanova Univ.
09:20-09:40	FrA15.1
<i>Review of Nonlinear Tracking and Setpoint Control Approaches for Autonomous Underactuated Marine Vehicles (I)</i> , pp. 5203-5211.	
Ashrafiun, Hashem	Villanova Univ.
Muske, Kenneth R.	Villanova Univ.
McNinch, Lucas	Villanova Univ.
09:40-10:00	FrA15.2
<i>Sliding Mode Setpoint Control of an Underactuated Surface Vessel: Simulation and Experiment</i> , pp. 5212-5217.	
McNinch, Lucas	Villanova Univ.
Ashrafiun, Hashem	Villanova Univ.
Muske, Kenneth R.	Villanova Univ.
10:00-10:20	FrA15.3
<i>Simplified Modeling Approach to System Identification of Non-Linear Boat Dynamics</i> , pp. 5218-5223.	
Hann, Christopher Eric	Univ. of Canterbury
Sirisena, Harsha Rajaram	Univ. of Canterbury
Wongvanich, Napasool	Univ. of Canterbury
10:20-10:40	FrA15.4
<i>An Electric Ray Inspired Biomimetic Autonomous Underwater Vehicle</i> , pp. 5224-5229.	
Krishnamurthy, Prashanth	Pol. Inst. of NYU
Khorrami, Farshad	Pol. Inst. of NYU
de Leeuw, Josh	Vassar Coll.
Porter, Marianne	Vassar Coll.
Livingston, Ken	Vassar Coll.
Long, John	Vassar Coll.
10:40-11:00	FrA15.5
<i>Guidance and Control Scheme for Under-Actuated Marine Surface Vessels</i> , pp. 5230-5235.	
Khaled, Nassim	wayne state Univ.
Chalhoub, Nabil G.	Wayne State Univ.
11:00-11:20	FrA15.6
<i>Path Following of a Model Ship Using Model Predictive Control with Experimental Verification</i> , pp. 5236-5241.	
Ghaemi, Reza	Univ. of Michigan (Ann Arbor)
Oh, So-ryeok	Univ. of Michigan
Sun, Jing	Univ. of Michigan

FrA16	Grand Ballroom VIII
Robot Control I (Tutorial Session)	
Chair: Lee, Kang Woong	Korea Aerospace Univ.
Co-Chair: Hsu, Liu	COPPE/UFRJ
09:20-10:00	FrA16.1
<i>Control of a Robot Interacting with an Uncertain Viscoelastic Environment with Adjustable Force Bounds (I)</i> , pp. 5242-5247.	
Bhasin, Shubhendu	Univ. of Florida
Patre, Parag	NASA Langley Res. Center
Kan, Zhen	Univ. of Florida
Dixon, Warren E.	Univ. of Florida
10:00-10:20	FrA16.2
<i>Robust Adaptive Control of the Stewart-Gough Robot in the Task Space</i> , pp. 5248-5253.	
Yime, Eugenio	Univ. del Atlantico
Saltaren, Roque	Univ. Pol. de Madrid
Diaz-Gonzalez, James	BMT Designer and Planners Inc
10:20-10:40	FrA16.3
<i>Phase-Plane Based Feedback Scheme for Negative Amplitude Shapers</i> , pp. 5254-5259.	
Dhanda, Abhishek	Stanford Univ.
Franklin, Gene F.	Stanford Univ.

10:40-11:00		FrA16.4
<i>A Cascaded-Based Hybrid Position-Force Control for Robot Manipulators with Nonnegligible Dynamics</i> , pp. 5260-5265.		
Leite, Antonio C.	COPPE - Federal Univ. of Rio de Janeiro	
Lizarralde, Fernando	Federal Univ. of Rio de Janeiro	
Hsu, Liu	COPPE/UFRJ	
11:00-11:20		FrA16.5
<i>Image-Based Robust Control of Robot Manipulators Using Dynamic Compensator</i> , pp. 5266-5271.		
Kim, Chin Su	Korea Aerospace Univ.	
Lee, Kang Woong	Korea Aerospace Univ.	

FrA17		Grand Ballroom IX
Nonlinear Observers I (Regular Session)		
Chair: Goodwin, Graham C.		Univ. of Newcastle
Co-Chair: Marquez, Horacio J.		Univ. of Alberta
09:20-09:40		FrA17.1
<i>An Alternative Approach to the State Observation Problem for Lipschitz Continuous Systems with Controls</i> , pp. 5272-5277.		
Hernandez, Santiago Martin	Inst. Tecnológico de Buenos Aires	
Garcia, Rafael A.	Inst. Tecnológico de Buenos Aires	
09:40-10:00		FrA17.2
<i>Rapprochement between Discrete and Continuous Nonlinear Filtering</i> , pp. 5278-5283.		
Goodwin, Graham C.	Univ. of Newcastle	
Cea, Mauricio	UTFSM	
Feuer, Arie	Tech.	
10:00-10:20		FrA17.3
<i>Nonlinear Observer Design for One-Sided Lipschitz Systems</i> , pp. 5284-5289.		
Abbaszadeh, Masoud	Univ. of Alberta	
Marquez, Horacio J.	Univ. of Alberta	
10:20-10:40		FrA17.4
<i>On the Observer Design through Output Scaling in Discrete-Time</i> , pp. 5290-5295.		
Califano, Claudia	Univ. di Roma	
Monaco, Salvatore	Univ. di Roma	
Normand-Cyrot, Marie-Dorothée	CNRS-Supélec	
10:40-11:00		FrA17.5
<i>State Estimation and Output Feedback Stabilization of a Class of Upper-Triangular Systems Using a Homogeneous Observer</i> , pp. 5296-5301.		
Tian, Weisong	Univ. of Texas at San Antonio	
Qian, Chunjiang	Univ. of Texas at San Antonio	
Jia, Ruting	Univ. of Texas at San Antonio	
Lin, Wei	Case Western Res. Univ.	
11:00-11:20		FrA17.6
<i>Unscented Kalman-Bucy Filtering for Nonlinear Continuous-Time Systems with Multiple Delayed Measurements</i> , pp. 5302-5307.		
Zhou, Yucheng	Chinese Acad. of Forestry	
Xu, Jiahe	Chinese Acad. of Forestry	
Jing, Yuanwei	Northeastern Univ.	
Dimirovski, Georgi M	Dogus Univ. of Istanbul	

FrA18		Grand Ballroom X
Manufacturing Systems (Regular Session)		
Chair: Abdelrahman, Mohamed A.		Tennessee Tech. Univ.
Co-Chair: Boutayeb, Mohamed		Univ. of Henri Poincaré Nancy
09:20-09:40		FrA18.1
<i>Transient Analysis of Dairy Filling and Packing Production Lines</i> , pp. 5308-5313.		
Wang, Junwen	Univ. of Kentucky	
Hu, Yao	Univ. of Kentucky	
Li, Jingshan	Univ. of Kentucky	
09:40-10:00		FrA18.2
<i>A Feature Based Solution to Forward Problem in Electrical Capacitance Tomography</i> , pp. 5314-5319.		
Abdelrahman, Mohamed A.	Tennessee Tech. Univ.	
Gupta, Ankush	Tennessee Tech. Univ.	
Deabes, Wael	Tennessee Tech. Univ.	
10:00-10:20		FrA18.3
<i>Nonlinear Single Step Fuzzy Image Reconstruction Algorithm for Grounded Conductors in ECT</i> , pp. 5320-5325.		
Deabes, Wael	Tennessee Tech. Univ.	
Abdelrahman, Mohamed A.	Tennessee Tech. Univ.	
10:20-10:40		FrA18.4
<i>Achieving Resilience for a Class of Serial Production Networks</i> , pp. 5326-5331.		
Hu, Yao	Univ. of Kentucky	
Li, Jingshan	Univ. of Kentucky	
Holloway, Lawrence E.	Univ. of Kentucky	

10:40-11:00		FrA18.5
<i>Stability Determination in a Class of Manufacturing Systems with Replenishment Signals</i> , pp. 5332-5337.		
	Henninger, John Thomas	Univ. of Kentucky
	Holloway, Lawrence E.	Univ. of Kentucky
11:00-11:20		FrA18.6
<i>An Approximate Modeling of 1D Transient Heat Transfer in a Gray Participating Medium</i> , pp. 5338-5343.		
	Ali, Shaikh Faruque	Swansea Univ.
	Delattre, Cedric	Univ. Henri Poincaré - IUT de Longwy
	Boutayeb, Mohamed	Univ. of Henri Poincaré Nancy
	Fonte, Christophe	CNRS & Nancy-Univ.
	Asllanaj, Fatmir	Univ. of Henri Poincaré, Nancy-1

FrA19		Dover A
Automotive Systems I (Regular Session)		

	Chair: Ulsoy, A. Galip	Univ. of Michigan
	Co-Chair: Wang, Dexin	Ford Motor Company
09:20-09:40		FrA19.1
<i>Data Fusion Algorithms for Lane Departure Warning Systems</i> , pp. 5344-5349.		
	Cario, Gianni	Univ. degli studi della Calabria
	Casavola, Alessandro	Univ. Della Calabria
	Franze', Giuseppe	Univ. Degli Studi della Calabria
	Lupia, Marco	Univ. degli studi della Calabria
09:40-10:00		FrA19.2
<i>Application of Describing Function Technique to Idle Speed Control</i> , pp. 5350-5355.		
	Nassirharand, Amir	Univ. of Nottingham
	Teh, Sze Hong	The Univ. of Nottingham
10:00-10:20		FrA19.3
<i>On a Robust Control System Design for an Electric Power Assist Steering System</i> , pp. 5356-5361.		
	Dong, Lili	Cleveland State Univ.
	Kandula, Prasanth	cleveland state Univ.
	Gao, Zhiqiang	Cleveland State Univ.
	Wang, Dexin	Ford Motor Company
10:20-10:40		FrA19.4
<i>Active Steering Control Based on Piecewise Affine Regions</i> , pp. 5362-5367.		
	Scalzi, Stefano	Univ. of Rome TorVergata
	Benine-Neto, André	LIVIC-LCPC/INRETS
	Netto, Mariana	LIVIC - LCPC/INRETS
	Pasillas-Lepine, William	CNRS, SUPELEC
	Mammar, Said	LSC-CNRS-FRE2494
10:40-11:00		FrA19.5
<i>Direct Optimal Distributed Controller Design for Component Swapping Modularity with Application to ISC</i> , pp. 5368-5373.		
	Li, Shifang	Univ. of Michigan
	Kolmanovsky, Ilya V.	Ford Motor Co.
	Ulsoy, A. Galip	Univ. of Michigan
11:00-11:20		FrA19.6
<i>Optimal Emergency Maneuvers on Highways for Passenger Vehicles with Two and Four-Wheel Active Steering</i> , pp. 5374-5381.		
	Dingle, Patrick	Kiva Systems
	Guzzella, Lino	ETH Zurich

FrA20		Dover B
Path Planning (Regular Session)		

	Chair: Tsiotras, Panagiotis	Georgia Inst. of Tech.
	Co-Chair: Frazzoli, Emilio	Massachusetts Inst. of Tech.
09:20-09:40		FrA20.1
<i>On the Existence and Synthesis of Curvature-Bounded Paths Inside Nonuniform Rectangular Channels</i> , pp. 5382-5387.		
	Cowlagi, Raghvendra	Georgia Inst. of Tech.
	Tsiotras, Panagiotis	Georgia Inst. of Tech.
09:40-10:00		FrA20.2
<i>Kinematic Feasibility Guarantees in Geometric Path Planning Using History-Based Transition Costs Over Cell Decompositions</i> , pp. 5388-5393.		
	Cowlagi, Raghvendra	Georgia Inst. of Tech.
	Tsiotras, Panagiotis	Georgia Inst. of Tech.
10:00-10:20		FrA20.3
<i>LP-Based Path Planning for Target Pursuit and Obstacle Avoidance in 3D Relative Coordinates</i> , pp. 5394-5399.		
	Chen, Yang	Shenyang Inst. of Automation, Chinese Acad. of Sciences
	Han, Jianda	Shenyang Inst. of Automation
10:20-10:40		FrA20.4
<i>Optimal Coherent Phantom Track Design Using Virtual Motion Camouflage</i> , pp. 5400-5405.		
	Xu, Yunjun	Univ. of Central Florida

Basset, Gareth	Univ. of Central Florida
10:40-11:00	FrA20.5
<i>Bounds on Tracking Error Using Closed-Loop Rapidly-Exploring Random Trees</i> , pp. 5406-5412.	
Luders, Brandon	Massachusetts Inst. of Tech.
Karaman, Sertac	Massachusetts Inst. of Tech.
Frazzoli, Emilio	Massachusetts Inst. of Tech.
How, Jonathan P.	MIT
11:00-11:20	FrA20.6
<i>Channel Learning and Communication-Aware Motion Planning in Mobile Networks</i> , pp. 5413-5420.	
Ghaffarkhah, Alireza	Univ. of New Mexico
Mostofi, Yasamin	Univ. of New Mexico

FrA21 Dover C
Fault Detection (Regular Session)

Chair: George, Jemin	SUNY at Buffalo
Co-Chair: Saif, Mehrdad	Simon Fraser Univ.
09:20-09:40	FrA21.1
<i>Robust Fault Detection and Isolation for Stochastic Systems</i> , pp. 5421-5426.	
George, Jemin	SUNY at Buffalo
Gregory, Irene	NASA Langley Res. Center
09:40-10:00	FrA21.2
<i>Sensor Fault Detection by Testing the Largest Eigenvalue of the Innovation Covariance Using Tracy-Widom Distribution</i> , pp. 5427-5432.	
Hajiyev, Chingiz	Istanbul Tech. Univ.
10:00-10:20	FrA21.3
<i>Sensor-Only Fault Detection Using Pseudo-Transfer-Function Identification</i> , pp. 5433-5438.	
Brzezinski, Adam	Univ. of Michigan - Ann Arbor
Kukreja, Sunil, L.	NASA Dryden Flight Res. Center
Ni, Jun	Univ. of Michigan
Bernstein, Dennis S.	Univ. of Michigan
10:20-10:40	FrA21.4
<i>Minimum Rotation Partitioning for Data Analysis and Its Application to Fault Detection</i> , pp. 5439-5444.	
Yasar, Murat	Tech. Inc.
Ray, Asok	Pennsylvania State Univ.
Kwatny, Harry	Drexel Univ.
10:40-11:00	FrA21.5
<i>A Decentralized Technique for Robust Simultaneous Fault Detection and Control of Uncertain Systems</i> , pp. 5445-5450.	
Alavi, S.M. Mahdi	Simon Fraser Univ.
Saif, Mehrdad	Simon Fraser Univ.

FrA22 Laurel D
Uncertain Systems (Regular Session)

Chair: Jonsson, Ulf T.	Royal Inst. of Tech. (KTH)
Co-Chair: Chen, Jie	Beijing Inst. of Tech.
09:20-09:40	FrA22.1
<i>Dilated LMI Conditions for the Robust Analysis of Uncertain Parameter-Dependent Descriptor Systems</i> , pp. 5451-5457.	
Bara, G. Iuliana	Univ. of Strasbourg
09:40-10:00	FrA22.2
<i>Lyapunov Measure and Stability of Uncertain Dynamical Systems*</i> . <small>© 2014 IEEE</small>	
Diwadkar, Amit	Iowa State Univ.
Vaidya, Umesh	Iowa State Univ.
10:00-10:20	FrA22.3
<i>Primal and Dual Criteria for Robust Stability and Their Application to Systems Interconnected Over a Bipartite Graph</i> , pp. 5458-5464.	
Jonsson, Ulf T.	Royal Inst. of Tech. (KTH)
10:20-10:40	FrA22.4
<i>Robust Expansion of Uncertain Volterra Kernels into Orthonormal Series</i> , pp. 5465-5470.	
da Rosa, Alex	State Univ. of Campinas (Unicamp)
Campello, Ricardo J. G. B.	Univ. of São Paulo at São Carlos
Ferreira, Paulo A Valente	Univ. of Campinas
Oliveira, Gustavo	PUCPR
Amaral, W.C.	FEEC/UNICAMP
10:40-11:00	FrA22.5
<i>Identification of Interval Models for a Class of Uncertain Systems Via Linear Programming</i> , pp. 5471-5476.	
Zhang, Guozhu	Beijing Inst. of Tech.
Chen, Jie	Beijing Inst. of Tech.
Li, Zhiping	School of Automation, Beijing Inst. of Technology, Beijing, Ch
11:00-11:20	FrA22.6
<i>Sequential Finite-Horizon Choquet-Expected Decision Problems with Uncertainty Aversion</i> , pp. 5477-5482.	
Lechevin, Nicolas	Defence R&D Canada
Rabbath, Camille Alain	Defence R&D Canada

FrB01		Harborside Ballroom A
Model Predictive Control II (Regular Session)		
Chair: Parisini, Thomas		Univ. of Trieste
Co-Chair: Chachuat, Benoît		McMaster Univ.
13:40-14:00		FrB01.1
<i>Extended Recursively Feasible Model Predictive Control of Nonlinear Discrete-Time Systems</i> , pp. 5483-5488.		
Pin, Gilberto		Danieli Automation S.p.A. (Italy)
Parisini, Thomas		Univ. of Trieste
14:00-14:20		FrB01.2
<i>A Fast Algorithm for Stochastic Model Predictive Control with Probabilistic Constraints</i> , pp. 5489-5494.		
Shin, Minyong		Stanford Univ.
Primbs, James A.		Stanford Univ.
14:20-14:40		FrB01.3
<i>Implementation of Neural Network-Based Nonlinear Adaptive Model Predictive Control Over a Service-Oriented Computer Network</i> , pp. 5495-5500.		
Akpan, Vincent Andrew		Aristotle Univ. of Thessaloniki
Samaras, Ioakeim Kostantinos		Aristotle Univ. of Thessaloniki
Hassapis, George		Aristotle Univ. of Thessaloniki
14:40-15:00		FrB01.4
<i>Output Feedback Predictive Controller for a Class of Nonlinear Systems</i> , pp. 5501-5506.		
Hadj Said, Salim		Tunis Engineering School ENIT
M'sahli, Faouzi		Monastir Engineering School
15:00-15:20		FrB01.5
<i>Optimized Decision Trees for Point Location in Polytopic Data Sets - Application to Explicit MPC</i> , pp. 5507-5512.		
Fuchs, Alexander		ETH Zurich
Jones, Colin Neil		ETH Zurich
Morari, Manfred		ETH Zurich
15:20-15:40		FrB01.6
<i>Data-Based Predictive Control with Multirate Prediction Step</i> , pp. 5513-5519.		
Barlow, Jonathan		NASA Ames Res. Center
FrB02		Harborside Ballroom B
Optimal Pursuit (Regular Session)		
Chair: Ma, Lili		Wentworth Inst. of Tech.
Co-Chair: Pham, Khanh D.		AIR FORCE Res. Lab. VEHICLES DIRECTORATE
13:40-14:00		FrB02.1
<i>Cooperative Target-Capturing with Inaccurate Target Information</i> , pp. 5520-5525.		
Sharma, Rajnikant		Brigham Young Univ.
Kothari, Mangal		Univ. of Leicester, UK
Taylor, Clark N.		Brigham Young Univ.
Postlethwaite, Ian		Northumbria Univ.
14:00-14:20		FrB02.2
<i>Adaptive Pursuit-Evasion under Adversarial Confrontations--Part I: Performance-Measure Statistics in Differential Games</i> , pp. 5526-5531.		
Pham, Khanh D.		AIR FORCE Res. Lab.
14:20-14:40		FrB02.3
<i>Cyclic Pursuit with Vision-Assisted Estimation</i> , pp. 5532-5537.		
Ma, Lili		Wentworth Inst. of Tech.
Hovakimyan, Naira		Univ. of Illinois, Urbana-Champaign
14:40-15:00		FrB02.4
<i>Vehicle Placement to Intercept Moving Targets</i> , pp. 5538-5543.		
Bopardikar, Shaunak D.		Univ. of California, Santa Barbara
Smith, Stephen L.		Massachusetts Inst. of Tech.
Bullo, Francesco		Univ. California at Santa Barbara
15:00-15:20		FrB02.5
<i>Sliding Mode Based Pure Pursuit Guidance for UAV Rendezvous and Chase with a Cooperative Aircraft</i> , pp. 5544-5549.		
Yamasaki, Takeshi		National Defense Acad.
Balakrishnan, S.N.		Missouri Univ. of Science and Tech.
15:20-15:40		FrB02.6
<i>Vision-Based Avoidance of Obstacles with Unknown Constant Velocity</i> , pp. 5550-5555.		
Ma, Lili		Wentworth Inst. of Tech.
FrB03		Harborside Ballroom D
Nonlinear Systems I (Regular Session)		
Chair: Deng, Mingcong		Okayama Univ.
Co-Chair: Guay, Martin		Queen's Univ.
13:40-14:00		FrB03.1
<i>Effectiveness Evaluation of Warfare Command Systems with Dissymmetrical Warfare Information</i> , pp. 5556-5560.		

Chen, Xiangyong	Northeastern Univ.
Jing, Yuanwei	Northeastern Univ.
Li, Chunji	Northeastern Univ.
Jiang, Nan	Northeastern Univ.
Dimirovski, Georgi M	Dogus Univ. of Istanbul
14:00-14:20	FrB03.2
<i>Damping Feedback Stabilization for Time-Dependent Nonlinear Control Affine Systems</i> , pp. 5561-5566.	
Hudon, Nicolas	Queen's Univ.
Guay, Martin	Queen's Univ.
14:20-14:40	FrB03.3
<i>A Pseudo-H_∞ Output Feedback Control Theory and Its Application to Pendulum-Like Systems</i> , pp. 5567-5572.	
Ouyang, Hua	UNSW@ADFA
Petersen, Ian R.	UNSW at Australian Def. Force Acad.
Ugrinovskii, Valery	Univ. of New South Wales
14:40-15:00	FrB03.4
<i>Operator Based Control Design for Perturbed Nonlinear Systems Output Tracking</i> , pp. 5573-5577.	
Bi, Shuhui	Okayama Univ.
Deng, Mingcong	Okayama Univ.
Yanou, Akira	Kinki Univ.
15:00-15:20	FrB03.5
<i>A Theoretical Approach to Feedback Control of Optical Soliton Propagation</i> , pp. 5578-5583.	
Koehn, Thaddeus	Univ. of Illinois at Urbana-Champaign
Langbort, Cedric	Univ. of Illinois, Urbana-Champaign
15:20-15:40	FrB03.6
<i>Equilibrium-Independent Passivity: A New Definition and Implications</i> , pp. 5584-5589.	
Hines, George	UC Berkeley
Arcak, Murat	Univ. of California, Berkeley
Packard, Andrew K.	Univ. of California at Berkeley

FrB04	Harborside Ballroom E
Decentralized Control I (Regular Session)	
Chair: Wu, Jeff	Stanford Univ.
Co-Chair: Ebihara, Yoshio	Kyoto Univ.
13:40-14:00	FrB04.1
<i>Decentralized Adaptive Control for Large-Scale Systems with Unknown Time-Varying Interaction Parameters</i> , pp. 5590-5595.	
Yoo, Sung Jin	Univ. of Illinois at Urbana-Champaign
Hovakimyan, Naira	Univ. of Illinois, Urbana-Champaign
Cao, Chengyu	Univ. of Connecticut
14:00-14:20	FrB04.2
<i>Internal Quadratic Invariance and Decentralized Control</i> , pp. 5596-5601.	
Lessard, Laurent	Stanford Univ.
Lall, Sanjay	Stanford Univ.
14:20-14:40	FrB04.3
<i>Decentralized Control for Discrete-Time LTI Systems: Lower Bound Analysis of H-Infinity Performance Achievable Via LTI Controllers</i> , pp. 5602-5607.	
Ebihara, Yoshio	Kyoto Univ.
Sebe, Noboru	Kyushu Inst. of Tech.
14:40-15:00	FrB04.4
<i>Optimal Decentralized Control of Linear Systems Via Groebner Bases and Variable Elimination</i> , pp. 5608-5613.	
Shin, Hyung Sik	Stanford Univ.
Lall, Sanjay	Stanford Univ.
15:00-15:20	FrB04.5
<i>Nonlinear Youla Parametrization and Information Constraints for Decentralized Control</i> , pp. 5614-5619.	
Wu, Jeff	Stanford Univ.
Lall, Sanjay	Stanford Univ.
15:20-15:40	FrB04.6
<i>An Interaction Metric for Decentralized Control Systems Based on the Perron Root</i> , pp. 5620-5625.	
Seshadri, Aravind	Oklahoma State Univ.
Pagilla, Prabhakar R.	Oklahoma State Univ.

FrB05	Essex A
Optimization III (Regular Session)	
Chair: Shanbhag, Uday V.	Univ. of Illinois, Urbana-Champaign
Co-Chair: Zhang, Xiaodong	Wright State Univ.
13:40-14:00	FrB05.1
<i>Youla-Kucera Parameter Synthesis Using Invariant Sets Techniques</i> , pp. 5626-5631.	
Luca, Anamaria	SUPELEC
Rodriguez-Ayerbe, Pedro	Supelec

Dumur, Didier	Ec. Superieure d'Electricite
14:00-14:20	FrB05.2
<i>On the Characterization of Solution Sets of Smooth and Nonsmooth Stochastic Nash Games</i> , pp. 5632-5637.	
Shanbhag, Uday V.	Univ. of Illinois, Urbana-Champaign
Ravat, Uma	Univ. of Illinois, Urbana-Champaign
14:20-14:40	FrB05.3
<i>Optimal Fireline Generation for Wildfire Fighting in Uncertain and Heterogeneous Environment</i> , pp. 5638-5643.	
HomChaudhuri, Baisravan	Univ. of Cincinnati
Kumar, Manish	Univ. of Cincinnati
Cohen, Kelly	Univ. of Cincinnati
14:40-15:00	FrB05.4
<i>Stochastic Approximation to Optimize the Performance of Human Operators</i> , pp. 5644-5649.	
Gong, Chaohui	Wayne State Univ.
Girard, Anouck	Univ. of Michigan, Ann Arbor
Wang, Weilin	Univ. of Michigan
15:00-15:20	FrB05.5
<i>Decentralized Fault Detection for a Class of Large-Scale Nonlinear Uncertain Systems</i> , pp. 5650-5655.	
Zhang, Xiaodong	Wright State Univ.
15:20-15:40	FrB05.6
<i>Virtual Motion Camouflage Based Phantom Track Generation through Cooperative Electronic Combat Air Vehicles</i> , pp. 5656-5661.	
Xu, Yunjun	Univ. of Central Florida
Basset, Gareth	Univ. of Central Florida

FrB06	Essex B
Estimation and Control of DPS II (Invited Session)	

Chair: Jovanovic, Mihailo	Univ. of Minnesota
Co-Chair: Demetriou, Michael A.	Worcester Pol. Inst.
Organizer: Demetriou, Michael A.	Worcester Pol. Inst.
Organizer: Armaou, Antonios	The Pennsylvania State Univ.
13:40-14:00	FrB06.1
<i>Towards Optimal Actuator Placement for Dissipative PDE Systems in the Presence of Uncertainty (I)</i> , pp. 5662-5667.	
Armaou, Antonios	The Pennsylvania State Univ.
Demetriou, Michael A.	Worcester Pol. Inst.
14:00-14:20	FrB06.2
<i>Fault-Tolerant Control of Sampled-Data Nonlinear Distributed Parameter Systems (I)</i> , pp. 5668-5673.	
Ghantasala, Sathyendra	Univ. of California, Davis
El-Farra, Nael H.	Univ. of California, Davis
14:20-14:40	FrB06.3
<i>Linear Feedback Control of a Von Karman Street by Cylinder Rotation (I)</i> , pp. 5674-5681.	
Borggaard, Jeff	Virginia Tech.
Stoyanov, Miroslav	Virginia Tech.
Zietsman, Lizette	Virginia Tech.
14:40-15:00	FrB06.4
<i>Transient Response of Velocity Fluctuations in Inertialess Channel Flows of Viscoelastic Fluids (I)</i> , pp. 5682-5687.	
Jovanovic, Mihailo	Univ. of Minnesota
Kumar, Satish	Univ. of Minnesota
15:00-15:20	FrB06.5
<i>Rejection of Sinusoidal Disturbance of Unknown Frequency for Linear System with Input Delay (I)</i> , pp. 5688-5693.	
Pyrkin, Anton	Saint-Petersburg State Univ. of ITMO
Smyshlyayev, Andrey	Univ. of California at San Diego
Bekiaris-Liberis, Nikolaos	Univ. of California, San Diego
Krstic, Miroslav	Univ. of California at San Diego
15:20-15:40	FrB06.6
<i>Discrete Mechanics Optimal Control (DMOC) and Model Predictive Control (MPC) Synthesis for Reaction-Diffusion Process System with Moving Actuator</i> , pp. 5694-5701.	
Dubljevic, Stevan	Univ. of Alberta
Kobilarov, Marin	Caltech
Ng, James	Univ. of Alberta

FrB07	Essex C
Numerical Algorithms I (Regular Session)	

Chair: Gryazina, Elena	Inst. for Control Sciences RAS
Co-Chair: Eryilmaz, Bora	MathWorks
13:40-14:00	FrB07.1
<i>Detecting Data Store Access Conflict in Simulink by Solving Boolean Satisfiability Problems</i> , pp. 5702-5707.	
Han, Zhi	The Mathworks
Mosterman, Pieter	The MathWorks, Inc.
14:00-14:20	FrB07.2
<i>Randomized Algorithms for Uncertain Complex Dynamical Systems Design</i> , pp. 5708-5713.	

Lin, Chenxi	Univ. of Oklahoma
Runolfsson, Thordur	The Univ. of Oklahoma
14:20-14:40	FrB07.3
<i>Preconditioners for Inexact Interior Point Methods for Predictive Control</i> , pp. 5714-5719.	
Shahzad, Amir	Imperial Coll. London
Kerrigan, Eric C.	Imperial Coll. London
Constantinides, George A.	Imperial Coll. London
14:40-15:00	FrB07.4
<i>Integer Levinson Algorithms for Toeplitz and Certain Quasi-Toeplitz Matrices</i> , pp. 5720-5725.	
Bistriz, Yuval	Tel Aviv Univ.
Segalov, Yaron	Tel Aviv Univ.
15:00-15:20	FrB07.5
<i>Krylov Subspace Restart Scheme for Solving Large-Scale Sylvester Equations</i> , pp. 5726-5731.	
Ahmad, Mian Ilyas	Imperial Coll. London
Jaimoukha, Imad M.	Imperial Coll. London
Frangos, Michalis	Massachusetts Inst. of Tech.
15:20-15:40	FrB07.6
<i>Multiscale Surveillance of Riemannian Manifolds</i> , pp. 5732-5737.	
Jacobs, Henry	Caltech
Nair, Sujit	California Inst. of Tech.
Marsden, Jerrold E.	California Inst. of Tech.

FrB08	Laurel A
Advanced Control Methods for Nano-Measurements (Invited Session)	

Chair: Abramovitch, Daniel Y.	Agilent Lab.
Co-Chair: Zou, Qingze	Iowa State Univ.
Organizer: Abramovitch, Daniel Y.	Agilent Lab.
Organizer: Clayton, Garrett	Villanova Univ.
Organizer: Fleming, Andrew J.	Univ. of Newcastle
Organizer: Leang, Kam K.	Univ. of Nevada, Reno
Organizer: Pao, Lucy Y.	Univ. of Colorado at Boulder
Organizer: Zou, Qingze	Iowa State Univ.
13:40-14:00	FrB08.1
<i>Adaptive-Delay Combined Feedforward/Feedback Control for Raster Tracking with Applications to AFMs (I)</i> , pp. 5738-5744.	
Butterworth, Jeffrey A.	Univ. of Colorado at Boulder
Pao, Lucy Y.	Univ. of Colorado at Boulder
Abramovitch, Daniel Y.	Agilent Lab.
14:00-14:20	FrB08.2
<i>Simulation of Atomic Force Microscopy of Molecular Structures and Interplay with Experiment (I)</i> , pp. 5745-5750.	
Belikov, Sergey	MikroMasch
Magonov, Sergei	Agilent Tech.
14:20-14:40	FrB08.3
<i>Image-Based Measurement of Periodic SPM Trajectories (I)</i> , pp. 5751-5756.	
Clayton, Garrett	Villanova Univ.
Deshmukh, Venkaesh	Villanova Univ.
14:40-15:00	FrB08.4
<i>Spiral Scanning: An Alternative to Conventional Raster Scanning in High-Speed Scanning Probe Microscopes (I)</i> , pp. 5757-5762.	
Mahmood, Iskandar A.	The Univ. of Newcastle
Moheimani, S.O. Reza	Univ. of Newcastle
15:00-15:20	FrB08.5
<i>Model-Based Approach to Compensate for the Dynamics Convolution Effect in Nanomechanical Property Measurement (I)</i> , pp. 5763-5768.	
Xu, Zhonghua	Iowa State Univ.
Zou, Qingze	Iowa State Univ.
15:20-15:40	FrB08.6
<i>Optimal Output Trajectory Design and Tracking in Preview-Based Nonperiodic Tracking-Transition Switching for Nonminimum-Phase Linear Systems (I)</i> , pp. 5769-5774.	
Wang, Haiming	Iowa State Univ.
Zou, Qingze	Iowa State Univ.
Xu, Hongbing	Univ. of Electronic Science and Tech. of China

FrB09	Laurel B
Time Delay Systems II (Regular Session)	

Chair: Moog, Claude	CNRS
Co-Chair: Khorrami, Farshad	Pol. Inst. of NYU
13:40-14:00	FrB09.1
<i>Dynamic Output Compensator Design for Time-Varying Discrete Time Systems with Delayed States</i> , pp. 5775-5780.	
Leite, Valter J. S.	CEFET/MG - Campus Div.
Castelan, Eugenio B.	Univ. Federal de Santa Catarina
Miranda, Marcio Fantini	Federal Univ. of Minas Gerais

Viana, Dimitri Campos	CEFET-MG
14:00-14:20	FrB09.2
<i>Simple Delay-Based Implementation of Continuous-Time Controllers</i> , pp. 5781-5788.	
Lavaei, Javad	California Inst. of Tech.
Sojoudi, Somayeh	California Inst. of Tech.
Murray, Richard M.	California Inst. of Tech.
14:20-14:40	FrB09.3
<i>Delay-Dependent Robust H_2 Control for Discrete Systems with Time-Delay and Polytopic Uncertainty</i> , pp. 5789-5793.	
Sun, Man	Northeastern Univ. at Qinhuangdao
Gu, Zhenpu	Hebei Univ. of Science and Tech.
14:40-15:00	FrB09.4
<i>Adaptive Dynamic High-Gain Scaling Based Output-Feedback Control of Nonlinear Feedforward Systems with Time Delays in Input and State</i> , pp. 5794-5799.	
Krishnamurthy, Prashanth	Pol. Inst. of NYU
Khorrami, Farshad	Pol. Inst. of NYU
15:00-15:20	FrB09.5
<i>Stabilization of Linear Systems with Distributed Input Delay</i> , pp. 5800-5805.	
Goebel, Gregor	Univ. of Stuttgart
Muenz, Ulrich	Univ. of Stuttgart
Allgower, Frank	Univ. of Stuttgart
15:20-15:40	FrB09.6
<i>Delay-Range Dependent Stability Analysis for T--S Fuzzy Systems with Time-Varying Delay</i> , pp. 5806-5811.	
Song, Min Kook	Yonsei Univ.
Park, Jin Bae	Yonsei Univ.
Joo, YoungHoon	Kunsan National Univ.

FrB10	Laurel C
Hybrid Electric Vehicles (Regular Session)	
Chair: Peng, Huei	Univ. of Michigan
Co-Chair: Fathy, Hosam K.	The Univ. of Michigan
13:40-14:00	FrB10.1
<i>Optimal Configuration Design for Hydraulic Split Hybrid Vehicles</i> , pp. 5812-5817.	
Li, Chiao-Ting	Univ. of Michigan
Peng, Huei	Univ. of Michigan
14:00-14:20	FrB10.2
<i>An Optimal Control-Based Algorithm for Hybrid Electric Vehicle Using Preview Route Information</i> , pp. 5818-5823.	
Ngo, Dac Viet	Eindhoven Univ. of Tech.
Hofman, Theo	Tech. Univ. Eindhoven
Steinbuch, Maarten	Eindhoven Univ. of Tech.
Serrarens, Alexander Franciscus Anita	Drivetrain Innovations BV
14:20-14:40	FrB10.3
<i>Charge Trajectory Optimization of Plug-In Hybrid Electric Vehicles for Energy Cost Reduction and Battery Health Enhancement</i> , pp. 5824-5831.	
Bashash, Saeid	The Univ. of Michigan
Moura, Scott	Univ. of Michigan, Ann Arbor
Fathy, Hosam K.	The Univ. of Michigan
14:40-15:00	FrB10.4
<i>Regenerative Braking Torque Estimation and Control Approaches for a Hybrid Electric Truck</i> , pp. 5832-5837.	
Yu, Xiangpeng	Wuhan Univ. of Tech.
Shen, Tielong	Sophia Univ.
Li, Gangyan	Wuhan Univ. of Tech.
Hikiri, Kunihiko	Nissan Diesel Motor CO., LTD.
15:00-15:20	FrB10.5
<i>Torque Harmonic Reduction in Hybrid Vehicles</i> , pp. 5838-5843.	
Njeh, Mohamed	Univ. of Poitiers
Cauet, Sebastien	Univ. of Poitiers
Coirault, Patrick	Esip-laii
Martin, Pascal	Univ. of Poitiers
Mercre, Guillaume	Univ. de Poitiers
15:20-15:40	FrB10.6
<i>A Stochastic Model Predictive Control Approach for Series Hybrid Electric Vehicle Power Management (I)</i> , pp. 5844-5849.	
Ripaccioli, Giulio	Univ. degli Studi di Siena
Bernardini, Daniele	Univ. of Siena
Di Cairano, Stefano	Ford Motor Company
Bemporad, Alberto	Univ. of Siena
Kolmanovsky, Ilya V.	Ford Motor Co.

FrB11	Grand Ballroom I
Control Applications V (Regular Session)	

Chair: Wang, Junmin	Ohio State Univ.
Co-Chair: Chang, Timothy N.	New Jersey Inst. of Tech.
13:40-14:00	FrB11.1
<i>Correlation Analysis of Alarm Data and Alarm Limit Design for Industrial Processes</i> , pp. 5850-5855.	
Yang, Fan	Tsinghua Univ.
Shah, Sirish L.	Univ. of Alberta
Xiao, Deyun	Tsinghua Univ.
14:00-14:20	FrB11.2
<i>Model Reference Zero Vibration Control of Ultrahigh Precision Piezoelectric Nanopositioner</i> , pp. 5856-5861.	
Yu, Lan	New Jersey Inst. of Tech.
Chang, Timothy N.	New Jersey Inst. of Tech.
14:20-14:40	FrB11.3
<i>Decoupled Adaptive Control of Glucose and Dissolved Oxygen for Fed-Batch Methionine Production Using Linear Reference Model</i> , pp. 5862-5867.	
Ranjan, Amalendu	Univ. of North Texas Health Science Center
Gomes, James	Indian Inst. of Tech. Delhi
14:40-15:00	FrB11.4
<i>Switching Control of Air-Fuel Ratio in Spark Ignition Engines</i> , pp. 5868-5873.	
Efimov, Denis	Inst. for Problems of Mechanical Eng.
Javaherian, Hossein	GM R&D
Nikiforov, Vladimir O.	St. State Univ. of Information Tech. Mechanics and
15:00-15:20	FrB11.5
<i>An Extended Kalman Filter for Ammonia Coverage Ratio and Capacity Estimations in the Application of Diesel Engine SCR Control and Onboard Diagnosis</i> , pp. 5874-5879.	
Hsieh, Ming Feng	The Ohio State Univ. Center for Automotive Res.
Wang, Junmin	Ohio State Univ.
15:20-15:40	FrB11.6
<i>Observer-Based Output Feedback Linear Control Applied to a Denitrification Reactor</i> , pp. 5880-5885.	
Torres, Ixbalank	Lab. d'Analyse et d'Architecture des Systèmes
Queinnec, Isabelle	LAAS-CNRS
Vilas Fernández, Carlos	IIM-CSIC
Vande Wouwer, Alain	Univ. de Mons

FrB12 Grand Ballroom II
Heating, Ventilation, and Air Conditioning (Regular Session)

Chair: Rasmussen, Bryan	Texas A&M Univ.
Co-Chair: Alleyne, Andrew G.	Univ. of Illinois, Urbana-Champaign
13:40-14:00	FrB12.1
<i>Parameter Estimation for Dynamic HVAC Models with Limited Sensor Information</i> , pp. 5886-5891.	
Hariharan, Natarajkumar	Texas A&M Univ.
Rasmussen, Bryan	Texas A&M Univ.
14:00-14:20	FrB12.2
<i>Optimal On-Off Control of an Air Conditioning and Refrigeration System</i> , pp. 5892-5897.	
Li, Bin	Univ. of Illinois, Urbana-Champaign
Alleyne, Andrew G.	Univ. of Illinois, Urbana-Champaign
14:20-14:40	FrB12.3
<i>A Control Architecture Solution to Superheat Nonlinearity</i> , pp. 5898-5903.	
Elliott, Matthew	Texas A&M Univ.
Shenoy, Bhaskar	Univ.
Rasmussen, Bryan	Texas A&M Univ.
14:40-15:00	FrB12.4
<i>Decoupled Feedforward Control for an Air-Conditioning and Refrigeration System</i> , pp. 5904-5909.	
Jain, Neera	Univ. of Illinois, Urbana-Champaign
Otten, Richard	Univ. of Illinois
Alleyne, Andrew G.	Univ. of Illinois, Urbana-Champaign
15:00-15:20	FrB12.5
<i>Microclimate Modeling and Control: A Multizone Approach</i> , pp. 5910-5915.	
Cortés, Andrés	Univ. de los Andes
Quijano, Nicanor	Univ. de los Andes

FrB13 Grand Ballroom III
Systems Biology (Regular Session)

Chair: Asada, H. Harry	Massachusetts Inst. of Tech.
Co-Chair: Lawrence, Douglas A.	Ohio Univ.
13:40-14:00	FrB13.1
<i>Model Discrimination of Chemical Reaction Networks by Linearization</i> , pp. 5916-5922.	
Georgiev, Daniel	Univ. of Washington
Fazel, Maryam	Univ. of Washington
Klavins, Eric	Univ. of Washington

14:00-14:20		FrB13.2
<i>Monotonicity and Bistability of Calcium/Calmodulin-Dependent Protein Kinase-Phosphatase Activation</i> , pp. 5923-5928.		
	Wu, Ming	Ohio Univ.
	Lawrence, Douglas A.	Ohio Univ.
14:20-14:40		FrB13.3
<i>Compositional Analysis of Autocatalytic Networks in Biology</i> , pp. 5929-5935.		
	Buzi, Gentian	California Inst. of Tech.
	Topcu, Ufuk	California Inst. of Tech.
	Doyle, John C.	California Inst. of Tech.
14:40-15:00		FrB13.4
<i>Stability Analysis of a Class of Biological Network Models</i> , pp. 5936-5941.		
	Motee, Nader	Caltech
	Bamieh, Bassam	Univ. of California at Santa Barbara
	Khammash, Mustafa H.	Univ. of California at Sta. Barbara
15:00-15:20		FrB13.5
<i>Effect of Coarse-Scale Modeling on Control Outcome of Genetic Regulatory Networks</i> , pp. 5942-5947.		
	Pal, Ranadip	Texas Tech. Univ.
	Bhattacharya, Sonal	Texas Tech. Univ.
15:20-15:40		FrB13.6
<i>Estimation of Shape Constrained Functions in Dynamical Systems and Its Application to Gene Networks</i> , pp. 5948-5953.		
	Shen, Jinglai	Univ. of Maryland Baltimore County
	Wang, Xiao	Purdue Univ.

FrB14 Grand Ballroom IV

Antiwindup Compensation (Regular Session)

	Chair: Tarbouriech, Sophie	LAAS-CNRS
	Co-Chair: Sajjadi-Kia, Solmaz	Univ. of California at Irvine (UCI)
13:40-14:00		FrB14.1
<i>Symbolic Identification for Anomaly Detection in Aircraft Gas Turbine Engines</i> , pp. 5954-5959.		
	Chakraborty, Subhadeep	Pennsylvania State Univ.
	Sarkar, Soumik	Pennsylvania State Univ.
	Ray, Asok	Pennsylvania State Univ.
	Phoha, Shashi	Pennsylvania State Univ.
14:00-14:20		FrB14.2
<i>Incorporation of Robustness Properties into the Observer Based Anti-Windup Scheme in the Case of Actuator Uncertainties</i> , pp. 5960-5965.		
	Bruckner, Martin	Johannes Kepler Univ. Linz
	Del Re, Luigi	Johannes Kepler Univ. Linz
14:20-14:40		FrB14.3
<i>Analysis of Gradient Projection Anti-Windup Scheme</i> , pp. 5966-5972.		
	Teo, Justin	Massachusetts Inst. of Tech.
	How, Jonathan P.	MIT
14:40-15:00		FrB14.4
<i>Geometric Properties of Gradient Projection Anti-Windup Compensated Systems</i> , pp. 5973-5978.		
	Teo, Justin	Massachusetts Inst. of Tech.
	How, Jonathan P.	MIT
15:00-15:20		FrB14.5
<i>Multi-Saturation Anti-Windup Structure for Satellite Control</i> , pp. 5979-5984.		
	Boada, Josep	LAAS-CNRS
	Prieur, Christophe	LAAS-CNRS
	Tarbouriech, Sophie	LAAS-CNRS
	Pittet, Christelle	CNES
	Charbonnel, Catherine	Thales Alenia Space France

FrB15 Grand Ballroom VII

Marine Systems II (Regular Session)

	Chair: Lee, Taeyoung	Florida Inst. of Tech.
	Co-Chair: Canudas de Wit, Carlos	CNRS, GIPSA-Lab.
13:40-14:00		FrB15.1
<i>Computational Geometric Optimal Control of Connected Rigid Bodies in a Perfect Fluid</i> , pp. 5985-5990.		
	Lee, Taeyoung	Florida Inst. of Tech.
	Leok, Melvin	Univ. of California, San Diego
	McClamroch, N. Harris	Univ. of Michigan
14:00-14:20		FrB15.2
<i>Contraction Control of a Fleet Circular Formation of AUVs under Limited Communication Range</i> , pp. 5991-5996.		
	Briñon Arranz, Lara	INRIA Rhône-Alpes
	Seuret, Alexandre	CNRS
	Canudas de Wit, Carlos	CNRS, GIPSA-Lab.
14:20-14:40		FrB15.3

<i>Command Filtered Backstepping Design in MOOS-IvP Helm Framework for Trajectory Tracking of USVs</i> , pp. 5997-6003.	NURC Univ. of Zagreb
Djapic, Vladimir Nad, Dula	
14:40-15:00	FrB15.4
<i>Extraction of Relative Proximity from Electrostatic Images Using Wide-Field Integration Methods</i> , pp. 6004-6009.	Univ. of Maryland Univ. of Maryland Univ. of Maryland
Dimble, Kedar Faddy, James M. Humbert, J. Sean	
15:00-15:20	FrB15.5
<i>Handling Roll Constraints for Path Following of Marine Surface Vessels Using Coordinated Rudder and Propulsion Control</i> , pp. 6010-6015.	Univ. of Michigan Univ. of Michigan Univ. of Michigan
Li, Zhen Sun, Jing Oh, So-ryeok	
15:20-15:40	FrB15.6
<i>Control-Oriented Modeling of Ionic Polymer Metal Composites for Biomimetic Underwater Propulsion</i> , pp. 6016-6021.	Pol. Inst. of New York Univ. Pol. Inst. of New York Univ. Pol. Inst. of New York Univ.
Aureli, Matteo Kopman, Vladislav Porfiri, Maurizio	

FrB16	Grand Ballroom VIII
Robot Control II (Regular Session)	
Chair: Poignet, Philippe Co-Chair: Zergeroglu, Erkan	Univ. Montpellier 2 Gebze Inst. of Tech.
13:40-14:00	FrB16.1
<i>A Predictive Robust Cascade Position-Torque Control Strategy for Pneumatic Artificial Muscles</i> , pp. 6022-6029.	LIRMM (Lab. d'Informatique de Robotique et de Microélectr Univ. Montpellier 2
Chikh, Lotfi Poignet, Philippe Pierrot, Francois Michelin, Micaël	LIRMM Fatronik
14:00-14:20	FrB16.2
<i>Gait Phase-Based Smoothed Sliding Mode Control for a Rotary Series Elastic Actuator Installed on the Knee Joint</i> , pp. 6030-6035.	Univ. of California, Berkeley Univ. of California, Berkeley Univ. of California, Berkeley
Bae, Joonbum Kong, Kyoungchul Tomizuka, Masayoshi	
14:20-14:40	FrB16.3
<i>An Adaptive Full-State Feedback Controller for Bilateral Telerobotic Systems</i> , pp. 6036-6041.	Gebze Inst. of Tech. Gebze Inst. of Tech. Gebze Inst. of Tech.
Ozbay, Ufuk Zergeroglu, Erkan Okur, Beytullah	
14:40-15:00	FrB16.4
<i>Time and Output Warping of Control Systems: Comparing and Imitating Motions</i> , pp. 6042-6047.	Georgia Inst. of Tech. Georgia Inst. of Tech.
Kingston, Peter Egerstedt, Magnus	
15:00-15:20	FrB16.5
<i>Stable Walking for a Compass-Like Biped Robot in Complex Environments</i> , pp. 6048-6053.	Zhejiang Univ. Zhejiang Univ. Zhejiang Univ.
Hu, Yong Yan, Gangfeng Lin, Zhiyun	
15:20-15:40	FrB16.6
<i>A Hierarchical Multiple-Model Approach for Detection and Isolation of Robotic Actuator Faults</i> , pp. 6054-6059.	National Chiao Tung Univ. National Chiao Tung Univ.
Hsiao, Tesheng Weng, Mao-Chiao	

FrB17	Grand Ballroom IX
Nonlinear Observers II (Regular Session)	
Chair: Rajamani, Rajesh Co-Chair: Lum, Kai-Yew	Univ. of Minnesota National Univ. of Singapore
13:40-14:00	FrB17.1
<i>Observer Design for Lipschitz Nonlinear Systems Using Riccati Equations</i> , pp. 6060-6065.	Univ. of Minnesota Univ. of Minnesota
Phanomchoeng, Gridsada Rajamani, Rajesh	
14:00-14:20	FrB17.2
<i>A New Nonlinear Filtering Algorithm Via Fourier Series</i> , pp. 6066-6070.	Mississippi State Univ. Mississippi State Univ.
Xin, Ming Jia, Bin	
14:20-14:40	FrB17.3
<i>Lyapunov-Based Adaptive State Estimation for a Class of Continuous-Time Nonlinear Stochastic Systems</i> , pp. 6071-6076.	Beijing Inst. of Tech. Univ. of Florida
Xie, Li Khargonekar, Pramod P.	

14:40-15:00 FrB17.4
Observer-Based Nonlinear Control Allocation, pp. 6077-6082.
 Liao, Fang National Univ. of Singapore
 Lum, Kai-Yew National Univ. of Singapore
 Wang, Jian Liang Nanyang Tech. Univ.

15:00-15:20 FrB17.5
The Bounded Jacobian Approach to Nonlinear Observer Design, pp. 6083-6088.
 Phanomchoeng, Gridsada Univ. of Minnesota
 Rajamani, Rajesh Univ. of Minnesota

FrB18 Grand Ballroom X
Metalworking (Regular Session)

Chair: Grimble, Michael John Univ. of Strathclyde
 Co-Chair: Simaan, Marwan A. Univ. of Central Florida

13:40-14:00 FrB18.1

Temperature Control in Transport Delay Systems, pp. 6089-6094.
 Hearn, Gerald Convertteam Ltd
 Grimble, Michael John Univ. of Strathclyde

14:00-14:20 FrB18.2

Controller for Improving the Quality of the Tandem Rolling of Hot Metal Strip, pp. 6095-6100.
 Pittner, John Univ. of Pittsburgh
 Simaan, Marwan A. Univ. of Central Florida

14:20-14:40 FrB18.3

Robust Adaptive Control of the Mold Level in the Continuous Casting Process Using Multiple Models, pp. 6101-6108.
 Jabri, Karim Supélec
 Godoy, Emmanuel Supélec
 Dumur, Didier Ec. Supérieure d'Electricité
 Mouchette, Alain ArcelorMittal
 Bele, Bertrand ArcelorMittal

14:40-15:00 FrB18.4

Two-Stage Optimized Scheduling Method and Application for Steelmaking and Continuous Casting, pp. 6109-6114.
 Xiuying, Wang NorthEastern Univ.
 Chai, Tianyou Northeastern Univ.
 Zheng, Binglin Northeastern Univ.
 Wang, Hong The Univ. of Manchester

15:00-15:20 FrB18.5

Adaptive Fuzzy Sliding Mode Control Design for Laser Metal Deposition, pp. 6115-6120.
 Zeinali, Meysar Univ. of Waterloo
 Khajepour, Amir Univ. of Waterloo

15:20-15:40 FrB18.6

Chatter Control in the High-Speed Milling Process Using \mathcal{L}_2 -Synthesis, pp. 6121-6126.
 van Dijk, Niels Eindhoven Univ. of Tech.
 Van De Wouw, Nathan Eindhoven Univ. of Tech.
 Doppenberg, E.J.J. Inst. of applied physics (TNO)
 Oosterling, Han TNO
 Nijmeijer, Hendrik Eindhoven Univ. of Tech.

FrB19 Dover A
Automotive Systems II (Regular Session)

Chair: Liu, Steven Univ. of Kaiserslautern
 Co-Chair: Steinbuch, Maarten Eindhoven Univ. of Tech.

13:40-14:00 FrB19.1

Self-Tuning Control Design Strategy for an Electronic Throttle with Experimental Robustness Analysis, pp. 6127-6132.
 Alt, Benedikt Department of Aeronautical Engineering
 Blath, Jan P. IAV GmbH
 Svaricek, Ferdinand Univ. of German Armed Forces Munich
 Schultalbers, Matthias IAV GmbH, Ingenieurgesellschaft Auto und Verkehr

14:00-14:20 FrB19.2

Development and Assessment of Driveline and Stability Control, pp. 6133-6138.
 Chretien, Benoît Intedis
 Holzmann, Frederic Intedis
 Glaser, Sébastien LCPC
 Mammar, Said LSC-CNRS-FRE2494
 Glasser, Nicolas Intedis

14:20-14:40 FrB19.3

State Machine-Based Fault Diagnosis with Application in a Vehicle Chassis System, pp. 6139-6144.
 Pisu, Pierluigi Clemson Univ.
 Zhang, Xian ICAR, Clemson Univ.

14:40-15:00 FrB19.4

<i>Cooperative Adaptive Cruise Control, Design and Experiments</i> , pp. 6145-6150.	Eindhoven Univ. of Tech. Eindhoven Univ. of Tech. TNO Eindhoven Univ. of Tech. Eindhoven Univ. of Tech.
Naus, Gerrit Vugts, René Ploeg, Jeroen Molengraaf, René van de Steinbuch, Maarten	
15:00-15:20	FrB19.5
<i>Bandwidth Extension of Dynamical Test Benches by Modified Mechanical Design under Adaptive Feed Forward Disturbance Rejection</i> , pp. 6151-6156.	AVL Johannes Kepler Univ. Linz Johannes Kepler Univ. Linz AVL AVL
Kokal, Helmut Gruenbacher, Engelbert Del Re, Luigi Schmidt, Martin Paulweber, Michael	
15:20-15:40	FrB19.6
<i>Deterioration Modeling Strategy for Pro-Active Services of Commercial Vehicles</i> , pp. 6157-6162.	DAIMLER AG DAIMLER AG Univ. of Kaiserslautern
Prothmann, Christoph Kokes, Michael Liu, Steven	
FrB20	Dover B
Navigation and Path Planning (Regular Session)	
Chair: Tsiotras, Panagiotis Co-Chair: Silvestre, Carlos	Georgia Inst. of Tech. Inst. Superior Tecnico
13:40-14:00	FrB20.1
<i>Time-Optimal Synthesis for the Zermelo-Markov-Dubins Problem: The Constant Wind Case</i> , pp. 6163-6168.	Georgia Inst. of Tech. Georgia Inst. of Tech.
Bakolas, Efstathios Tsiotras, Panagiotis	
14:00-14:20	FrB20.2
<i>Considerations Choosing the Optimal Equilibrium Point on the Rotational Sphere</i> , pp. 6169-6174.	Narvik Univ. Coll. Narvik Univ. Coll. Narvik Univ. Coll.
Schlanbusch, Rune Kristiansen, Raymond Nicklasson, Per Johan	
14:20-14:40	FrB20.3
<i>A Practical Path-Planning Algorithm for a Simple Car: A Hamilton-Jacobi Approach</i> , pp. 6175-6180.	Univ. of California, Los Angeles Univ. of Texas at Austin Univ. of California, Los Angeles Univ. of California Los Angeles
Takei, Ryo Tsai, Yen Hsi Richard Shen, Haochong Landa, Yanina	
14:40-15:00	FrB20.4
<i>Decentralised Navigation and Collision Avoidance for Aircraft in 3D Space</i> , pp. 6181-6186.	National Tech. Univ. of Athens National Tech. Univ. of Athens
Roussos, Giannis Kyriakopoulos, Kostas J.	
15:00-15:20	FrB20.5
<i>A Method for Navigation of an Autonomous Vehicle for Border Patrol</i> , pp. 6187-6190.	St.Petersburg Univ. Univ. of New South Wales Univ. of New South Wales
Matveev, Alexey S. Teimoori Sangani, Hamid Savkin, Andrey	
15:20-15:40	FrB20.6
<i>Single Beacon Navigation: Observability Analysis and Filter Design</i> , pp. 6191-6196.	Inst. Superior Técnico Inst. Superior Tecnico Inst. Superior Técnico
Batista, Pedro Silvestre, Carlos Oliveira, Paulo Jorge	
FrB21	Dover C
Fault Tolerant Control (Regular Session)	
Chair: González, Oscar R. Co-Chair: Franze', Giuseppe	Old Dominion Univ. Univ. Degli Studi della Calabria
13:40-14:00	FrB21.1
<i>Performance Analysis of Fault Tolerant Control Systems with I.I.D. Upsets</i> , pp. 6197-6204.	Old Dominion Univ. Old Dominion Univ. Old Dominion Univ.
Chávez-Fuentes, Jorge R. González, Oscar R. Gray, W. Steven	
14:00-14:20	FrB21.2
<i>Control Switching in High Performance and Fault Tolerant Control</i> , pp. 6205-6209.	Tech. Univ. of Denmark Tech. Univ. of Denmark
Niemann, Henrik Poulsen, Niels Kjřlstad	
14:20-14:40	FrB21.3
<i>A Fault-Tolerant Real-Time Supervisory Scheme for an Interconnected Four-Tank System</i> , pp. 6210-6215.	

Casavola, Alessandro	Univ. Della Calabria
Famularo, Domenico	Univ. degli Studi Mediterranea di Reggio Calabria
Franze', Giuseppe	Univ. Degli Studi della Calabria
Furfaro, Angelo	Univ. degli Studi della Calabria
14:40-15:00	FrB21.4
<i>Analytically Redundant Controllers for Fault Tolerance: Implementation with Separation of Concerns</i> , pp. 6216-6221.	
Hameed, Kashif	Univ. of the West of England
Williams, Rob	Univ. of the West of England
Smith, Jim	Univ. of the West of England
15:00-15:20	FrB21.5
<i>Extension of Modified Pseudo-Inverse Method with Generalized Linear Quadratic Stabilization</i> , pp. 6222-6224.	
Ciubotaru, Bogdan D.	Pol. Univ. of Bucharest
Staroswiecki, Marcel	Univ. des Sciences et Tech. de Lille

FrB22 Laurel D

Positive Systems (Regular Session)	
Chair: Langbort, Cedric	Univ. of Illinois, Urbana-Champaign
Co-Chair: Valcher, Maria Elena	Univ. di Padova
13:40-14:00	FrB22.1
<i>On the Stability of Continuous-Time Positive Switched Systems</i> , pp. 6225-6230.	
Fornasini, Ettore	Univ. di Padova
Valcher, Maria Elena	Univ. di Padova
14:00-14:20	FrB22.2
<i>Nonlinear Positive Observer Design for Positive Dynamical Systems</i> , pp. 6231-6237.	
Brian, Ben	Univ. of Central Florida
Wang, Jing	Bethune-Cookman Univ.
Qu, Zhihua	Univ. of Central Florida
14:20-14:40	FrB22.3
<i>KYP Lemma for Internally Positive Systems and a Tractable Class of Distributed H-Infinity Control Problems</i> , pp. 6238-6243.	
Tanaka, Takashi	Univ. of Illinois, Urbana-Champaign
Langbort, Cedric	Univ. of Illinois, Urbana-Champaign
14:40-15:00	FrB22.4
<i>H-Infinity Model Reduction for Positive Systems</i> , pp. 6244-6249.	
Li, Ping	The Univ. of HongKong
Lam, James	The Univ. of Hong Kong
Wang, Zidong	Brunel Univ.
15:00-15:20	FrB22.5
<i>On the Diagonal Stability of a Class of Almost Positive Switched Systems</i> , pp. 6250-6255.	
Shorten, Robert	Nat. Univ. of Ireland
Narendra, Kumpati S.	Yale Univ.
15:20-15:40	FrB22.6
<i>Dwell Time Analysis for Continuous-Time Switched Linear Positive Systems</i> , pp. 6256-6261.	
Zappavigna, Annalisa	Pol. di Milano
Colaneri, Patrizio	Pol. di Milano
Geromel, Jose C.	UNICAMP
Shorten, Robert	Nat. Univ. of Ireland

FrC01 Harborside Ballroom A

Model Predictive Control III (Regular Session)	
Chair: Rossiter, J. Anthony	Univ. of Sheffield
Co-Chair: Rivera, Daniel E.	Arizona State Univ.
16:00-16:20	FrC01.1
<i>Robust Model Predictive Control with Disturbance Invariant Sets</i> , pp. 6262-6267.	
Yu, Shuyou	Univ. of Stuttgart
Bohm, Christoph	Univ. of Stuttgart
Chen, Hong	Jilin Univ. Campus NanLing
Allgower, Frank	Univ. of Stuttgart
16:20-16:40	FrC01.2
<i>Approximate Off-Line Receding Horizon Control of Constrained Nonlinear Discrete-Time Systems: Smooth Approximation of the Control Law</i> , pp. 6268-6273.	
Pin, Gilberto	Danieli Automation S.p.A. (Italy)
Filippo, Marco	Univ. of Trieste
Pellegrino, Felice Andrea	Univ. of Trieste, Trieste (Italy)
Fenu, Gianfranco	Univ. of Trieste
Parisini, Thomas	Univ. of Trieste
16:40-17:00	FrC01.3
<i>Stochastic Tubes in Model Predictive Control with Probabilistic Constraints</i> , pp. 6274-6279.	
Cannon, Mark	Univ. of Oxford
Kouvaritakis, Basil	Oxford Univ.

Rakovic, Sasa V. Cheng, Qifeng	Imperial Coll. London Univ. of Oxford
17:00-17:20 <i>Robust Stability in Predictive Control with Soft Constraints</i> , pp. 6280-6285.	FrC01.4
Thomsen, Sven Creutz Niemann, Henrik Poulsen, Niels Kjrlstad	Tech. Univ. of Denmark Tech. Univ. of Denmark Tech. Univ. of Denmark
17:20-17:40 <i>A Novel Model Predictive Control Formulation for Hybrid Systems with Application to Adaptive Behavioral Interventions</i> , pp. 6286-6292.	FrC01.5
Nandola, Nareshkumar Rivera, Daniel E.	Arizona State Univ. Arizona State Univ.
17:40-18:00 <i>A Move-Blocking Strategy to Improve Tracking in Predictive Control</i> , pp. 6293-6298.	FrC01.6
Valencia-Palomo, Guillermo Pelegrinis, Michail Rossiter, J. Anthony Gondhalekar, Ravi	Univ. of Sheffield Univ. of Sheffield Univ. of Sheffield Osaka Univ.

FrC02	Harborside Ballroom B
Consensus (Regular Session)	
Chair: Preciado, Victor M. Co-Chair: Scardovi, Luca	Univ. of Pennsylvania Tech. Univ. Munchen
16:00-16:20 <i>Robust Consensus Tracking of Leader-Based Multi-Agent Systems</i> , pp. 6299-6305.	FrC02.1
Guerrero, Jose Alfredo Romero, Gerardo Lozano, Rogelio	Univ. de Tech. de Compiengne UAM Reynosa Rodhe, Univ. Autonoma de Tamaulipas Univ. de Tech.
16:20-16:40 <i>Gossip Consensus and Averaging Algorithms with Quantization</i> , pp. 6306-6311.	FrC02.2
Cai, Kai Ishii, Hideaki	Tokyo Inst. of Tech. Tokyo Inst. of Tech.
16:40-17:00 <i>Robustness of Noisy Consensus Dynamics with Directed Communication</i> , pp. 6312-6317.	FrC02.3
Young, George Forrest Scardovi, Luca Leonard, Naomi Ehrich	Princeton Univ. Tech. Univ. Munchen Princeton Univ.
17:00-17:20 <i>Sufficient Conditions for the Convergence of a Class of Nonlinear Distributed Consensus Algorithms</i> , pp. 6318-6323.	FrC02.4
Ajorlou, Amir Momeni, Ahmadreza Aghdam, Amir G.	Concordia Univ. Concordia Univ. Concordia Univ.
17:20-17:40 <i>An Extension of Consensus-Based Auction Algorithms for Decentralized, Time-Constrained Task Assignment</i> , pp. 6324-6329.	FrC02.5
Mercker, Travis Casbeer, David W. Millet, Paul Travis Akella, Maruthi	Univ. of Texas at Austin Air Force Res. Lab. Brigham Young Univ. The Univ. of Texas at Austin
17:40-18:00 <i>Variance Analysis of Randomized Consensus in Switching Directed Networks</i> , pp. 6330-6335.	FrC02.6
Preciado, Victor M. Tahbaz-Salehi, Alireza Jadbabaie, Ali	Univ. of Pennsylvania Massachusetts Inst. of Tech. Univ. of Pennsylvania

FrC03	Harborside Ballroom D
Nonlinear Systems II (Regular Session)	
Chair: Yaz, Edwin Co-Chair: Lin, Zongli	Marquette Univ. Univ. of Virginia
16:00-16:20 <i>Online Solution of State Dependent Riccati Equation for Nonlinear System Stabilization</i> , pp. 6336-6341.	FrC03.1
Yucelen, Tansel Shekar Sadahalli, Arjun Pourboghrat, Farzad	Georgia Inst. of Tech. Southern Illinois Univ. Southern Illinois Univ.
16:20-16:40 <i>Further Results on Disturbance Attenuation for Multiple Input Multiple Output Nonlinear Systems</i> , pp. 6342-6347.	FrC03.2
Liu, Xinmin Lin, Zongli	Univ. of Virginia Univ. of Virginia
16:40-17:00 <i>On Incrementally Bounded Systems</i> , pp. 6348-6350.	FrC03.3
Kapinski, James	Carnegie Mellon Univ.

Krogh, Bruce H.	Carnegie Mellon Univ.
17:00-17:20	FrC03.4
<i>Nonsmooth Backstepping Design for a Class of Parametric Strict-Feedback Nonlinear Systems Based on Lipschitz Feedback</i> , pp. 6351-6356.	
Zheng, Kai	Dalian Maritime Univ. China
Shen, Tielong	Sophia Univ.
He, Fenghua	Harbin Inst. of Tech.
Yang, Ming	Dalian Maritime Univ.
17:20-17:40	FrC03.5
<i>Robust Nonlinear Feedback Control of Discrete-Time Nonlinear Systems with Mixed Performance Criteria</i> , pp. 6357-6362.	
Wang, Xin	Marquette Univ.
Yaz, Edwin	Marquette Univ.
Jeong, Chung Seop	Marquette Univ.
17:40-18:00	FrC03.6
<i>Robust and Resilient Optimal Controller Design for a Class of Nonlinear Systems with General Criteria</i> , pp. 6363-6368.	
Jeong, Chung Seop	Marquette Univ.
Feng, Fan	Marquette Univ.
Yaz, Edwin	Marquette Univ.
Yaz, Yvonne	Milwaukee School of Engineering

FrC04	Harborside Ballroom E
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Decentralized Control II (Regular Session)

Chair: Martins, Nuno C.	Univ. of Maryland
Co-Chair: Mukhopadhyay, Snehasis	Indiana-Purdue Univ.
16:00-16:20	FrC04.1
<i>To Communicate or Not to Communicate: A Decision-Theoretic Approach to Decentralized Adaptive Control</i> , pp. 6369-6376.	
Narendra, Kumpati S.	Yale Univ.
Mukhopadhyay, Snehasis	Indiana-Purdue Univ.
16:20-16:40	FrC04.2
<i>On Disturbance Attenuation for Linear Systems under Stable, Additive Plant Perturbations</i> , pp. 6377-6384.	
Sabau, Serban	Univ. of Maryland, Coll. Park
Martins, Nuno C.	Univ. of Maryland
16:40-17:00	FrC04.3
<i>An Explicit State-Space Solution for a Decentralized Two-Player Optimal Linear-Quadratic Regulator</i> , pp. 6385-6390.	
Swigart, John	Stanford Univ.
Lall, Sanjay	Stanford Univ.
17:00-17:20	FrC04.4
<i>A Structural Result for Delayed Sharing Information Structures</i> , pp. 6391-6396.	
Nayyar, Ashutosh	Univ. of Michigan, Ann Arbor
Mahajan, Aditya	Yale Univ.
Teneketzi, Demosthenis	Univ. of Michigan
17:20-17:40	FrC04.5
<i>Measure and Cost Dependent Properties of Information Structures</i> , pp. 6397-6402.	
Mahajan, Aditya	Yale Univ.
Yuksel, Serdar	Queen's Univ.
17:40-18:00	FrC04.6
<i>Optimal Semistable Control for Continuous-Time Coupled Systems</i> , pp. 6403-6408.	
Hui, Qing	Texas Tech. Univ.

FrC05	Essex A
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Optimal Searching (Regular Session)
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Chair: Krishnaprasad, P. S.	Univ. of Maryland
Co-Chair: Moore, Brandon	Univ. of Michigan
16:00-16:20	FrC05.1
<i>Partitioned Searching and Deconfliction: Analysis and Flight Tests</i> , pp. 6409-6416.	
Lum, Christopher	Univ. of Washington
Vagners, Juris	Univ. of Washington
Jang, Jung Soon	Stanford Univ.
Vian, John L.	The Boeing Company
16:20-16:40	FrC05.2
<i>Source Seeking Via Collaborative Measurements by a Circular Formation of Agents</i> , pp. 6417-6422.	
Moore, Brandon	Univ. of Michigan
Canudas de Wit, Carlos	CNRS, GIPSA-Lab.
16:40-17:00	FrC05.3
<i>Cost-Aware Sequential Bayesian Tasking and Decision-Making for Search and Classification</i> , pp. 6423-6428.	
Wang, Yue	Worcester Pol. Inst.
Hussein, Islam	Worcester Pol. Inst.
Brown, Donald	WPI
Erwin, Richard Scott	Air Force Res. Lab.

17:00-17:20		FrC05.4
<i>Motion Camouflage for Coverage</i> , pp. 6429-6435.		
Mischiati, Matteo		Univ. of Maryland
Krishnaprasad, P. S.		Univ. of Maryland
17:20-17:40		FrC05.5
<i>A Coverage Algorithm for Drifters in a River Environment</i> , pp. 6436-6441.		
Kwok, Andrew		Univ. of California at San Diego
Martinez, Sonia		Univ. of California at San Diego
17:40-18:00		FrC05.6
<i>Periodic Optimal Search Control Considering Reduction of Energy Consumption</i> , pp. 6442-6447.		
Saito, Mamoru		Sony Corp.
Hatanaka, Takeshi		Tokyo Inst. of Tech.
Fujita, Masayuki		Tokyo Inst. of Tech.

FrC06		Essex B
Fuzzy Systems (Regular Session)		
Chair: Wang, Xin		Marquette Univ.
Co-Chair: Fadali, Mohammed Sami		Univ. of Nevada
16:00-16:20		FrC06.1
<i>Dynamic Output Feedback for T-S Fuzzy Model Based on Chaotic Systems with Uncertainties</i> , pp. 6448-6453.		
Chen, Zhaona		Northeastern Univ.
Jing, Yuanwei		Northeastern Univ.
Dimirovski, Georgi M		Dogus Univ. of Istanbul
16:20-16:40		FrC06.2
<i>Fuzzy TSK Approximation Using Type-2 Fuzzy Logic Systems and Its Application to Modeling a Photovoltaic Array</i> , pp. 6454-6459.		
Fadali, Mohammed Sami		Univ. of Nevada
Jafarzadeh, Saeed		Univ. of Nevada Reno
Nafeh, Abd El-Shafy		Electronics Res. Inst. (ERI)
16:40-17:00		FrC06.3
<i>Robust Multi-Criteria Optimal Fuzzy Control of Continuous-Time Nonlinear Systems</i> , pp. 6460-6465.		
Wang, Xin		Marquette Univ.
Yaz, Edwin		Marquette Univ.
17:00-17:20		FrC06.4
<i>Lane Keeping Automation at Tire Saturation</i> , pp. 6466-6471.		
Mammar, Said		LSC-CNRS-FRE2494
Minoiu Enache, Nicoleta		INRETS/LCPC - LIVIC Lab.
Glaser, Sébastien		LCPC
Lusetti, Benoit		LIVIC - INRETS
Benine-Neto, André		LIVIC-LCPC/INRETS
17:20-17:40		FrC06.5
<i>Universal Approximation of TS Fuzzy Systems Constructed Dynamically--MISO Cases</i> , pp. 6472-6479.		
Yan, ShiYu		State Key Lab. on Intelligent Tech. and Systems, Tsing
Sun, Zengqi		Tsinghua Univ.
Li, Zhe		Central Univ. of Finance and Ec.
17:40-18:00		FrC06.6
<i>Fuzzy Control of Delayed Systems: Less Conservative Convex Conditions</i> , pp. 6480-6485.		
Viana, Dimitri Campos		CEFET-MG
Leite, Valter J. S.		CEFET/MG - Campus Div.
Miranda, Marcio Fantini		Federal Univ. of Minas Gerais

FrC07		Essex C
Numerical Algorithms II (Regular Session)		
Chair: Hasan, Mohammed A.		Univ. of Minnesota
Co-Chair: Cao, Ming		Univ. of Groningen
16:00-16:20		FrC07.1
<i>Fault Tolerant Tracking Control for Nonlinear Systems Based on Derivative Estimation</i> , pp. 6486-6493.		
Mai, Philipp		Univ. der Bundeswehr Muenchen
Hillermeier, Claus		Univ. d. Bundeswehr, München
16:20-16:40		FrC07.2
<i>On UAV Routing Protocols for Sparse Sensor Data Exfiltration</i> , pp. 6494-6500.		
Klein, Daniel J.		Univ. of California, Santa Barbara
Schweikl, Johann Josef		Univ. of California, Santa Barbara
Isaacs, Jason T.		Univ. of California, Santa Barbara
Hespanha, Joao P.		Univ. of California, Santa Barbara
16:40-17:00		FrC07.3
<i>System Identification and Uncertainty Domain Determination: A Subspace-Based Approach</i> , pp. 6501-6506.		
Farah, Wafa		Univ. of Poitiers
Mercère, Guillaume		Univ. de Poitiers
Poinot, Thierry		Ec. Supérieure d'Ingénieurs de Poitiers

17:00-17:20		FrC07.4
<i>On Second Derivative-Free Zero Finding Methods</i> , pp. 6507-6512.		
Hasan, Mohammed A.		Univ. of Minnesota
17:20-17:40		FrC07.5
<i>Cluster Synchronization Algorithms</i> , pp. 6513-6518.		
Xia, Weiguo		Univ. of Groningen
Cao, Ming		Univ. of Groningen
17:40-18:00		FrC07.6
<i>Estimation of State-Transition Probability Matrices in Asynchronous Population Markov Processes</i> , pp. 6519-6524.		
Farahat, Waleed		MIT
Asada, H. Harry		Massachusetts Inst. of Tech.

FrC08		Laurel A
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Nano Systems (Regular Session)		
Chair: Alleyne, Andrew G.		Univ. of Illinois, Urbana-Champaign
Co-Chair: Komae, Arash		Univ. of Maryland Coll. Park
16:00-16:20		FrC08.1
<i>Modal Actuation for High Bandwidth Nano-Positioning</i> , pp. 6525-6530.		
van Hulzen, Jan Roelf		Delft Univ. of Tech.
Schitter, Georg		Delft Univ. of Tech.
Van den Hof, Paul M.J.		Delft Univ. of Tech.
van Eijk, Jan		Delft Univ. of Tech.
16:20-16:40		FrC08.2
<i>Control of Systems with Hysteresis Via Servocompensation and Its Application to Nanopositioning</i> , pp. 6531-6536.		
Esbrook, Alexander		Michigan State Univ.
Guibord, Matt		Michigan State Univ.
Tan, Xiaobo		Michigan State Univ.
Khalil, Hassan K.		Michigan State Univ.
16:40-17:00		FrC08.3
<i>Control of High-Resolution Electrohydrodynamic Jet Printing</i> , pp. 6537-6542.		
Mishra, Sandipan		Univ. of Illinois
Barton, Kira		Univ. of Illinois, Urbana-Champaign
Alleyne, Andrew G.		Univ. of Illinois, Urbana-Champaign
17:00-17:20		FrC08.4
<i>Steering a Ferromagnetic Particle by Magnetic Feedback Control: Algorithm Design and Validation</i> , pp. 6543-6548.		
Komae, Arash		Univ. of Maryland Coll. Park
Shapiro, Benjamin		Univ. of Maryland
17:20-17:40		FrC08.5
<i>Apply Tapping Mode Atomic Force Microscope with CD/DVD Pickup Head in Fluid</i> , pp. 6549-6554.		
Yen, Shih Hsun		National Taiwan Univ.
Wu, Jim Wei		National Taiwan Univ.
Fu, Li-Chen		National Taiwan Univ.
17:40-18:00		FrC08.6
<i>Robust H-Infinity Control of a Scanning Tunneling Microscope under Parametric Uncertainties</i> , pp. 6555-6560.		
Ahmad, Irfan		Univ. Joseph Fourier (UJF Grenoble)
Voda, Alina		UJF
Besancon, Gildas		GIPSA-Lab. Grenoble INP

FrC09		Laurel B
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Time Delay Systems III (Regular Session)		
Chair: Aghdam, Amir G.		Concordia Univ.
Co-Chair: Krstic, Miroslav		Univ. of California at San Diego
16:00-16:20		FrC09.1
<i>Multimodel-Based Techniques for the Identification of the Delay in MIMO Systems</i> , pp. 6561-6566.		
Herrera Cuartas, Jorge		Univ. Aut6noma de Barcelona
Ibeas, Asier		Univ. Aut6noma de Barcelona
Alc6ntara, Salva		Univ. Aut6noma de Barcelona
Vilanova, Ramon		Univ. Aut6noma de Barcelona
16:20-16:40		FrC09.2
<i>On Linear Equivalence for Time-Delay Systems</i> , pp. 6567-6572.		
Califano, Claudia		Univ. di Roma
Marquez-Martinez, Luis Alejandro		CICESE Res. Center
Moog, Claude		CNRS
16:40-17:00		FrC09.3
<i>Improved Jensen Integral Inequality Approach to Stability Analysis of Continuous-Time Systems with Interval Time-Varying Delay</i> , pp. 6573-6578.		
Zhu, Xun-Lin		Nanyang Tech. Univ.
Wang, Youyi		Nanyang Tech. Univ.
17:00-17:20		FrC09.4

<i>Stabilization of Linear Strict-Feedback Systems with Delayed Integrators</i> , pp. 6579-6584.	Univ. of California, San Diego
Bekiaris-Liberis, Nikolaos	Univ. of California at San Diego
Krstic, Miroslav	
17:20-17:40	FrC09.5
<i>Passivity-Based Model Reference Robust Control for a Class of Nonlinear Systems with Input and State Measurement Delays</i> , pp. 6585-6592.	
Rodríguez-Seda, Erick J.	Univ. of Illinois, Urbana-Champaign
López-Montesinos, Pedro Omar	Univ. of Illinois
Stipanovic, Dusan M.	Univ. of Illinois, Urbana-Champaign
Spong, Mark W.	Univ. of Texas at Dallas
17:40-18:00	FrC09.6
<i>Decentralized Fixed Modes for LTI Time-Delay Systems</i> , pp. 6593-6599.	
Momeni, Ahmadreza	Concordia Univ.
Aghdam, Amir G.	Concordia Univ.
Davison, Edward J.	Univ. of Toronto

FrC10 Laurel C
Modeling, Estimation, and Control of Fuel Cells and Batteries (Invited Session)

Chair: Findeisen, Rolf	OVG Univ. Magdeburg
Co-Chair: Chaturvedi, Nalin A.	Robert Bosch LLC
Organizer: Findeisen, Rolf	OVG Univ. Magdeburg
Organizer: Chaturvedi, Nalin A.	Robert Bosch LLC
Organizer: Kienle, Achim	Magdeburg Univ.
16:00-16:20	FrC10.1
<i>Optimal Spatial Distribution of Microstructure in Porous Electrodes for Li-Ion Batteries (I)</i> , pp. 6600-6605.	
Methekar, Ravi N.	Washington Univ. in St. Louis
Boovaragavan, Vijayasekaran	Tennessee Tech. Univ.
Arabandi, Mounika	Tennessee Tech. Univ.
Ramadesigan, Venkatasailanathan	Washington Univ. in St. Louis
Subramanian, Venkat R.	Washington Univ. in St. Louis
Latinwo, Folarin	Univ. of Illinois at Urbana-Champaign
Braatz, Richard D.	Univ. of Illinois, Urbana-Champaign
16:20-16:40	FrC10.2
<i>Parameterization of GDL Liquid Water Front Propagation and Channel Accumulation for Anode Purge Scheduling in Fuel Cells (I)</i> , pp. 6606-6611.	
Siegel, Jason	Univ. of Michigan
Stefanopoulou, Anna G.	Univ. of Michigan
16:40-17:00	FrC10.3
<i>Power System and Controller Design for Hybrid Fuel Cell Vehicles (I)</i> , pp. 6612-6617.	
Ahmed, Syed	IIT
Chmielewski, Donald J.	Illinois Inst. of Tech.
17:00-17:20	FrC10.4
<i>State Estimation of a Reduced Electrochemical Model of a Lithium-Ion Battery (I)</i> , pp. 6618-6623.	
Klein, Reinhardt	Bosch Palo Alto
Chaturvedi, Nalin A.	Robert Bosch LLC
Christensen, Jake	Robert Bosch LLC
Ahmed, Jasim	Program Manager
Findeisen, Rolf	OVG Univ. Magdeburg
Kojic, Aleksandar	Robert Bosch Res. and Tech. Center
17:20-17:40	FrC10.5
<i>Two Degree of Freedom Control Concept for a Hydrogen Production Unit in Fuel Cell Based Power Plants (I)</i> , pp. 6624-6629.	
Weickgenannt, Martin	Univ. Stuttgart
Sawodny, Oliver	Univ. of Stuttgart
17:40-18:00	FrC10.6
<i>Control of a PEM Fuel Cell Based on a Distributed Model (I)</i> , pp. 6630-6635.	
Mangold, Michael	Max Planck Inst. for Dynamics of Complex Tech. Systems

FrC11 Grand Ballroom I
Control Applications VI (Regular Session)

Chair: Judd, Robert P.	Ohio Univ.
Co-Chair: Steinbuch, Maarten	Eindhoven Univ. of Tech.
16:00-16:20	FrC11.1
<i>Attitude Control of Acrobot by Gain Scheduling Control Based on Sum of Squares</i> , pp. 6636-6643.	
Ichihara, Hiroyuki	Meiji Univ.
Kawata, Masakatsu	Maizuru National Coll. of Tech.
16:20-16:40	FrC11.2
<i>Nonlinearities in Industrial Motion Stages - Detection and Classification</i> , pp. 6644-6649.	
Rijlaarsdam, David Jan	Eindhoven Univ. of Tech.
Loon, van, S.J.L.M. (Bas)	Eindhoven Univ. of Tech.
Nuij, Pieter Waltherus Jozef Maria	Eindhoven Univ. of Tech.

Steinbuch, Maarten	Eindhoven Univ. of Tech.
16:40-17:00	FrC11.3
<i>Control of Two Contact Point Sheet Registration Devices for Xerographic Printers</i> , pp. 6650-6655.	
Krucinski, Martin	Xerox Corp.
17:00-17:20	FrC11.4
<i>Signal Flow Graphs Over Max-Plus Algebra and Applications</i> , pp. 6656-6661.	
Imaev, Aleksey	Ohio Univ.
Judd, Robert P.	Ohio Univ.
17:20-17:40	FrC11.5
<i>L1 Adaptive Controller for Systems with Hysteresis Uncertainties</i> , pp. 6662-6667.	
Zou, Xiaotian	Univ. of Connecticut
Cao, Chengyu	Univ. of Connecticut
Hovakimyan, Naira	Univ. of Illinois, Urbana-Champaign
17:40-18:00	FrC11.6
<i>Control Structure and Limitations of Biochemical Networks</i> , pp. 6668-6673.	
López-Caamal, Fernando	National Univ. of Ireland, Maynooth
Oyarzún, Diego	National Univ. of Ireland, Maynooth
Moreno, Jaime A.	Univ. Nacional Autonoma de Mexico-UNAM
Kalamatianos, Dimitrios	National Univ. of Ireland, Maynooth

FrC12	Grand Ballroom II
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Fractional Control (Regular Session)

Chair: Chen, YangQuan	Utah State Univ.
Co-Chair: Pisano, Alessandro	Univ. of Cagliari
16:00-16:20	FrC12.1
<i>Tuning of Fractional PI Controllers for Fractional Order System Models with and without Time Delays</i> , pp. 6674-6679.	
Narang, Anuj	Univ. of Alberta
Shah, Sirish L.	Univ. of Alberta
Chen, Tongwen	Univ. of Alberta
16:20-16:40	FrC12.2
<i>On Second-Order Sliding-Mode Control of Fractional-Order Dynamics</i> , pp. 6680-6685.	
Pisano, Alessandro	Univ. of Cagliari
Rapaic, Milan	Univ. of Novi Sad
Jelicic, Zoran D.	Univ. of Novi Sad
Usai, Elio	Univ. degli Studi di Cagliari
16:40-17:00	FrC12.3
<i>Optimized Fractional Order Conditional Integrator</i> , pp. 6686-6691.	
Luo, Ying	Utah State Univ.
Chen, YangQuan	Utah State Univ.
Pi, Youguo	South China Univ. of Tech. China
Vinagre, B. M.	Univ. de Extremadura
Monje, Concepción A.	Univ. of Extremadura
17:00-17:20	FrC12.4
<i>Sensitivity Function of LTI Fractional Order Dynamic Systems with Respect to the Orders</i> , pp. 6692-6697.	
Li, Yan	Shandong Univ.
Chen, YangQuan	Utah State Univ.
Xue, Dingyu	Northeastern Univ.
17:20-17:40	FrC12.5
<i>Remote Stabilization for Fractional-Order Systems Via Communication Networks</i> , pp. 6698-6703.	
Song, Xiaona	Nanjing U of Sci and Tech. and Utah State Univ.
Tejado, Inés	Univ. of Extremadura
Chen, YangQuan	Utah State Univ.
17:40-18:00	FrC12.6
<i>Comparison between Two Set Membership Methods for Frequency Domain System Identification Using Fractional Models</i> , pp. 6704-6709.	
Khemane, Firas	Bordeaux
Malti, Rachid	Univ. Bordeaux 1
Moreau, Xavier	LAP-Univ. Bordeaux 1
Rad'ssi, Tarek	Univ. Bordeaux 1
Thomassin, Magalie	Bordeaux


FrC13	Grand Ballroom III
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Biological Systems (Regular Session)

Chair: Zhang, Mingjun	The Univ. of Tennessee
Co-Chair: Mazenc, Frederic	INRIA Sophia-Antipolis,
16:00-16:20	FrC13.1
<i>An Integer Programming Approach to Control Problems in Probabilistic Boolean Networks</i> , pp. 6710-6715.	
Kobayashi, Koichi	Japan Adv Inst. of Sci & Tech.
Hiraishi, Kunihiro	JAIST
16:20-16:40	FrC13.2

<i>Dynamic Power Shaping Control of a Continuous Fermentation Process</i> , pp. 6716-6721.	
Liu, Zhitao	Zhejiang Univ.
Su, Hongye	Zhejiang Univ.
16:40-17:00	FrC13.3
<i>Evolutionary Game Theoretical Approach for Understanding CCR5 to CXCR4 Coreceptor Switch</i> , pp. 6722-6727.	
Wu, Jing	The Univ. of Tennessee
Bewick, Sharon	Univ. of Tennessee, Knoxville
Yang, Ruoting	The Univ. of Tennessee, Knoxville
Lenaghan, Scott	The Univ. of Tennessee
Zhang, Mingjun	The Univ. of Tennessee
17:00-17:20	FrC13.4
<i>Military Defense Strategies: An Inspiration from Game Theoretic Analysis of the Immune Defense</i> , pp. 6728-6733.	
Bewick, Sharon	Univ. of Tennessee, Knoxville
Wu, Jing	The Univ. of Tennessee
Hamel, W. R.	Univ. of Tennessee
Zhang, Mingjun	The Univ. of Tennessee
17:20-17:40	FrC13.5
<i>Lyapunov-Based Continuous-Stirred Tank Bioreactor Control to Maximize Biomass Production Using the Haldane and Monod Specific Growth Models</i> , pp. 6734-6739.	
Kapadia, Apoorva	Clemson Univ.
Nath, Nitendra	Clemson Univ.
Burg, Timothy C.	Clemson Univ.
Dawson, Darren M.	Clemson Univ.
17:40-18:00	FrC13.6
<i>Stabilization of Two-Species Chemostats with Delayed Measurements and Haldane Growth Functions</i> , pp. 6740-6744.	
Mazenc, Frederic	Projet INRIA DISCO
Malisoff, Michael	Louisiana State Univ.
FrC14	Grand Ballroom IV
Anti-Windup Compensation for Constrained Control (Invited Session)	
Chair: Turner, Matthew C.	Univ. of Leicester
Co-Chair: Herrmann, Guido	Univ. of Bristol
Organizer: Herrmann, Guido	Univ. of Bristol
Organizer: Turner, Matthew C.	Univ. of Leicester
16:00-16:20	FrC14.1
<i>Robust Anti-Windup Control of SISO Systems (I)</i> , pp. 6745-6750.	
Kerr, Murray Lawrence	Deimos Space
Turner, Matthew C.	Univ. of Leicester
Postlethwaite, Ian	Northumbria Univ.
16:20-16:40	FrC14.2
<i>Scheduled Static Anti-Windup Augmentation Synthesis for Open-Loop Stable Plants (I)</i> , pp. 6751-6756.	
Sajjadi-Kia, Solmaz	Univ. of California at Irvine (UCI)
Jabbari, Faryar	Univ. of California at Irvine
16:40-17:00	FrC14.3
<i>Application of a Novel Robust Anti-Windup Technique to Dynamically Substructured Systems (I)</i> , pp. 6757-6762.	
Li, Guang	Univ. of Bristol
Herrmann, Guido	Univ. of Bristol
Stoten, David P.	Univ. of Bristol
Tu, Jia-Ying	Univ. of Bristol
Turner, Matthew C.	Univ. of Leicester
17:00-17:20	FrC14.4
<i>A Convex Framework for the Design of Dynamic Anti-Windup for State-Delayed Systems (I)</i> , pp. 6763-6768.	
Bender, Fernando Augusto	UFRGS
Gomes Da Silva Jr., Joao Manoel	Univ. Federal do Rio Grande do Sul
Tarbouriech, Sophie	LAAS-CNRS
17:20-17:40	FrC14.5
<i>An Almost Anti-Windup Scheme for Plants with Magnitude, Rate and Curvature Saturation (I)</i> , pp. 6769-6774.	
Forni, Fulvio	Univ. di Roma Tor Vergata
Galeani, Sergio	Univ. Di Roma Tor Vergata
Zaccarian, Luca	Univ. di Roma, Tor Vergata
17:40-18:00	FrC14.6
<i>Generalized Sector Synthesis of Reduced-Order Output Feedback Controllers for Discrete-Time Servosystems with Saturation (I)</i> , pp. 6775-6780.	
Kiyama, Tsuyoshi	Osaka Univ.
Osuka, Koichi	Kobe Univ.
FrC15	Grand Ballroom VII
Sensor Fusion (Regular Session)	
Chair: Becis-Aubry, Yasmina	Univ. d'Orléans, Inst. PRISME UPRES EA 4229
Co-Chair: Castanon, David A.	Boston Univ.

16:00-16:20		FrC15.1
<i>Multisensor Fusion for State Estimation of Linear Models in the Presence of Bounded Disturbances</i> , pp. 6781-6782.		
Becis-Aubry, Yasmina	Univ. d'Orléans, Inst. PRISME UPRES EA 4229	
16:20-16:40		FrC15.2
<i>Attribute-Distributed Learning: The Iterative Covariance Optimization Algorithm and Its Applications</i> , pp. 6783-6788.		
Zheng, Haipeng	Princeton Univ.	
Kulkarni, Sanjeev R.	Princeton Univ.	
Poor, H. Vincent	Princeton Univ.	
16:40-17:00		FrC15.3
<i>On the Time Complexity of Information Dissemination Via Linear Iterative Strategies</i> , pp. 6789-6794.		
Sundaram, Shreyas	Univ. of Waterloo	
Hadjicostis, Christoforos	Univ. of Cyprus	
17:00-17:20		FrC15.4
<i>On-The-Field Calibration of an Array of Sensors</i> , pp. 6795-6802.		
Dorveaux, Eric	MINES ParisTech	
Petit, Nicolas	MINES ParisTech	
Vissiçre, David	SYSNAV	
17:20-17:40		FrC15.5
<i>Robust Hinfinitiy Fusion Filtering for Discrete-Time Nonlinear Delayed Systems with Missing Measurement</i> , pp. 6803-6808.		
Liu, Meiqin	Zhejiang Univ.	
Qiu, Meikang	Univ. of Kentucky	
Zhang, Senlin	Zhejiang Univ.	
Lin, Zhiyun	Zhejiang Univ.	
17:40-18:00		FrC15.6
<i>Receding Horizon Stochastic Control Algorithms for Sensor Management</i> , pp. 6809-6815.		
Castanon, David A.	Boston Univ.	
Hitchings, Darin	Boston Univ.	

FrC16		Grand Ballroom VIII
Control of Multiple Robots (Regular Session)		
Chair: Fierro, Rafael	Univ. of New Mexico	
Co-Chair: Kumar, Manish	Univ. of Cincinnati	
16:00-16:20		FrC16.1
<i>Slip Estimation for Small-Scale Robotic Tracked Vehicles</i> , pp. 6816-6821.		
Dar, Tehmoor	Univ. of Texas at Austin	
Longoria, Raul	Univ. of Texas at Austin	
16:20-16:40		FrC16.2
<i>Velocity Observer Based Control of a Mobile Robot*</i> . 		
Rodríguez-Cortés, Hugo	CINVESTAV-IPN	
Velasco-Villa, Martin	CINVESTAV-IPN	
Aranda-Bricaire, Eduardo	CINVESTAV	
16:40-17:00		FrC16.3
<i>Adaptive Leader-Follower Formation Control for Autonomous Mobile Robots</i> , pp. 6822-6827.		
Guo, Jing	Zhejiang Univ.	
Lin, Zhiyun	Zhejiang Univ.	
Cao, Ming	Univ. of Groningen	
Yan, Gangfeng	Zhejiang Univ.	
17:00-17:20		FrC16.4
<i>Tethering of Mobile Router Networks</i> , pp. 6828-6833.		
Bezzo, Nicola	UNM	
Fierro, Rafael	Univ. of New Mexico	
17:20-17:40		FrC16.5
<i>A Novel Way to Implement Self-Localization in a Multi-Robot Experimental Platform</i> , pp. 6834-6839.		
Zhao, Sheng	Univ. of Cincinnati	
Kumar, Manish	Univ. of Cincinnati	
17:40-18:00		FrC16.6
<i>H-Inf Control for Distributed Multi-Agent Formation Systems with Toeplitz-Based Consensus Algorithms</i> , pp. 6840-6845.		
Huang, Huang	Beijing Inst. of Tech.	
Wu, Qinghe	Beijing Inst. of Tech.	

FrC17		Grand Ballroom IX
Nonlinear Observers III (Regular Session)		
Chair: Dimirovski, Georgi M	Dogus Univ. of Istanbul	
Co-Chair: Straka, Ondrej	Univ. of West Bohemia in Pilsen	
16:00-16:20		FrC17.1
<i>A New Resampling Algorithm for Generic Particle Filters</i> , pp. 6846-6851.		
Fu, Xiaoyan	Beihang Univ. (BUAA)	
Jia, Yingmin	Beihang Univ.	
Du, Junping	Beijing Univ. of Posts and Telecommunications	

Yuan, Shiyong	Henan Pol. Univ.
16:20-16:40	FrC17.2
<i>Estimation of Load Side Position in Indirect Drive Robots by Sensor Fusion and Kalman Filtering</i> , pp. 6852-6857.	
Chen, Wenjie	Univ. of California at Berkeley
Tomizuka, Masayoshi	Univ. of California, Berkeley
16:40-17:00	FrC17.3
<i>Multiple-Model Filtering with Multiple Constraints</i> , pp. 6858-6863.	
Dunik, Jindrich	Univ. of West Bohemia
Simandl, Miroslav	Univ. of West Bohemia in Pilsen
Straka, Ondrej	Univ. of West Bohemia
17:00-17:20	FrC17.4
<i>Hinfini Observers Design for Singular Bilinear Systems</i> , pp. 6864-6869.	
Zerrougui, Mohamed	UHP, NANCY1
Boutat-Baddas, Latifa	Centre de Recherche d'Automatique de Nancy (CRAN)
Darouach, Mohamed	Univ. Henri Poincare-Nancy
Souley Ali, Harouna	Univ. Henri Poincaré
17:20-17:40	FrC17.5
<i>Cholesky-Based Reduced-Rank Square-Root Ensemble Kalman Filtering</i> , pp. 6870-6875.	
Zhou, Yucheng	Chinese Acad. of Forestry
Xu, Jiahe	Chinese Acad. of Forestry
Jing, Yuanwei	Northeastern Univ.
Dimirovski, Georgi M	Dogus Univ. of Istanbul
17:40-18:00	FrC17.6
<i>Extended Target Tracking Using an IMM Based Nonlinear Kalman Filters</i> , pp. 6876-6881.	
Zhou, Yucheng	Chinese Acad. of Forestry
Xu, Jiahe	Chinese Acad. of Forestry
Jing, Yuanwei	Northeastern Univ.
Dimirovski, Georgi M	Dogus Univ. of Istanbul

FrC18	Grand Ballroom X
Finance (Regular Session)	
Chair: Primbs, James A.	Stanford Univ.
Co-Chair: Ye, Jinchun	CTC Holdings
16:00-16:20	FrC18.1
<i>Pricing of American Retail Options</i> , pp. 6882-6887.	
Burton, Christina	Brigham Young Univ.
Heasley, Mckay	Brigham Young Univ.
Humpherys, Jeffrey	Brigham Young Univ.
Li, Jialin	Brigham Young Univ.
16:20-16:40	FrC18.2
<i>The Decibel and Mr. Dow</i> , pp. 6888-6890.	
Messner, William	Carnegie Mellon Univ.
16:40-17:00	FrC18.3
<i>LQR and Receding Horizon Approaches to Multi-Dimensional Option Hedging under Transaction Costs</i> , pp. 6891-6896.	
Primbs, James A.	Stanford Univ.
17:00-17:20	FrC18.4
<i>A Numerical Method for a Continuous-Time Insurance-Consumption-Investment Model</i> , pp. 6897-6903.	
Ye, Jinchun	CTC Holdings
17:20-17:40	FrC18.5
<i>Fluctuations and Limitations of a Multi-Sector Economic Model with Delays</i> , pp. 6904-6909.	
Tonita, Robert	Univ. of Cambridge
Lestas, Ioannis	Univ. of Cambridge
Goncalves, Jorge M.	Univ. of Cambridge
Vinnicombe, Glenn	Univ. of Cambridge
17:40-18:00	FrC18.6
<i>A Confidence Interval Triggering Method for Stock Trading Via Feedback Control</i> , pp. 6910-6916.	
Iwarere, Olusesan	Univ. of Wisconsin
Barmish, B. Ross	Univ. of Wisconsin

FrC19	Dover A
Automotive Systems III (Regular Session)	
Chair: Vahidi, Ardalán	Clemson Univ.
Co-Chair: Das, Tuhin	Rochester Inst. of Tech.
16:00-16:20	FrC19.1
<i>Real-Time Optimal Control of Plug-In Hybrid Vehicles with Trip Preview (I)</i> , pp. 6917-6922.	
Zhang, Chen	Clemson Univ.
Vahidi, Ardalán	Clemson Univ.
16:20-16:40	FrC19.2
<i>Robust Nonlinear Control of Fuel Cell Ultra-Capacitor Hybrid System</i> , pp. 6923-6929.	

Allag, Tahar	Rochester Inst. of Tech.
Das, Tuhin	Rochester Inst. of Tech.
16:40-17:00	FrC19.3
<i>A Reference Governor Approach for Dynamic Reconfiguration of Hybrid Power Systems</i> , pp. 6930-6935.	
Seenumani, Gayathri	The Univ. of Michigan
Sun, Jing	Univ. of Michigan
Peng, Huei	Univ. of Michigan
17:00-17:20	FrC19.4
<i>A Method to Estimate the Lateral Tire Force and the Sideslip Angle of a Vehicle: Experimental Validation</i> , pp. 6936-6942.	
Doumiati, Moustapha	Univ. Univ. de Tech. de Compiègne
Victorino, Alessandro	Univ. Univ. de Tech. de Compiègne
Charara, Ali	UMR CNRS 6599
Lechner, Daniel	INRETS MA
17:20-17:40	FrC19.5
<i>Position Control of a 6x6 ATV Using a MIMO Fuzzy Controller</i> , pp. 6943-6948.	
Gariepy, Ryan	Univ. of Waterloo
Waslander, Steven L.	Univ. of Waterloo
17:40-18:00	FrC19.6
<i>A Pre-Crash Discrimination System for an Airbag Crash Algorithm (I)</i> , pp. 6949-6954.	
Cho, Kwanghyun	Korea Advanced Inst. of Science and Tech.
Choi, Seibum Ben	KAIST
Yun, You-Sik	Hyundai motors
Shin, Kyung-Jae	Hyundai motors

FrC20	Dover B
Target Tracking (Regular Session)	
Chair: Najjaran, Homayoun	Univ. of British Columbia Okanagan
Co-Chair: Vela, Patricio A.	Georgia Inst. of Tech.
16:00-16:20	FrC20.1
<i>Visual Closed-Loop Tracking with Area Stabilization</i> , pp. 6955-6961.	
Karasev, Peter	Georgia Inst. of Tech.
Serrano, Miguel	Georgia Inst. of Tech.
Vela, Patricio A.	Georgia Inst. of Tech.
Tannenbaum, Allen	Georgia Tech.
16:20-16:40	FrC20.2
<i>Structure and Motion Estimation of a Moving Object Using a Moving Camera</i> , pp. 6962-6967.	
Dani, Ashwin	Univ. of Florida
Kan, Zhen	Univ. of Florida
Fischer, Nicholas	Univ. of Florida
Dixon, Warren E.	Univ. of Florida
16:40-17:00	FrC20.3
<i>Vision-Based Tracking and Estimation of Ground Moving Target Using Unmanned Aerial Vehicle</i> , pp. 6968-6973.	
Zhang, Mingfeng	Univ. of Toronto
Liu, Hugh Hong-Tao	Univ. of Toronto
17:00-17:20	FrC20.4
<i>A Bank of Maximum a Posteriori Estimators for Single-Sensor Range-Only Target Tracking</i> , pp. 6974-6980.	
Huang, Guoquan	Univ. of Minnesota
Zhou, Ke	Univ. of Minnesota
Trawny, Nikolas	Univ. of Minnesota
Roumeliotis, Stergios	Univ. of Minnesota
17:20-17:40	FrC20.5
<i>Tracking Evasive Object Via Search Allocation Game (I)</i> , pp. 6981-6986.	
Chen, Huimin	Univ. of New Orleans
Shen, Dan	DCM Res. Res. LLC
Chen, Genshe	DCM Res. Res. LLC
Blasch, Erik	AFRL/SNAT
Pham, Khanh D.	AIR FORCE Res. Lab.
17:40-18:00	FrC20.6
<i>A Higher Order Rao-Blackwellized Particle Filter for Monocular Vslam</i> , pp. 6987-6992.	
Farrokhsiar, Morteza	School of Engineering, UBC Okanagan
Najjaran, Homayoun	Univ. of British Columbia Okanagan

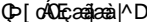
FrC21	Dover C
Process Monitoring and Fault Diagnosis (Regular Session)	
Chair: Zhang, Xiaodong	Wright State Univ.
Co-Chair: Wang, Jin	Auburn Univ.
16:00-16:20	FrC21.1
<i>Fault Progression Modeling: An Application to Bearing Diagnosis and Prognosis</i> , pp. 6993-6998.	
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Lyes, Nechak Djennoune, Sodd Bettayeb, Maamar	Mouloud Mammeri Univ. Univ. of Mouloud Mammeri, Tizi-Ouzou Univ. of Sharjah
16:40-17:00 <i>Optimal Controller for Unmeasured Stochastic Polynomial System States with State-Dependent Polynomial Input</i> , pp. 7034-7039.	FrC22.3
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