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Co-Chair: Khorrami, Farshad	Pol. Inst. of NYU
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Martinez, Sonia	Univ. of California at San Diego

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Koutsoukos, Xenofon		Vanderbilt Univ.

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Chen, Jie		Beijing Inst. of Tech.
Liu, Guoping		Univ. of Glamorgan
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Palmor, Zalman J.		Tech.
Shneiderman, Dmitry		Tech. – IIT
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Fioravanti, Andre R.		INRIA Rocquencourt
Partington, Jonathan R.		Univ. of Leeds
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Gouaisbaut, Frederic		Univ. of Toulouse, LAAS CNRS
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Ni, Suhong		Hebei Univ. of Science and Tech.
Ma, Haiping		Shaoxing Univ.

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Co-Chair: Moreau, Didier		CEA
Organizer: Schuster, Eugenio		Lehigh Univ.
Organizer: Mazon, Didier		CEA Cadarache

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Blum, Jacques		Univ. de Nice Sophia-Antipolis
Boulbe, Cedric		Univ. de Nice Sophia-Antipolis
Faugeras, Blaise		Univ. de Nice Sophia-Antipolis
Boboc, Alexandru		EURATOM/UKAEA
Brix, Mathias		UKAEA
De Vries, Peter		UKAEA
Sharapov, Sergei		UKAEA
Zabeo, Luca		UKAEA
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Goniche, Marc		CEA
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Pironti, Alfredo		Univ. degli Studi di Napoli Federico II
Varano, Gianluca		Univ. di Roma Tor Vergata
Zaccarian, Luca		Univ. di Roma, Tor Vergata
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Co-Chair: Song, Chonghui		Northeastern Univ.
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Patre, Parag		Univ. of Florida
Johnson, Marcus		Univ. of florida
Dixon, Warren E.		Univ. of Florida
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Patre, Parag		Univ. of Florida
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Chair: James, Matthew R.	Australian National Univ.
Co-Chair: Mirrahimi, Mazyar	INRIA Rocquencourt
Organizer: James, Matthew R.	Australian National Univ.
Organizer: Mirrahimi, Mazyar	INRIA Rocquencourt
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Sigalotti, Mario	INRIA Nancy - Grand Est
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Pereira da Silva, Paulo Sergio	Univ. de Sao Paulo
Rouchon, Pierre	Mines ParisTech
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Chambrion, Thomas	Univ. of Nancy
Mason, Paolo	Supélec
Sigalotti, Mario	INRIA Nancy - Grand Est
Sugny, Dominique	Inst. Carnot de Bourgogne
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Borrelli, Francesco	University of California at Berkeley
Hencey, Brandon	Cornell Univ.
Packard, Andrew K.	Univ. of California at Berkeley
Bortoff, Scott A.	United Tech. Res. Center
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Mao, Kezhi	Nanyang Tech. Univ.
Zhou, Xiaojie	Northeastern Univ.
Chai, Tianyou	Northeastern Univ.
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Fan, Yugang	Kunming Univ. of Science and Tech.
Wang, Haiqing	Zhejiang Univ.
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Besancon, Gildas	GIPSA-Lab. Grenoble INP
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Edwards, Farrell		Utah State Univ.

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Iterative Learning Control (Regular Session)	
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Co-Chair: Moore, Kevin L.		Colorado School of Mines
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Banjerdpongchai, David		Chulalongkorn Univ.
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Xu, Jian-Xin		National Univ. of Singapore
Hou, Zhongsheng		Beijing Jiaotong Univ.
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Yan, Rui		Inst. for Infocomm Res. and
Xu, Jian-Xin		National Univ. of Singapore
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Omer, El-Sharif		Colorado School of Mines
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Xu, Jian-Xin		National Univ. of Singapore
Hou, Zhongsheng		Beijing Jiaotong Univ.
11:50-12:10		WeA13.6
<i>ILC Applied to a Flexible Two-Link Robot Model Using Sensor-Fusion-Based Estimates</i> , pp. 458-463.		
Wallén, Johanna		Linköping Univ.
Gunnarsson, Svante		Linköping Univ.
Henriksson, Robert		Linköping Univ.
Moberg, Stig		ABB Robotics
Norrlöf, Mikael		Linköping Univ.

WeA14		5B
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Model Uncertainty and Input Design (Invited Session)	
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Chair: Hjalmarsson, Håkan		Royal Inst. of Tech.
Co-Chair: Rojas, Cristian R.		ACCESS Linnaeus Center, KTH
Organizer: Hjalmarsson, Håkan		Royal Inst. of Tech.
Organizer: Rojas, Cristian R.		ACCESS Linnaeus Center, KTH
10:10-10:30		WeA14.1
<i>A Guide to the Design and Selection of Perturbation Signals (I)</i> , pp. 464-469.		
Tan, Ai Hui		Multimedia Univ.
Godfrey, Keith		Univ. of Warwick
10:30-10:50		WeA14.2
<i>Plant-Friendly Signal Generation for System Identification Using a Modified SPSA Methodology (I)</i> , pp. 470-475.		
Steenis, Richard		Arizona State Univ.
Rivera, Daniel E.		Arizona State Univ.
10:50-11:10		WeA14.3
<i>Input Design for Asymptotic Robust H_2-Filtering (I)</i> , pp. 476-481.		
Rojas, Cristian R.		ACCESS Linnaeus Center, KTH
Hjalmarsson, Håkan		Royal Inst. of Tech.
11:10-11:30		WeA14.4
<i>Fundamental Limitations on the Accuracy of MIMO Linear Models Obtained by PEM for Systems Operating in Open Loop (I)</i> , pp. 482-487.		
Agüero, Juan C.		Univ. of Newcastle
Rojas, Cristian R.		ACCESS Linnaeus Center, KTH
Goodwin, Graham C.		Univ. of Newcastle
11:30-11:50		WeA14.5
<i>MIMO Experiment Design Based on Asymptotic Model Order Theory (I)</i> , pp. 488-493.		
Rojas, Cristian R.		ACCESS Linnaeus Center, KTH
Hjalmarsson, Håkan		Royal Inst. of Tech.
Hildebrand, Roland		Univ. Grenoble 1/CNRS

11:50-12:10 WeA14.6
Effect of Model Structure and Signal-To-Noise Ratio on Finite-Time Uncertainty Bounding in Prediction Error Identification (I), pp. 494-499.
 Bombois, Xavier Delft Univ. of Tech.
 den Dekker, Arnold J. Delft Univ. of Tech.
 Barenthin, Märta KTH
 Van den Hof, Paul M.J. Delft Univ. of Tech.

WeA15 3B
Stochastic Control I (Regular Session)

Chair: Dufour, Francois Univ. Bordeaux 1
 Co-Chair: Miller, Gregory Inst. of Informatics Problems of RAS

10:10-10:30 WeA15.1
H_∞ Dynamic Output Feedback Control of Switched Stochastic Systems, pp. 500-505.
 Wu, Ligang Harbin Inst. of Tech.
 Ho, Daniel W. C. City Univ. of Hong Kong
 Li, Cw City Univ. of Hong Kong

10:30-10:50 WeA15.2
The Policy Iteration Algorithm for Average Continuous Control of Piecewise Deterministic Markov Processes, pp. 506-511.
 Costa, Oswaldo Luiz V. Univ. of Sao Paulo
 Dufour, Francois Univ. Bordeaux 1

10:50-11:10 WeA15.3
Optimal Control of Markov Chains with Constraints, pp. 512-518.
 Miller, Boris Monash Univ.
 Miller, Gregory Inst. of Informatics Problems of RAS
 Siemenikhin, Konstantin V. Moscow Aviation Inst.

11:10-11:30 WeA15.4
Discrete-Time Stochastic Optimal Control Via Occupation Measures and Moment Relaxations, pp. 519-524.
 Savorgnan, Carlo Katholieke Univ. Leuven
 Lasserre, Jean B. LAAS-CNRS and Inst. of Mathematics, Univ. of Toulouse
 Diehl, Moritz Katholieke Univ. Leuven

11:30-11:50 WeA15.5
A New Model of Continuous-Time Markov Processes and Impulse Stochastic Control, pp. 525-530.
 Cao, Xi-Ren Hong Kong Univ. of Sci. & Tech.

11:50-12:10 WeA15.6
On Stochastic Control up to a Hitting Time, pp. 531-536.
 Chatterjee, Debasish ETH Zurich
 Cinquemani, Eugenio ETH Zurich
 Chaloulos, Georgios Swiss Federal Inst. of Tech.
 Lygeros, John ETH Zurich

WeA16 5F
Optimization Based Control Approaches to Networked and Decentralized Systems (Invited Session)

Chair: Gruene, Lars Univ. of Bayreuth
 Co-Chair: Findeisen, Rolf OVG Univ. Magdeburg
 Organizer: Findeisen, Rolf OVG Univ. Magdeburg
 Organizer: Gruene, Lars Univ. of Bayreuth

10:10-10:30 WeA16.1
A Prediction Based Control Scheme for Networked Systems with Delays and Packet Dropouts (I), pp. 537-542.
 Gruene, Lars Univ. of Bayreuth
 Pannek, Juergen Univ. of Bayreuth
 Worthmann, Karl Univ. of Bayreuth

10:30-10:50 WeA16.2
Distributed Nonlinear Optimal Control Using Sequential Convex Programming and Smoothing Techniques (I), pp. 543-548.
 Necoara, Ion Univ. Pol. Bucharest
 Savorgnan, Carlo Katholieke Univ. Leuven
 Tran, Dinh Quoc Katholieke Univ. Leuven, Belgium
 Suykens, J.A.K. Katholieke Univ. Leuven
 Diehl, Moritz Katholieke Univ. Leuven

10:50-11:10 WeA16.3
Gradient Methods for Iterative Distributed Control Synthesis (I), pp. 549-554.
 Martensson, Karl Lund Univ.
 Rantzer, Anders Lund Univ.

11:10-11:30 WeA16.4
Networked MPC for Constrained Linear Systems: A Recursive Feasibility Approach (I), pp. 555-560.
 Pin, Gilberto Danieli Automation S.p.A. (Italy)
 Filippo, Marco Univ. of Trieste
 Parisini, Thomas Univ. of Trieste

11:30-11:50 WeA16.5
Distributed Predictive Control of Communicating and Platooning Vehicles (I), pp. 561-566.

Dold, Johannes	Univ. of Kassel
Stursberg, Olaf	Univ. of Kassel
11:50-12:10	WeA16.6
<i>Event-Base Model Predictive Control for Networked Control Systems (I)</i> , pp. 567-572.	
Varutti, Paolo	Otto-von-Guericke Univ. of Magdeburg
Kern, Benjamin	Otto-von-Guericke Univ. Magdeburg
Faulwasser, Timm	Otto-von-Guericke Univ. Magdeburg
Findeisen, Rolf	OVG Univ. Magdeburg

WeA17 5H

Networks I (Regular Session)

Chair: Gu, Danying	Shanghai Jiaotong Univ.
Co-Chair: Bao, Lei	Royal Inst. of Tech. (KTH)
10:10-10:30	WeA17.1
<i>Optimized Rate Allocation for State Feedback Control Over Noisy Channels</i> , pp. 573-578.	
Bao, Lei	Royal Inst. of Tech. (KTH)
Skoglund, Mikael	Royal Inst. of Tech.
Fischione, Carlo	Royal Inst. of Tech.
Johansson, Karl H.	Royal Inst. of Tech.
10:30-10:50	WeA17.2
<i>Leader-Following Formation Control of Multiple Vision-Based Autonomous Robotic Fish</i> , pp. 579-584.	
Zhao, Wei	Peking Univ.
Hu, Yonghui	Peking Univ.
Wang, Long	Peking Univ.
10:50-11:10	WeA17.3
<i>Fair Resource Allocation Using Bargaining Over OFDMA Relay Networks</i> , pp. 585-590.	
Yang, Bo	City Univ. of Hong Kong
Feng, Gang	City Univ. of Hong Kong
Guan, Xinping	Yanshan Univ.
11:10-11:30	WeA17.4
<i>Optimization of Postal Express Mail Network Based on Swarm Intelligence</i> , pp. 591-596.	
Song, Qing	Shanghai Jiao Tong Univ.
Wang, Xiaofan	Shanghai Jiao Tong Univ.
Li, Xiao-Lei	Shandong Univ.
Zhang, Cheng-Jin	Shandong Univ.
11:30-11:50	WeA17.5
<i>A $\{0, 1\}$ Linear Program for Fixed-Profile Load Scheduling and Demand Management in Automated Irrigation Channels</i> , pp. 597-602.	
Alende, Julien	Rubicon System Australia
Li, Yuping	Univ. of Melbourne
Cantoni, Michael	Univ. of Melbourne
11:50-12:10	WeA17.6
<i>Design of an Hinf Based PI Controller for AQM Routers Supporting TCP Flows</i> , pp. 603-608.	
Gu, Danying	Shanghai Nuclear Engineering Res. and Design Inst.
Zhang, Weidong	Shanghai Jiaotong Univ.

WeA18 5I

Synchronization and Interconnected Systems (Regular Session)

Chair: Arcak, Murat	Univ. of California, Berkeley
Co-Chair: Liu, Derong	Univ. of Illinois at Chicago
10:10-10:30	WeA18.1
<i>Synchronization of Interconnected Systems with an Input-Output Approach. Part I: Main Results</i> , pp. 609-614.	
Scardovi, Luca	Princeton Univ.
Arcak, Murat	Univ. of California, Berkeley
Sontag, Eduardo D.	Rutgers Univ.
10:30-10:50	WeA18.2
<i>Synchronization of Interconnected Systems with an Input-Output Approach. Part II: State-Space Result and Application to Biochemical Networks</i> , pp. 615-620.	
Scardovi, Luca	Princeton Univ.
Arcak, Murat	Univ. of California, Berkeley
Sontag, Eduardo D.	Rutgers Univ.
10:50-11:10	WeA18.3
<i>Synchronization Stability of Complex Dynamical Networks with Probabilistic Time-Varying Delays</i> , pp. 621-625.	
Li, Hongjie	Donghua
Yue, Dong	Nanjing Normal Univ.
Gu, Zhou	Nanjing Univ. of Aeronautics Astronautics
11:10-11:30	WeA18.4
<i>A Novel LMI Approach to Global Impulsive Exponential Synchronization of Chaotic Delayed Neural Networks</i> , pp. 626-631.	
Ma, Tiedong	Northeastern Univ.
Zhang, Huaguang	Northeastern Univ.

Liu, Derong	Univ. of Illinois at Chicago
Wang, Zhiliang	Northeastern Univ.
11:30-11:50	WeA18.5
<i>Interconnection of Subsystems in Closed-Loop Systems</i> , pp. 632-637.	
Niemann, Henrik	Tech. Univ. of Denmark
Poulsen, Niels Kjrlstad	Tech. Univ. of Denmark
11:50-12:10	WeA18.6
<i>Integral Input-To-State Stability of Interconnected IISS Systems by Means of a Lower-Dimensional Comparison System</i> , pp. 638-643.	
Rüffer, Björn Sebastian	Univ. of Melbourne
Kellett, Christopher	Univ. of Newcastle
Weller, Steven R.	Univ. of Newcastle

WeTATu Yellow River
Standardization of Control Design Methodologies in the Automotive Industry (Tutorial Session)

Chair: Kolmanovsky, Ilya V.	Ford Motor Co.
Co-Chair: Ohata, Akira	Toyota Motor Corp.
10:10-10:50	WeTATu.1
<i>Control Design in Model-Based Development (MBD) Framework (I)*</i> .	
Ohata, Akira	Toyota Motor Corp.
10:50-11:10	WeTATu.2
<i>Model Predictive Control (I)*</i> .	
Allgower, Frank	Univ. of Stuttgart
11:10-11:30	WeTATu.3
<i>Model Predictive Control and MBD Framework for Gasoline Engines (I)*</i> .	
Kolmanovsky, Ilya V.	Ford Motor Co.
11:30-11:50	WeTATu.4
<i>Model Predictive Control and MBD Framework for Diesel Engines (I)*</i> .	
Del Re, Luigi	Johannes Kepler Univ. Linz
11:50-12:10	WeTATu.5
<i>Panel Discussion (I)*</i> .	
Kolmanovsky, Ilya V.	Ford Motor Co.
Ohata, Akira	Toyota Motor Corp.

WeAIn1 Mandarin Hall
Robust Control I (Interactive Session)

10:30-11:50	WeAIn1.1
<i>Robust H_{∞} Synchronization of Chaotic Pendulum-Like Systems</i> , pp. 644-649.	
Xu, Shiyun	Peking Univ.
Yang, Ying	Peking Univ.
10:30-11:50	WeAIn1.2
<i>Neo-Robust Control Theory for Factorized Uncertainty</i> , pp. 650-655.	
Liu, Kang-Zhi	Chiba Univ.
Shirnen, Buyanjargal	Chiba Univ.
10:30-11:50	WeAIn1.3
<i>Synthesis of Positive Controls for the Global CLF Stabilization of Systems</i> , pp. 656-660.	
Leyva, Horacio	Sonora Univ.
10:30-11:50	WeAIn1.4
<i>A Control Framework for Robust Practical Tracking of Hybrid Automata</i> , pp. 661-666.	
Marconi, Lorenzo	Univ. di Bologna
Naldi, Roberto	Univ. di Bologna
Gentili, Luca	Univ. of Bologna
10:30-11:50	WeAIn1.5
<i>Design of a Modified Repetitive Control System Using State Feedback Based on Two-Dimensional Hybrid Model</i> , pp. 667-672.	
Zhang, Jie	Central South Univ.
Wu, Min	Central South Univ.
Chen, Shihuan	Central South Univ.
She, Jin-Hua	Tokyo Univ. of Tech.
He, Yong	Central South Univ.
10:30-11:50	WeAIn1.6
<i>Robust Moving Horizon Estimation for System with Uncertain Measurement Output</i> , pp. 673-677.	
Zhao, Haiyan	JiLin Univ. campus Nan Ling
Chen, Hong	Jilin Univ. Campus NanLing
Ma, Yan	JiLin Univ.
10:30-11:50	WeAIn1.7
<i>Performance Oriented High Gain Redesigns for FACTS-Controlled SMIB Power Systems</i> , pp. 678-683.	
Chakraborty, Aranya	Texas Tech. Univ.
Mesbahi, Mehran	Univ. of Washington
10:30-11:50	WeAIn1.8

<i>On the Model-Based Networked Control for Singularly Perturbed Systems with Nonlinear Uncertainties</i> , pp. 684-689.	
Yu, Hongwang	Nanjing Audit Univ.
Zhang, Xiaomei	Nantong Univ.
Lu, Guoping	Nantong Univ.
Zheng, Yu Fan	East China Normal Univ.
10:30-11:50	WeAIn1.9
<i>Tuning of Dynamical Controllers by a Data-Driven Loop-Shaping Method for a Single Input Plant</i> , pp. 690-695.	
Saeki, Masami	Hiroshima Univ.
Sugitani, Yosuke	Hiroshima Univ.
10:30-11:50	WeAIn1.10
<i>Lateral Flight Control Design for a Highly Flexible Aircraft Using a Nonsmooth Method</i> , pp. 696-701.	
Simoes, Alberto	ONERA
Alazard, Daniel	ISAE
Tuan, Hoang Duong	The Univ. of New South Wales
Apkarian, Pierre	UPS
10:30-11:50	WeAIn1.11
<i>Further Results on Periodically Time-Varying Memory State-Feedback Controller Synthesis for Discrete-Time Linear Systems</i> , pp. 702-707.	
Ebihara, Yoshio	Kyoto Univ.
Kuboyama, Yuki	Kyoto Univ.
Hagiwara, Tomomichi	Kyoto Univ.
Peaucelle, Dimitri	LAAS-CNRS, Univ. de Toulouse
Arzelier, Denis	LAAS-CNRS
10:30-11:50	WeAIn1.12
<i>A New Perspective on Control of Uncertain Complex Systems</i> , pp. 708-713.	
Li, Jr-Shin	Washington Univ. in St. Louis
10:30-11:50	WeAIn1.13
<i>Two Degree of Freedom Robust Optimal Control Design Using a Linear Matrix Inequality Optimization</i> , pp. 714-719.	
Lee, Chibum	Univ. of Illinois, Urbana-Champaign
Salapaka, Srinivasa	Univ. of Illinois
Voulgaris, Petros G.	Univ. of Illinois, Urbana-Champaign
10:30-11:50	WeAIn1.14
<i>Robust Minimax Optimal Control of Nonlinear Uncertain Systems Using Feedback Linearization with Application to Hypersonic Flight Vehicles</i> , pp. 720-726.	
Rehman, Obaid Ur	Univ. of New South Wales at Australian Defence Force Acad.
Fidan, Baris	National ICT Australia
Petersen, Ian R.	UNSW at Australian Def. Force Acad.
WeAIn2	Mandarin Hall
Precision Manufacturing Systems and Aerospace Applications (Interactive Session)	
10:30-11:50	WeAIn2.1
<i>Neural Modeling of Rate-Dependent and Asymmetric Hysteresis in Ultrasonic Motors</i> , pp. 727-732.	
Tan, Yonghong	Shanghai Normal Univ.
Zhang, Xinlian	Shanghai Normal Univ.
Su, Chun-Yi	Concordia Univ.
10:30-11:50	WeAIn2.2
<i>Ito Stochastic Modeling for Attitude Quaternion Filtering</i> , pp. 733-738.	
Choukroun, Daniel	Ben-Gurion Univ. of the Negev
10:30-11:50	WeAIn2.3
<i>Neural Networks Based Model for Sandwich System with Hysteresis</i> , pp. 739-743.	
Tan, Yonghong	Shanghai Normal Univ.
Dong, Ruili	Shanghai Normal Univ.
Tan, Qingyuan	Shanghai Jiaotong Univ.
10:30-11:50	WeAIn2.4
<i>Adaptive Control for Plants in the Presence of Actuator and Sensor Hysteresis Nonlinearities</i> , pp. 744-749.	
Chen, Xinkai	Shibaura Inst. of Tech.
Ozaki, Toshikuni	Shibaura Inst. of Tech.
10:30-11:50	WeAIn2.5
<i>A Novel Learning Control Strategy for Hysteresis and Vibration of Piezo-Scanners</i> , pp. 750-755.	
Zhang, Yudong	Nankai Univ.
Fang, Yongchun	Nankai Univ.
Dong, Xiaokun	Nankai Univ.
Zhou, Xianwei	Nankai Univ.
10:30-11:50	WeAIn2.6
<i>Model Validation for an AMB-Based Compressor Surge Control Test Rig</i> , pp. 756-761.	
Yoon, Se Young (Pablo)	Univ. of Virginia
Lin, Zongli	Univ. of Virginia
Lim, Kien Tien	Univ. of Virginia
Goyne, Chris	Univ. of Virginia
Allaire, Paul	Univ. of Virginia

10:30-11:50		WeAIn2.7
<i>Capture Region of a 3D PPN Guidance Law for Intercepting High Speed Targets</i> , pp. 762-767.		
Tyan, Feng		Tamkang Univ.
10:30-11:50		WeAIn2.8
<i>Stability and Noises Evaluation of Fuzzy/Kalman UAV Navigation System</i> , pp. 768-775.		
Raimondi, Francesco Maria		Univ. of Palermo
Melluso, Maurizio		Univ. of Palermo
10:30-11:50		WeAIn2.9
<i>Standoff Tracking Control of Moving Target in Unknown Wind</i> , pp. 776-781.		
Zhu, Sen Qiang		NANYANG Tech. Univ.
Wang, Danwei		Nanyang Tech. Univ.
10:30-11:50		WeAIn2.10
<i>Active Flutter Suppression Using Robust Adaptive Switching Control</i> , pp. 782-787.		
Li, Guang	Beihang Univ. School of Automation Science and Electrical Eng	
Dong, Chaoyang	Beihang Univ. School of Automation Science and Electrical E	
Hou, Yanze	Beihang Univ. School of Automation Science and Electrical En	
Wang, Qing	Beihang Univ. School of Automation Science and Electrical	
WeAIn3		Mandarin Hall
Adaptive Control I (Interactive Session)		
10:30-11:50		WeAIn3.1
<i>Nonlinear-Proportional-Derivative-Type Fault-Tolerant Control for Flexible Spacecraft Attitude Maneuvers</i> , pp. 788-793.		
Hu, Qinglei		Harbin Inst. of Tech.
10:30-11:50		WeAIn3.2
<i>Methodologies for the Adaptive Compression of Video Sequences</i> , pp. 794-799.		
Cenedese, Angelo		Univ. of Padova
Marcon, Riccardo		Univ. of Padova
10:30-11:50		WeAIn3.3
<i>Temperature Regulation Using Supervised Adaptive Control</i> , pp. 800-804.		
Chang, Yau-Zen		Chang Gung Univ.
Tsai, Zhi-Ren		Asia Univ.
10:30-11:50		WeAIn3.4
<i>Unfalsified Adaptive Switching Supervisory Control of Time Varying Systems</i> , pp. 805-810.		
Battistelli, Giorgio		Univ. of Firenze
Hespanha, Joao P.	Univ. of California, Santa Barbara	
Mosca, Edoardo		Univ. of Florence
Tesi, Pietro		Univ. of Florence
10:30-11:50		WeAIn3.5
<i>Implicit Control of Mobile Under-Actuated Manipulators Using Support Vector Machine</i> , pp. 811-816.		
Zhang, Jingjing		Shanghai Jiaotong Univ.
Li, Zhijun		Shanghai Jiao Tong Univ.
Luo, Jun		shanghai Univ.
10:30-11:50		WeAIn3.6
<i>Additive Decomposition and Its Applications to Internal-Model-Based Tracking</i> , pp. 817-822.		
Quan, Quan	Beijing Univ. of Aeronautics and Astronautics	
Cai, Kai-Yuan	School of Automation, Beijing Univ. of Aeronautics and Astr	
10:30-11:50		WeAIn3.7
<i>Discrete-Time MRAC Schemes Using Sensor Uncertainty Compensation with Application to Artificial Pancreas</i> , pp. 823-828.		
Li, Shanshan		Univ. of Virginia
Tao, Gang		Univ. of Virginia
Liu, Yu		Univ. of Virginia
10:30-11:50		WeAIn3.8
<i>Indirect Self-Tuning Control of a Nonlinear Non-Minimum Phase System</i> , pp. 829-834.		
Fu, Yue		Northeastern Univ.
Chai, Tianyou		Northeastern Univ.
10:30-11:50		WeAIn3.9
<i>Algorithms for Turbulence Compensation in Large Adaptive Optics Systems</i> , pp. 835-840.		
Beghi, Alessandro		Univ. di Padova
Cenedese, Angelo		Univ. of Padova
Masiero, Andrea		Univ. di Padova
10:30-11:50		WeAIn3.10
<i>Approximation-Based Adaptive Tracking Control of Pure-Feedback Nonlinear Systems with Multiple Unknown Time-Varying Delays</i> , pp. 841-846.		
Wang, Min		South China Univ. of Tech.
Ge, Shuzhi Sam		National Univ. of Singapore
10:30-11:50		WeAIn3.12
<i>Set-Membership Identification Based Adaptive Robust Control of Systems with Unknown Parameter Bounds</i> , pp. 847-852.		
Lu, Lu		Purdue Univ. West Lafayette

Yao, Bin

Purdue Univ.

WeAIn4

Mandarin Hall

Cooperative Control and Sensor Networks (Interactive Session)

10:30-11:50		WeAIn4.1
<i>Decentralized Cooperative Attitude Tracking Using Modified Rodriguez Parameters</i> , pp. 853-858.		
Meng, Ziyang		Tsinghua Univ.
Ren, Wei		Utah State Univ.
You, Zheng		Tsinghua Univ.
10:30-11:50		WeAIn4.2
<i>Splitting Rigid Formations</i> , pp. 859-864.		
Ong, Wilson	The Univ. of Western Australia	
Yu, CHANGBIN (Brad)	The Australian National Univ.	
Anderson, Brian D.O.	Australian National Univ.	
10:30-11:50		WeAIn4.3
<i>Analyzing Error Propagation in Range-Based Multihop Sensor Localization</i> , pp. 865-870.		
Huang, Baoqi	Australian National Univ.	
Yu, CHANGBIN (Brad)	The Australian National Univ.	
Anderson, Brian D.O.	Australian National Univ.	
10:30-11:50		WeAIn4.4
<i>Analysis of Accelerated Gossip Algorithms</i> , pp. 871-876.		
Liu, Ji	Yale Univ.	
Anderson, Brian D.O.	Australian National Univ.	
Cao, Ming	Univ. of Groningen	
Morse, A. Stephen	Yale Univ.	
10:30-11:50		WeAIn4.5
<i>Cooperative Gain Output Feedback Stabilization for Multi-Agent Dynamical Systems</i> , pp. 877-882.		
Hara, Shinji	The Univ. of Tokyo	
Kanno, Masaaki	Niigata Univ.	
Tanaka, Hideaki	The Univ. of Tokyo	
10:30-11:50		WeAIn4.6
<i>Second-Order Consensus for Networks of Agents with Fixed and Switching Topology</i> , pp. 883-888.		
Qin, Jiahu	Harbin Inst. of Tech. Harbin, P.R.China	
Gao, Huijun	Harbin Inst. of Tech.	
Zheng, Wei Xing	Univ. of Western Sydney	
10:30-11:50		WeAIn4.7
<i>Aggregation of Multiple Agents with First-Order Dynamics and Finite Size Body</i> , pp. 889-894.		
Cao, Li	East China Normal Univ.	
Zheng, Yu Fan	East China Normal Univ.	
Zhou, Qing	East China Normal Univ.	
Zhang, Xiaomei	Nantong Univ.	
10:30-11:50		WeAIn4.8
<i>Distributed Coordination of Multi-Agent Systems with Switching Structure and Input Saturation</i> , pp. 895-900.		
Shi, Guodong	Chinese Acad. of Sciences	
Hong, Yiguang	Chinese Acad. of Sciences	
10:30-11:50		WeAIn4.9
<i>Distributed Image-Based 3-D Localization in Camera Sensor Networks</i> , pp. 901-908.		
Tron, Roberto	Johns Hopkins Univ.	
Vidal, Rene	Johns Hopkins Univ.	
10:30-11:50		WeAIn4.10
<i>Aggregation and Compression of Distributed Binary Decisions in a Wireless Sensor Network</i> , pp. 909-913.		
Gubner, John A.	Univ. of Wisconsin-Madison	
Chong, Edwin K. P.	Colorado State Univ.	
Scharf, Louis L.	Colorado State Univ.	
10:30-11:50		WeAIn4.11
<i>Perturbation Analysis and Optimization of Multiclass Multiobjective Stochastic Flow Models</i> , pp. 914-919.		
Yao, Chen	Boston Univ.	
Cassandras, Christos G.	Boston Univ.	
10:30-11:50		WeAIn4.12
<i>Power Constrained Dynamic Quantizer Design for Multisensor Estimation of HMMs with Unknown Parameters</i> , pp. 920-927.		
Ghasemi, Nader	Univ. of Melbourne	
Dey, Subhrakanti	Univ. of Melbourne	
10:30-11:50		WeAIn4.13
<i>Input-To-State Stability of Self-Triggered Control Systems</i> , pp. 928-933.		
Mazo Jr., Manuel	Univ. of California at Los Angeles	
Tabuada, Paulo	Univ. of California at Los Angeles	

WeAIn5

Mandarin Hall

Decentralized Control and Large Scale Systems (Interactive Session)

10:30-11:50		WeAIn5.1
	<i>Design of Decentralized Supervisory Based Switching QFT Controller for Uncertain Multivariable Plants</i> , pp. 934-939.	
	Namaki-Shoushtari, Omid Khaki Sedigh, Ali	K.N. Toosi Univ. of Tech. Tehran, Iran K.N. Toosi Univ. of Tech.
10:30-11:50		WeAIn5.2
	<i>Multivariable Three-Term Optimal Controller Design for Large-Scale Systems</i> , pp. 940-945.	
	Davison, Edward J. Davison, Daniel E. Lam, Simon	Univ. of Toronto Univ. of Waterloo Univ. of Toronto
10:30-11:50		WeAIn5.3
	<i>Bilevel Programming for Analysis of Low-Complexity Control of Linear Systems with Constraints</i> , pp. 946-951.	
	Manum, Henrik Jones, Colin Neil Löfberg, Johan Morari, Manfred Skogestad, Sigurd	Norwegian Univ. of Sci & Tech. ETH Zurich Linköpings Univ. ETH Zurich Norwegian Univ. of Science & Tech.
10:30-11:50		WeAIn5.4
	<i>Dynamic Basis Pursuit Regularization for Complex Biochemical Pathway Identification</i> , pp. 952-957.	
	Brown, Martin He, Fei Papadopoulos, George	Univ. of Manchester Manchester Univ. of Manchester
10:30-11:50		WeAIn5.5
	<i>A New Decentralization Technique for Interconnected Systems</i> , pp. 958-965.	
	Lavaei, Javad	California Inst. of Tech.
10:30-11:50		WeAIn5.6
	<i>A Practical PID-Based Scheme for the Collaborative Driving of Automated Vehicles</i> , pp. 966-971.	
	Xavier, Packiaraj Pan, Ya-Jun	Dalhousie Univ. Dalhousie Univ.
10:30-11:50		WeAIn5.7
	<i>A Poset Framework to Model Decentralized Control Problems</i> , pp. 972-977.	
	Shah, Parikshit Parrilo, Pablo A.	Massachusetts Inst. of Tech. Massachusetts Inst. of Tech.
10:30-11:50		WeAIn5.8
	<i>On the Optimal Design of Structured Feedback Gains for Interconnected Systems</i> , pp. 978-983.	
	Fardad, Makan Lin, Fu Jovanovic, Mihailo	Syracuse Univ. Univ. of Minnesota Univ. of Minnesota
10:30-11:50		WeAIn5.9
	<i>Decentralized Formation Flocking and Stabilization for Networks of Unicycles</i> , pp. 984-989.	
	Savkin, Andrey V. Teimoori Sangani, Hamid	Univ. of New South Wales Univ. of New South Wales

WeAIn6		Mandarin Hall
Fault Diagnosis I (Interactive Session)		

10:30-11:50		WeAIn6.1
	<i>Fault Detection for Linear Discrete-Time Invariant Systems with Decoupling and Optimization</i> , pp. 990-995.	
	Li, Xiaobo Zhou, Kemin	LSU Lousiana State Univ.
10:30-11:50		WeAIn6.2
	<i>Optimal H_{∞} Fault Detection Filter Design: An Iterative LMI Approach</i> , pp. 996-1001.	
	Li, Wei Ding, Steven X. Zhu, Zhencai	China Univ. of Mining and Tech. Univ. of Duisburg-Essen China Univ. of Mining and Tech.
10:30-11:50		WeAIn6.3
	<i>Robust Fault Detection for LPV Systems Using Interval Observers and Zonotopes</i> , pp. 1002-1007.	
	Nejjari, Fatiha Puig, Vicenc Montes de Oca, Saúl Sadeghzadeh, Atefeh	Univ. Pol. de Catalunya Univ. Pol. de Catalunya Univ. Pol. de Catalunya Univ. del Pais Vasco
10:30-11:50		WeAIn6.4
	<i>An Extended Qualitative Multi-Faults Diagnosis from First Principles I: Theory and Modelling</i> , pp. 1008-1013.	
	Hu, He-xuan Gehin, Anne-Lise Bayart, Mireille	Univ. des Sci et Tech. Lille Univ. of Lille Pol.
10:30-11:50		WeAIn6.5
	<i>Least Order Fault and Model Detection Using Multi-Models</i> , pp. 1014-1019.	
	Varga, Andras	German Aerospace Center (DLR)
10:30-11:50		WeAIn6.6

<i>Suboptimal Partitioning of Time-Series Data for Anomaly Detection</i> , pp. 1020-1025.	The Pennsylvania State Univ. Pennsylvania State Univ. Pennsylvania State Univ. Pennsylvania State Univ.
Jin, Xin Sarkar, Soumik Mukherjee, Kushal Ray, Asok	
10:30-11:50	WeAIn6.7
<i>Asymptotic Behavior and Solution Approximation of Active Robust Fault Detection for Closed-Loop Systems</i> , pp. 1026-1031.	INRIA, France INRIA, Rocquencourt North Carolina State Univ.
Esna Ashari, Alireza Nikoukhah, Ramine Campbell, Stephen L	
10:30-11:50	WeAIn6.8
<i>On Optimal Fault Detection of Nonlinear Systems</i> , pp. 1032-1037.	Univ. of Duisburg-Essen Univ. of Duisburg-Essen Univ. of Duisburg-Essen, Duisburg, Germany Univ. of Duisburg-Essen
Khan, Abdul Quayyum Abid, Muhammad Chen, Wei Ding, Steven X.	
10:30-11:50	WeAIn6.9
<i>Robust Fault Detection Filter Design for a Class of Linear Systems with Mixed Time-Varying Delays and Nonlinear Perturbations</i> , pp. 1038-1043.	Univ. of Agder Univ. of Girona Univ. of Girona
Karimi, Hamid Reza Zapateiro, Mauricio Luo, Ningsu	
10:30-11:50	WeAIn6.10
<i>Adaptive Observer-Based Fault Diagnosis for a Class of MIMO Nonlinear Uncertain Systems</i> , pp. 1044-1049.	Northeastern Univ. Northeastern Univ. Case Western Res. Univ.
Ma, Hong-jun Yang, Guang-hong Lin, Wei	

WeB01 3D

Nonlinear Control (SIAM Session)	
Chair: Cao, Ming Co-Chair: Andrieu, Vincent	Univ. of Groningen Univ. de Toulouse
14:10-14:30	WeB01.1
<i>Homogeneity in the Bi-Limit As a Tool for Observer and Feedback Design</i> , pp. 1050-1055.	Univ. de Toulouse Mines Paris-Tech. Imperial Coll. & Univ. of Rome
Andrieu, Vincent Praly, Laurent Astolfi, Alessandro	
14:30-14:50	WeB01.2
<i>Controllability for Systems with Almost Periodic Excitations</i> , pp. 1056-1061.	Univ. Augsburg Univ. of Augsburg
Wichtrey, Tobias Colonius, Fritz	
14:50-15:10	WeB01.3
<i>Minimization of Length and Curvature on Planar Curves</i> , pp. 1062-1067.	CNRS Inst. Fourier, UMR 5582 SISSA
Boscain, Ugo V. Charlot, Gregoire Rossi, Francesco	
15:10-15:30	WeB01.4
<i>Partial Stability for a Class of Nonlinear Systems</i> , pp. 1068-1073.	Univ. de São Paulo Imperial Coll. & Univ. of Rome
Costa, Eduardo F. Astolfi, Alessandro	
15:30-15:50	WeB01.5
<i>Merging Globally Rigid Graphs and Sensor Network Localization</i> , pp. 1074-1079.	Yale Univ. Yale Univ.
Fang, Jia Morse, A. Stephen	
15:50-16:10	WeB01.6
<i>A Geometric Optimization Approach to Tracking Maneuvering Targets Using a Heterogeneous Mobile Sensor Network</i> , pp. 1080-1087.	Duke Univ. Univ. of New Mexico Univ. of New Mexico
Ferrari, Silvia Fierro, Rafael Tolic, Domagoj	

WeB02 3E

Stabilization of Hybrid Systems (Regular Session)	
Chair: Abate, Alessandro Co-Chair: Sanfelice, Ricardo G.	Stanford Univ. Univ. of Arizona
14:10-14:30	WeB02.1
<i>On Piecewise Quadratic Control-Lyapunov Functions for Switched Linear Systems</i> , pp. 1088-1093.	Purdue Univ. Stanford Univ. Stanford Univ.
Zhang, Wei Abate, Alessandro Vitus, Michael P.	

Hu, Jianghai	Purdue Univ.
14:30-14:50	WeB02.2
<i>Robust Global Asymptotic Stabilization of a 6-DOF Rigid Body by Quaternion-Based Hybrid Feedback</i> , pp. 1094-1099.	
Mayhew, Christopher G.	Univ. of California, Santa Barbara
Sanfelice, Ricardo G.	Univ. of Arizona
Teel, Andrew R.	Univ. of California at Santa Barbara
14:50-15:10	WeB02.3
<i>On the Stabilization of Permanently Excited Linear Systems</i> , pp. 1100-1105.	
Chitour, Yacine	Univ. Paris-Sud, CNRS, Supelec
Sigalotti, Mario	INRIA Nancy - Grand Est
15:10-15:30	WeB02.4
<i>A Computational Stability Analysis of Discrete-Time Piecewise Linear Systems</i> , pp. 1106-1111.	
Arivukkodi Krishnamurthy, Satyajit	The Pennsylvania State Univ.
Lee, Ji-Woong	Pennsylvania State Univ.
15:30-15:50	WeB02.5
<i>Modal and Transition Dwell Time Computation in Switching Systems: A Set-Theoretic Approach</i> , pp. 1112-1117.	
Blanchini, Franco	Univ. degli Studi di Udine
Miani, Stefano	Univ. degli Studi di Udine
Casagrande, Daniele	Univ. of Udine
15:50-16:10	WeB02.6
<i>On Feedback Stabilisation of Switched Discrete-Time Systems Via Lie-Algebraic Techniques</i> , pp. 1118-1123.	
Haimovich, Hernan	Univ. Nacional de Rosario, Argentina
Braslavsky, Julio H.	The Univ. of Newcastle
Felicioni, Flavia Eleonora	Facultad de Cs. Exactas, Ingenieria y Agrimensura, Univ. Na

WeB03 3C

Robust Control II (Regular Session)

Chair: Duan, Guang-Ren	Harbin Inst. of Tech.
Co-Chair: Guan, Zhi-Hong	Huazhong Univ. of Science & Tech.
14:10-14:30	WeB03.1
<i>IQC Robustness Analysis for Feedback Interconnections of Unstable Distributed Parameter Systems</i> , pp. 1124-1130.	
Cantoni, Michael	Univ. of Melbourne
Jonsson, Ulf T.	Royal Inst. of Tech. (KTH)
Kao, Chung-Yao	National Sun Yat-Sen Univ.
14:30-14:50	WeB03.2
<i>Optimality of Affine Policies in Multi-Stage Robust Optimization</i> , pp. 1131-1138.	
Bertsimas, Dimitris	Massachusetts Inst. of Tech.
Iancu, Dan Andrei	Massachusetts Inst. of Tech.
Parrilo, Pablo A.	Massachusetts Inst. of Tech.
14:50-15:10	WeB03.3
<i>Parameter-Dependent Lyapunov Function Approach to Robust Stability Analysis for Discrete-Time Descriptor Polytopic Systems</i> , pp. 1139-1144.	
Gao, Xiangyu	Harbin Inst. of Tech.
Duan, Guang-Ren	Harbin Inst. of Tech.
Zhang, Xian	Heilongjiang Univ.
15:10-15:30	WeB03.4
<i>Restricted Real Perturbation Values with Applications to the Structured Real Controllability Radius of LTI Systems</i> , pp. 1145-1150.	
Lam, Simon	Univ. of Toronto
Davison, Edward J.	Univ. of Toronto
15:30-15:50	WeB03.5
<i>Distributional Robustness Analysis for Polynomial Uncertainty</i> , pp. 1151-1156.	
Feng, Chao	Pennsylvania State Univ.
Lagoa, Constantino M.	Pennsylvania State Univ.
15:50-16:10	WeB03.6
<i>LQR Parametrization of Static Output Feedback Gains for Linear Systems with Markovian Switching and Related Robust Stabilization and Passification Problems</i> , pp. 1157-1162.	
Pakshin, Pavel	Nizhny Novgorod State Tech. Univ.
Peaucelle, Dimitri	LAAS-CNRS, Univ. de Toulouse

WeB04 3A

Numerical Methods II (Regular Session)

Chair: Fujisaki, Yasumasa	Kobe Univ.
Co-Chair: Topcu, Ufuk	California Inst. of Tech.
14:10-14:30	WeB04.1
<i>Nonlinear Receding Horizon Control Via Singular Value Decomposition with Error Correction Method for Singular Vectors and Singular Values</i> , pp. 1163-1168.	
Matoba, Shunsuke	Nara Inst. of Science and Tech.
Nakamura, Hisakazu	Nara Inst. of Science & Tech.
Nishitani, Hirokazu	Nara Inst. of Sci. & Tech.

14:30-14:50		WeB04.2
	<i>Probabilistic Cutting Plane Technique Based on Maximum Volume Ellipsoid Center</i> , pp. 1169-1174.	
	Wada, Takayuki Fujisaki, Yasumasa	Kobe Univ. Kobe Univ.
14:50-15:10		WeB04.3
	<i>Compositional Stability Analysis Based on Dual Decomposition</i> , pp. 1175-1180.	
	Topcu, Ufuk Packard, Andrew K. Murray, Richard M.	California Inst. of Tech. Univ. of California at Berkeley California Inst. of Tech.
15:10-15:30		WeB04.4
	<i>LMS-2: Towards an Algorithm That Is As Cheap As LMS and Almost As Efficient As RLS</i> , pp. 1181-1188.	
	Yao, Hengshuai Bhatnagar, Shalabh Szepesvári, Csaba	Athabasca Hall, Univ. of Alberta Indian Inst. of Science Univ. of Alberta
15:30-15:50		WeB04.5
	<i>A Fast Geometric Algorithm for Finding the Minimum Distance between Two Convex Hulls</i> , pp. 1189-1194.	
	Liu, Jianguo Kaown, Dougsoo	Univ. of North Texas Univ. of North Texas
15:50-16:10		WeB04.6
	<i>A Positive Definite Polynomial Hessian That Does Not Factor</i> , pp. 1195-1200.	
	Ahmadi, Amir Ali Parrilo, Pablo A.	MIT Massachusetts Inst. of Tech.

WeB05		3J
Optimal Control I (SIAM Session)		
	Chair: Schattler, Heinz M. Co-Chair: Bayen, T�rence	Washington Univ. Univ. de Montpellier
14:10-14:30		WeB05.1
	<i>Optimal Controlled Trajectories for a Mathematical Model of Anti-Angiogenic Therapy in Cancer</i> , pp. 1201-1206.	
	Ledzewicz, Urszula Schattler, Heinz M.	Southern Illinois Univ. at Edwardsville Washington Univ.
14:30-14:50		WeB05.2
	<i>Duality in Linear Programming Problems Related to Deterministic Long Run Average Problems of Optimal Control with Applications to Periodic Optimization</i> , pp. 1207-1211.	
	Finlay, Luke Gaitsgory, Vladimir Lebedev, Ivan	DSTO Univ. of South Australia WorkCover Corp. of SA
14:50-15:10		WeB05.3
	<i>Existence Results for Optimal Control Problems with Some Special Non-Linear Dependence on State and Control</i> , pp. 1212-1217.	
	Tiago, Jorge Pedregal, Pablo	Univ. of Castilla La Mancha/ Lisbon Univ. Univ. de Castilla - La Mancha
15:10-15:30		WeB05.4
	<i>Dirichlet Problems for Some Hamilton-Jacobi Equations with Inequality Constraints</i> , pp. 1218-1222.	
	Aubin, Jean-pierre Bayen, Alexandre M. Saint-Pierre, Patrick	Univ. Paris Ix - Dauphine Univ. of California at Berkeley Univ. Paris Dauphine
15:30-15:50		WeB05.5
	<i>Parametrization of a Convex Optimization Problem by Optimal Control Theory and Proof of a Goldberg Conjecture</i> , pp. 1223-1228.	
	Bayen, T�rence	Univ. de Montpellier
15:50-16:10		WeB05.6
	<i>Nonsymmetric Algebraic Riccati Theory: A Matrix Pencil Approach</i> , pp. 1229-1234.	
	Jungers, Marc Oara, Cristian	CNRS - Nancy Univ. ENSEM Univ. Pol. Bucharest

WeB06		3G
Diagnosis and Prognosis of Discrete-Event Systems (Invited Session)		
	Chair: Rakoto-Ravalontsalama, Naly Co-Chair: Takai, Shigemasa Organizer: Takai, Shigemasa Organizer: Rakoto-Ravalontsalama, Naly	Ec. des Mines de Nantes Osaka Univ. Osaka Univ. Ec. des Mines de Nantes
14:10-14:30		WeB06.1
	<i>Distributed Prognosis of Discrete Event Systems under Bounded-Delay Communications (I)</i> , pp. 1235-1240.	
	Takai, Shigemasa Kumar, Ratnesh	Osaka Univ. Iowa State Univ.
14:30-14:50		WeB06.2
	<i>Hardware Realization of Discrete Event System Diagnosers (I)</i> , pp. 1241-1247.	
	Huang, Samuel Tien-Chieh Kwong, Raymond H. Davison, Edward J.	Univ. of Toronto Univ. of Toronto Univ. of Toronto

14:50-15:10		WeB06.3
<i>Qualitative Diagnosability of Labeled Petri Nets Revisited (I)</i> , pp. 1248-1253.		
Haar, Stefan		INRIA
15:10-15:30		WeB06.4
<i>Diagnosability of Bounded Petri Nets (I)</i> , pp. 1254-1260.		
Cabasino, Maria Paola		Univ. of Cagliari
Giua, Alessandro		Univ. di Cagliari
Seatzu, Carla		Univ. of Cagliari
15:30-15:50		WeB06.5
<i>Reachability Analysis for a Class of Petri Nets (I)</i> , pp. 1261-1266.		
Ru, Yu	Univ. of Illinois, Urbana-Champaign	
Hadjicostis, Christoforos	Univ. of Cyprus	
15:50-16:10		WeB06.6
<i>Diagnosability Analysis of Unbounded Petri Nets</i> , pp. 1267-1272.		
Cabasino, Maria Paola		Univ. of Cagliari
Giua, Alessandro		Univ. di Cagliari
Lafortune, Stephane		Univ. of Michigan
Seatzu, Carla		Univ. of Cagliari
WeB07		5C
Filtering II (Regular Session)		
Chair: Terra, Marco Henrique	Univ. of São Paulo at São Carlos	
Co-Chair: Yamakita, Masaki	Tokyo Inst. of Tech.	
14:10-14:30		WeB07.1
<i>A Structure Exploiting Interior-Point Method for Moving Horizon Estimation</i> , pp. 1273-1278.		
Haverbeke, Niels	Katholieke Univ. Leuven	
Diehl, Moritz	Katholieke Univ. Leuven	
De Moor, Bart L.R.	Katholieke Univ. Leuven	
14:30-14:50		WeB07.2
<i>Constrained State Estimation for Nonlinear Systems with Non-Gaussian Noise</i> , pp. 1279-1284.		
Ishihara, Shinji	Tokyo Inst. of Tech.	
Yamakita, Masaki	Tokyo Inst. of Tech.	
14:50-15:10		WeB07.3
<i>The Entropy Penalized Minimum Energy Estimator</i> , pp. 1285-1290.		
Pequito, Sergio Daniel	Tech. Univ. of Lisbon	
Aguiar, A. Pedro	Tech. Univ. of Lisbon	
Gomes, Diogo	Inst. Superior Tecnico	
15:10-15:30		WeB07.4
<i>H_∞ Filter Design for Discrete-Time Linear Systems with Sector-Bounded Nonlinearities: An LMI Approach</i> , pp. 1291-1296.		
Shen, Mouquan	Northeastern Univ.	
Wang, Mingshun	northeastern Univ.	
Yang, Guang-hong	Northeastern Univ.	
15:30-15:50		WeB07.5
<i>Invariant Extended Kalman Filter: Theory and Application to a Velocity-Aided Attitude Estimation Problem</i> , pp. 1297-1304.		
Bonnabel, Silvere	Mines ParisTech	
Martin, Philippe	MINES ParisTech	
Salaün, Erwan	Georgia Inst. of Tech.	
15:50-16:10		WeB07.6
<i>Robust Estimate for Discrete-Time Markovian Jump Linear Systems</i> , pp. 1305-1309.		
Terra, Marco Henrique	Univ. of São Paulo at São Carlos	
Ishihara, João Yoshiyuki	Univ. of Brasília	
Jesus, Gildson	Univ. of São Paulo	
WeB08		3I
Delay Systems II (Regular Session)		
Chair: Kojima, Akira	Tokyo Metropolitan Univ.	
Co-Chair: Fridman, Emilia	Tel-Aviv Univ.	
14:10-14:30		WeB08.1
<i>Construction of Lyapunov-Krasovskii Functionals for Interconnection of Retarded Dynamic and Static Systems Via a Small-Gain Condition</i> , pp. 1310-1316.		
Ito, Hiroshi	Kyushu Inst. of Tech.	
Pepe, Pierdomenico	Univ. of L' Aquila	
Jiang, Zhong-Ping	Pol. Inst. NYU	
14:30-14:50		WeB08.2
<i>Stability Analysis of State-Delay Systems Based on the Characterization of State-Transition Operator</i> , pp. 1317-1323.		
Kojima, Akira	Tokyo Metropolitan Univ.	
Tsuchiya, Taro	Tokyo Metropolitan Univ.	
14:50-15:10		WeB08.3
<i>Model Predictive Control of Constrained Nonlinear Time-Delay Systems</i> , pp. 1324-1329.		

Mahboobi Esfanjani, Reza	Amirkabir Univ. of Tech.
Reble, Marcus	Univ. of Stuttgart
Muenz, Ulrich	Univ. of Stuttgart
Nikraves, Kamaledin	Amirkabir Univ. of Tech.
Allgower, Frank	Univ. of Stuttgart
15:10-15:30	WeB08.4
<i>Stability Analysis of Networked Control Systems: A Discontinuous Lyapunov Functional Approach</i> , pp. 1330-1335.	
Liu, Kun	Tel Aviv Univ.
Fridman, Emilia	Tel-Aviv Univ.
15:30-15:50	WeB08.5
<i>Lyapunov Stability of Linear Predictor Feedback for Time-Varying Input Delay</i> , pp. 1336-1341.	
Krstic, Miroslav	Univ. of California at San Diego
15:50-16:10	WeB08.6
<i>New Stability Criterion for Discrete-Time Systems with Interval Time-Varying State Delay</i> , pp. 1342-1347.	
Guo, Yafeng	Shanghai Jiao Tong Univ.
Li, Shaoyuan	Shanghai Jiao Tong Univ.

WeB09 3H

Control of Fusion Plasmas in Tokamaks II (Invited Session)

Chair: Schuster, Eugenio	Lehigh Univ.
Co-Chair: Moreau, Didier	CEA
Organizer: Schuster, Eugenio	Lehigh Univ.
Organizer: Mazon, Didier	CEA Cadarache
14:10-14:30	WeB09.1
<i>Vector Dither Experiment Design and Direct Parametric Identification of Reversed-Field Pinch Normal Modes (I)</i> , pp. 1348-1353.	
Olofsson, Erik	Royal Inst. of Tech.
Hjalmarsson, Håkan	Royal Inst. of Tech.
Rojas, Cristian R.	ACCESS Linnaeus Center, KTH
Brunsell, Per	Royal Inst. of Tech.
Drake, James	Royal Inst. of Tech.
14:30-14:50	WeB09.2
<i>Design and Modeling of ITER Plasma Magnetic Control System in Plasma Current Ramp-Up Phase on DINA Code (I)</i> , pp. 1354-1359.	
Mitshkin, Yuri	Bauman Moscow State Tech. Univ.
Korostelev, Alexander	Bauman Moscow State Tech. Univ.
Dokuka, Vladimir	Troitsk Inst. for Innovation & Fusion Res.
Khayrutdinov, Rustam	Troitsk Inst. for Innovation & Fusion Res.
14:50-15:10	WeB09.3
<i>Control Oriented Modeling and Simulation of the Sawtooth Instability in Nuclear Fusion Tokamak Plasmas (I)</i> , pp. 1360-1366.	
Witvoet, Gert	Eindhoven Univ. of Tech.
Westerhof, Egbert	FOM
Steinbuch, Maarten	Eindhoven Univ. of Tech.
Doelman, Niek	TNO Science and Industry
De Baar, Marco	FOM
15:10-15:30	WeB09.4
<i>Control of Ramp-Up Current Profile Dynamics in Tokamak Plasmas Via the Minimal-Surface Theory (I)</i> , pp. 1367-1372.	
Xu, Chao	Lehigh Univ.
Schuster, Eugenio	Lehigh Univ.
15:30-15:50	WeB09.5
<i>A Command Governor Approach to Plasma Shape Control (I)</i> , pp. 1373-1378.	
Mattei, Massimiliano	Seconda Univ. di Napoli
Famularo, Domenico	Univ. degli Studi Mediterranea di Reggio Calabria
Labate, Carmelo Vincenzo	Univ. di Reggio Calabria
15:50-16:10	WeB09.6
<i>Identification of the Magneto-Thermal Plasma Response for Plasma State Control in Advanced Tokamaks (I)</i> , pp. 1379-1386.	
Moreau, Didier	CEA
Mazon, Didier	CEA Cadarache
Adachi, Yuuki	The Univ. of Tokyo
Takase, Yuichi	The Univ. of Tokyo
Sakamoto, Yoshiteru	JAEA
Ide, Shunsuke	JAEA
Suzuki, Takihiro	JAEA

WeB10 5D

Robust and Adaptive Control (Regular Session)

Chair: Netic, Dragan	Univ. of Melbourne
Co-Chair: Bian, Wenming	Univ. of Southampton
14:10-14:30	WeB10.1
<i>Nonlinear Adaptive Control Method Based on ANFIS and Multiple Models</i> , pp. 1387-1392.	
Zhang, Yajun	Northeastern Univ.
Chai, Tianyou	Northeastern Univ.

Fu, Yue	Northeastern Univ.
Niu, Hong	Northeastern Univ.
14:30-14:50	WeB10.2
<i>A Biased Approach to Nonlinear Robust Stability with Applications in Adaptive Control</i> , pp. 1393-1398.	
French, Mark	Univ. of Southampton
Bian, Wenming	Univ. of Southampton
14:50-15:10	WeB10.3
<i>Input-To-State Stability Analysis Via Averaging for Parameterized Discrete-Time Systems</i> , pp. 1399-1404.	
Wang, Wei	The Univ. of Melbourne
Nesic, Dragan	Univ. of Melbourne
15:10-15:30	WeB10.4
<i>Nonlinear Adaptive Control Design for Non-Minimum Phase Hypersonic Vehicle Models with Minimal Control Authority</i> , pp. 1405-1410.	
Fiorentini, Lisa	The Ohio State Univ.
Serrani, Andrea	The Ohio State Univ.
15:30-15:50	WeB10.5
<i>Input-To-State Dynamical Stability of Interconnected Systems</i> , pp. 1411-1416.	
Dashkovskiy, Sergey	Univ. of Bremen
Naujok, Lars	Univ. of Bremen
15:50-16:10	WeB10.6
<i>Stabilization of a Class of Sandwich Nonlinear Systems Via State Feedback</i> , pp. 1417-1421.	
Wang, Xu	Washington State Univ.
Stoorvogel, Anton A.	Univ. of Twente
Saberi, Ali	Washington State Univ.
Grip, Håvard Fjór	NTNU
Roy, Sandip	Washington State Univ.
Sannuti, Peddapullaiah	Rutgers Univ.

WeB11	5J
Quantum Systems II: Real-Time Feedback Control (Invited Session)	
Chair: James, Matthew R.	Australian National Univ.
Co-Chair: Mirrahimi, Mazyar	INRIA Rocquencourt
Organizer: James, Matthew R.	Australian National Univ.
Organizer: Mirrahimi, Mazyar	INRIA Rocquencourt
14:10-14:30	WeB11.1
<i>On the Physical Realizability of General Linear Quantum Stochastic Differential Equations with Complex Coefficients (I)</i> , pp. 1422-1427.	
A. J., Shaiju	INDIAN Inst. OF Tech. MADRAS
Petersen, Ian R.	UNSW at Australian Def. Force Acad.
14:30-14:50	WeB11.2
<i>Quantum Feedback Control for the Deterministic Generation of Schrodinger-Cat States (I)</i> , pp. 1428-1432.	
Yanagisawa, Masahiro	The Australian National Univ.
14:50-15:10	WeB11.3
<i>Exact Solution for the Max-Min Quantum Error Recovery Problem (I)</i> , pp. 1433-1438.	
Yamamoto, Naoki	Keio Univ.
15:10-15:30	WeB11.4
<i>A Network Synthesis Theorem for Linear Dynamical Quantum Stochastic Systems (I)</i> , pp. 1439-1444.	
Nurdin, Hendra Ishwara	Australian National Univ.
James, Matthew R.	Australian National Univ.
Doherty, Andrew	The Univ. of Queensland
15:30-15:50	WeB11.5
<i>Feedback Schemes for Radiation Damping Suppression in NMR: A Control-Theoretical Perspective (I)</i> , pp. 1445-1450.	
Altafini, Claudio	SISSA
Cappellaro, Paola	Harvard Univ.
Cory, David G.	MIT
15:50-16:10	WeB11.6
<i>Feedback Generation of Quantum Fock States by Discrete QND Measures (I)</i> , pp. 1451-1456.	
Mirrahimi, Mazyar	INRIA Paris-Rocquencourt
Dotsenko, Igor	Ec. Normale Superieure
Rouchon, Pierre	Mines ParisTech

WeB12	5E
Aerospace I (Regular Session)	
Chair: Tayebi, Abdelhamid	Lakehead Univ.
Co-Chair: Chen, Zeng-Qiang	Nankai Univ.
14:10-14:30	WeB12.1
<i>Continuous Low-Thrust Time-Optimal Orbital Maneuver</i> , pp. 1457-1462.	
Yue, XinCheng	Peking Univ.
Yang, Ying	Peking Univ.
Geng, Zhiyong	Peking Univ.
14:30-14:50	WeB12.2

<i>On the Attitude Recovery of an Underactuated Spacecraft Using Two Control Moment Gyroscopes</i> , pp. 1463-1470.	Mehrabian, Ali Reza Tafazoli, Siamak Khorasani, Khashayar	Concordia Univ. Canadian Space Agency Concordia Univ.
14:50-15:10		WeB12.3
<i>A Novel Algorithm for SINS/CNS/GPS Integrated Navigation System</i> , pp. 1471-1475.	Hu, Haidong Huang, Xianlin Song, Zhuoyue	Univ. of Harbin Inst. of Tech. Univ. of Harbin Inst. Univ. of Manchester
15:10-15:30		WeB12.4
<i>On the Coordinated Attitude Alignment of a Group of Spacecraft without Velocity Measurements</i> , pp. 1476-1481.	Abdessameud, Abdelkader Tayebi, Abdelhamid	Univ. of Western Ontario Lakehead Univ.
15:30-15:50		WeB12.5
<i>A Practical Solution to Some Problems in Flight Control</i> , pp. 1482-1487.	Sun, Mingwei Chen, Zeng-Qiang Yuan, Zhuzhi	Nankai Univ. Nankai Univ. Nankai Univ.
15:50-16:10		WeB12.6
<i>Consistent Estimation of Pulse Delay for X-Ray Pulsar Based Relative Navigation</i> , pp. 1488-1493.	Emadzadeh, Amir A. Golshan, A. Robert Speyer, Jason L.	Univ. of California, Los angeles JHU Univ. of California at Los Angeles

WeB13 5A

Statistical Learning (Regular Session)

Chair: Jia, Yingmin Co-Chair: Meyn, Sean		Beihang Univ. Univ. of Illinois
14:10-14:30		WeB13.1
<i>A Sensor-Utility-Network Method for Estimation of Occupancy Distribution in Buildings</i> , pp. 1494-1500.	Meyn, Sean Surana, Amit Lin, Yiqing Oggianu, Stella Maris Narayanan, Satish Frewen, Thomas	Univ. of Illinois United Tech. Res. Center United Tech. Res. Center United Tech. Res. Center United Tech. Res. Center United Tech. Res. Center
14:30-14:50		WeB13.2
<i>Mixed Linear System Estimation and Identification</i> , pp. 1501-1506.	Zymnis, Argyrios Boyd, Stephen P. Gorinevsky, Dimitry	Stanford Univ. Stanford Univ. Stanford Univ.
14:50-15:10		WeB13.3
<i>Improved Independent Component Regression Modeling</i> , pp. 1507-1512.	Zhao, Chunhui Gao, Furong Liu, Tao Wang, Fuli	The Hong Kong Univ. of Science and Tech. Hong Kong Univ. of Science & Tech. Hong Kong Univ. of Science & Tech. Northeastern Univ.
15:10-15:30		WeB13.4
<i>Learning under Social Influence</i> , pp. 1513-1519.	Tahbaz-Salehi, Alireza Sandroni, Alvaro Jadbabaie, Ali	Univ. of Pennsylvania Univ. of Pennsylvania Univ. of Pennsylvania
15:30-15:50		WeB13.5
<i>Gene Selection of Multiple Cancer Types Via Huberized Multi-Class Support Vector Machine</i> , pp. 1520-1525.	Li, Juntao Jia, Yingmin Du, Junping Yu, Fashan	Beihang Univ. Beihang Univ. Beijing Univ. of Posts and Telecommunications Henan Pol. Univ.
15:50-16:10		WeB13.6
<i>Could Feedback-Based Self-Learning Help Solve Networked Prisoner's Dilemma?</i> , pp. 1526-1531.	Chen, Xiaojie Fu, Feng Wang, Long	Peking Univ. Harvard Univ. Peking Univ.

WeB14 5B

Identification Accuracy with Applications (Regular Session)

Chair: Weyer, Erik Co-Chair: Manchester, Ian		Univ. of Melbourne Umea Univ.
14:10-14:30		WeB14.1

<i>Finite Sample Properties of System Identification with Quantized Output Data</i> , pp. 1532-1537.	Univ. of Melbourne Korea Aerospace Univ. Univ. di Brescia
Weyer, Erik Ko, Sangho Campi, M. C.	
14:30-14:50	WeB14.2
<i>Preliminary Results on Relative Performance of Expected and Observed Fisher Information</i> , pp. 1538-1543.	Johns Hopkins Univ. Johns Hopkins Univ.
Cao, Xumeng Spall, James C.	
14:50-15:10	WeB14.3
<i>Parametrization Invariant Covariance Quantification in Identification of Transfer Functions for Linear Systems</i> , pp. 1544-1550.	Univ. Catholique de Louvain Univ. Catholique de Louvain
Ivanov, Tzvetan Gevers, Michel	
15:10-15:30	WeB14.4
<i>An Algorithm for Amplitude-Constrained Input Design for System Identification</i> , pp. 1551-1556.	Massachusetts Inst. of Tech.
Manchester, Ian	
15:30-15:50	WeB14.5
<i>Input Design Using Markov Chains for System Identification</i> , pp. 1557-1562.	Univ. of Padova Royal Inst. of Tech. ACCESS Linnaeus Center, KTH
Brighenti, Chiara Wahlberg, Bo Rojas, Cristian R.	
15:50-16:10	WeB14.6
<i>An Algorithm for Time-Varying Commodity Price Models</i> , pp. 1563-1568.	The Univ. of Newcastle Univ. of Newcastle Univ. of Newcastle Univ. of Newcastle
Godoy, Boris I. Goodwin, Graham C. Agüero, Juan C. Rojas, Alejandro J.	

WeB15 3B

Stochastic Control II (Regular Session)	
Chair: McEneaney, William Co-Chair: Lin, Zhongwei	Univ. of California, San Diego Beijing Univ. of Aeronautics and Astronautics
14:10-14:30	WeB15.1
<i>Idempotent Algorithms for Discrete-Time Stochastic Control through Distributed Dynamic Programming</i> , pp. 1569-1574.	Univ. of California, San Diego
McEneaney, William	
14:30-14:50	WeB15.2
<i>Passivity and Feedback Design of Nonlinear Stochastic Systems</i> , pp. 1575-1580.	Beijing Univ. of Aeronautics and Astronautics Beijing Univ. of Aeronautics and Astronautics
Lin, Zhongwei Yan, Lin	
14:50-15:10	WeB15.3
<i>Stochastic Averaging on Infinite Time Interval for a Class of Nonlinear Systems with Stochastic Perturbation</i> , pp. 1581-1586.	Southeast Univ. Univ. of California at San Diego
Liu, Shu-Jun Krstic, Miroslav	
15:10-15:30	WeB15.4
<i>Stochastic Optimal Control Subject to Variational Norm Uncertainty: Viscosity Subolutions for Generalized HJB Inequality</i> , pp. 1587-1592.	Univ. of Ottawa Univ. of Cyprus Univ. of Ottawa
Rezaei, Farzad Charalambous, Charalambos D. Ahmed, Nasir Uddin	
15:30-15:50	WeB15.5
<i>Stochastic Control of Continuous-Time and Continuous-State Systems Via Direct Comparison</i> , pp. 1593-1598.	Hong Kong Univ. of Sci. & Tech.
Cao, Xi-Ren	
15:50-16:10	WeB15.6
<i>An Elementary Derivation of the Large Deviation Rate Function for Finite State Markov Chains</i> , pp. 1599-1606.	The Univ. of Texas at Dallas
Vidyasagar, Mathukumalli	

WeB16 5F

Decentralized Control (Regular Session)	
Chair: Stoorvogel, Anton A. Co-Chair: Martins, Nuno C.	Univ. of Twente Univ. of Maryland
14:10-14:30	WeB16.1
<i>On the Closest Quadratically Invariant Constraint</i> , pp. 1607-1612.	The Univ. of Melbourne Univ. of Maryland
Rotkowitz, Michael C. Martins, Nuno C.	
14:30-14:50	WeB16.2
<i>A Multiple-Derivative and Multiple-Delay Paradigm for Decentralized Controller Design: Uniform-Rank Systems</i> , pp. 1613-1620.	Washington State Univ. Washington State Univ. Washington State Univ. Univ. of Twente
Wan, Yan Roy, Sandip Saber, Ali Stoorvogel, Anton A.	

14:50-15:10		WeB16.3
<i>Reduction of Decentralized Control Problems to Tractable Representations</i> , pp. 1621-1626.		
Lessard, Laurent		Stanford Univ.
Lall, Sanjay		Stanford Univ.
15:10-15:30		WeB16.4
<i>Time Varying Controllers in Discrete-Time Decentralized Control</i> , pp. 1627-1631.		
Deliu, Ciprian		Eindhoven Univ. of Tech.
Stoorvogel, Anton A.		Univ. of Twente
Saberi, Ali		Washington State Univ.
Roy, Sandip		Washington State Univ.
Malek, Babak		Washington State Univ.
15:30-15:50		WeB16.5
<i>On the Use of the Generalized Structured Singular Value for Decentralized Control Problems</i> , pp. 1632-1637.		
Tanaka, Takashi		Univ. of Illinois, Urbana-Champaign
Langbort, Cedric		Univ. of Illinois, Urbana-Champaign
15:50-16:10		WeB16.6
<i>Nonlinear Robust H^∞ Control Via a Stable Decentralized Nonlinear Output Feedback Controller</i> , pp. 1638-1644.		
Harno, Hendra G.		Univ. of New South Wales @ ADFA
Petersen, Ian R.		UNSW at Australian Def. Force Acad.

WeB17		5H
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Networks II (Regular Session)		
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Chair: Qu, Zhihua		Univ. of Central Florida
Co-Chair: Sinopoli, Bruno		Carnegie Mellon Univ.
14:10-14:30		WeB17.1
<i>Optimal Sampling for State Change Detection with Application to the Control of Sleep Mode</i> , pp. 1645-1650.		
Azad, Amar Prakash		INRIA, Sophia Antipolis
Alouf, Sara		INRIA Sophia Antipolis
Altman, Eitan		INRIA
Borkar, Vivek S.		Tata Inst. of Fundamental Res.
Paschos, George		Univ. uth, greece
14:30-14:50		WeB17.2
<i>Inverse Optimality of Cooperative Control for Networked Systems</i> , pp. 1651-1658.		
Qu, Zhihua		Univ. of Central Florida
Simaan, Marwan A.		Univ. of Central Florida
14:50-15:10		WeB17.3
<i>Sensor Selection for Hypothesis Testing in Wireless Sensor Networks: A Kullback-Leibler Based Approach</i> , pp. 1659-1664.		
Bajovic, Dragana		Carnegie Mellon Univ.
Sinopoli, Bruno		Carnegie Mellon Univ.
Xavier, Joao		Inst. Sistemas e Robotica - Inst. Superior Tecnico
15:10-15:30		WeB17.4
<i>Discrete Invasive Weed Optimization Algorithm: Application to Cooperative Multiple Task Assignment of UAVs</i> , pp. 1665-1670.		
Ramezani Ghalenoei, Mohsen		Univ. of Tehran
Hajimirsadeghi, Hossein		Univ. of Tehran
Lucas, Caro		Prof.
15:30-15:50		WeB17.5
<i>Computation of Safety Control for Uncertain Piecewise Continuous Systems on a Partial Order</i> , pp. 1671-1677.		
Hafner, Michael R.		Univ. of Michigan
Del Vecchio, Domitilla		Univ. of Michigan
15:50-16:10		WeB17.6
<i>Distributed Non-Smooth Resource Allocation Over a Network</i> , pp. 1678-1683.		
Johansson, Bjorn		Royal Inst. of Tech.
Johansson, Mikael		Royal Inst. of Tech.

WeB18		5I
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Network Synchronization (Regular Session)		
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Chair: Sarlette, Alain		Univ. of Liege (Belgium)
Co-Chair: Wang, Yan-Wu		Huazhong Univ. of Science and Tech.
14:10-14:30		WeB18.1
<i>Synchronization of Dynamical Networks by Network Control</i> , pp. 1684-1689.		
Liu, Tao		The Australian National Univ.
Hill, David J.		The Australian National Univ.
Zhao, Jun		The Australian National Univ.
14:30-14:50		WeB18.2
<i>Moment-Based Analysis of Synchronization in Small-World Networks of Oscillators</i> , pp. 1690-1695.		
Preciado, Victor M.		Univ. of Pennsylvania
Jadbabaie, Ali		Univ. of Pennsylvania
14:50-15:10		WeB18.3
<i>Synchronization with Partial State Feedback on $SO(n)$</i> , pp. 1696-1701.		

Lageman, Christian Sarlette, Alain Sepulchre, Rodolphe J.	Univ. of Liege Univ. of Liege (Belgium) Univ. de Liege
15:10-15:30 <i>Global Synchronization of Networked Systems with Bidirectional Connections</i> , pp. 1702-1707.	WeB18.4
Xiang, Ji Wei, Wei Li, Yanjun	Zhejiang Univ. Yuquan Campus Zhejiang Univ. School of Information and Electrical Engineering, Zhejiang Univ.
15:30-15:50 <i>Robust Synchronization of Weighted Complex Dynamical Networks</i> , pp. 1708-1713.	WeB18.5
Zhao, Junchan Li, Qin Lu, Junan Jiang, Zhong-Ping	Wuhan Univ. Pol. Inst. of New York Univ. Wuhan Univ. China Pol. Inst. NYU
15:50-16:10 <i>Synchronization of Complex Dynamical Networks Via Distributed Impulsive Control</i> , pp. 1714-1719.	WeB18.6
Liu, Zhi-Wei Guan, Zhi-Hong Wang, Yan-Wu Liao, Rui-Quan	Huazhong Univ. of Science and Tech. Huazhong Univ. of Science & Tech. Huazhong Univ. of Science and Tech. Yangtze Univ.
WeBTu	Yellow River
Modeling of Interconnected Systems (Tutorial Session)	
Chair: Yamamoto, Yutaka Co-Chair: van der Schaft, Arjan J.	Kyoto Univ. Univ. of Groningen
14:10-14:50 <i>Modeling by Tearing, Zooming and Linking (I)*</i> . Trentelman, Harry L.	WeBTu.1 Univ. of Groningen
14:50-15:30 <i>Multi-Physics Systems and Port-Hamiltonian Theory (I)*</i> . van der Schaft, Arjan J.	WeBTu.2 Univ. of Groningen
15:30-15:50 <i>Terminals and Ports (I)*</i> . Trentelman, Harry L.	WeBTu.3 Univ. of Groningen
15:50-16:10 <i>Distributed Parameter Systems (I)*</i> . van der Schaft, Arjan J.	WeBTu.4 Univ. of Groningen
WeBin1	Mandarin Hall
Algebraic and Computational Methods for Linear Systems (Interactive Session)	
14:30-15:50 <i>Solving Discrete Algebraic Riccati Equations: A New Recursive Method</i> , pp. 1720-1724.	WeBin1.1
Feng, Yantao Anderson, Brian D.O. Chen, Wei-tian	Australian National Univ. Australian National Univ. Australian National Univ.
14:30-15:50 <i>Iterative Solution to Matrix Equations of Form $A_i X B_j = F_i$</i> , pp. 1725-1728.	WeBin1.2
Ding, Jie Ding, Feng Liu, Yanjun	Jiangnan Univ. Jiangnan Univ. Jiangnan Univ.
14:30-15:50 <i>Robust Pole Assignment for Discrete-Time Linear Periodic Systems Via Output Feedback</i> , pp. 1729-1733.	WeBin1.4
Duan, Guang-Ren Lv, Lingling Zhou, Bin	Harbin Inst. of Tech. Harbin Inst. of Tech. Harbin Inst. of Tech.
14:30-15:50 <i>Lyapunov Stability Analysis of Higher-Order 2-D Systems</i> , pp. 1734-1739.	WeBin1.5
Rapisarda, Paolo Takaba, Kiyotsugu Kojima, Chiaki	Univ. of Southampton Kyoto Univ. Univ. of Tokyo
14:30-15:50 <i>On Algebraic Time-Derivative Estimation and Deadbeat State Reconstruction</i> , pp. 1740-1745.	WeBin1.6
Reger, Johann Jouffroy, Jerome	TU Ilmenau Univ. of Southern Denmark
14:30-15:50 <i>Transformability from Discrete-Time Periodic Non-Homogeneous Systems to Time-Invariant Ones</i> , pp. 1746-1751.	WeBin1.7
Hayakawa, Yoshikazu Jimbo, Tomohiko	Nagoya Univ. Toyota central R&D Lab. Inc.

14:30-15:50		WeBIn1.8
	<i>Realization of Transfer Functions Via Degree Decreasing Interpolation Circuits</i> , pp. 1752-1757.	
	Wakai, Yuya Tsumura, Koji	The Univ. of Tokyo The Univ. of Tokyo
14:30-15:50		WeBIn1.9
	<i>On Normal Realizations of Discrete-Time Systems with Consideration of Finite Precision Implementation</i> , pp. 1758-1763.	
	Zhu, Guangxin Wang, Kuang He, Xiongxiang	Zhejiang Univ. Zhejiang Univ. Zhejiang Univ. of Tech.
14:30-15:50		WeBIn1.10
	<i>Algorithms for Transformation into the Extended Jordan Controllable and Observable Forms</i> , pp. 1764-1769.	
	Busawon, Krishna K. Djemai, Mohamed	Northumbria Univ. Valenciennes Univ.

WeBIn2		Mandarin Hall
Control Applications I (Interactive Session)		

14:30-15:50		WeBIn2.1
	<i>A Quotient Method for Controlling the Acrobot</i> , pp. 1770-1775.	
	Sudarsandhari Shibani, Willson Muellhaupt, Philippe Bonvin, Dominique	Ec. Pol. Federale de Lausanne Ec. Pol. Fed. de Lausanne EPFL
14:30-15:50		WeBIn2.2
	<i>Global Asymptotic Stabilization of the Synchronization of Two Underactuated Spacecraft</i> , pp. 1776-1781.	
	Hutagalung, Maclaurin Hayakawa, Tomohisa	Tokyo Inst. of Tech. Tokyo Inst. of Tech.
14:30-15:50		WeBIn2.3
	<i>Nonlinear Port Controlled Hamiltonian Systems under Sampling</i> , pp. 1782-1787.	
	Normand-Cyrot, Marie-Dorothee Monaco, Salvatore Tiefensee, Fernando	CNRS-Supelec Univ. di Roma CNRS-Supelec-Univ. ParisXI
14:30-15:50		WeBIn2.4
	<i>On the Stability of a Class of Single-Mode Laser Diode Models</i> , pp. 1788-1793.	
	Dower, Peter M. Farrell, Peter Mark Hinton, Kerry	The Univ. of Melbourne The Univ. of Melbourne Univ. of Melbourne
14:30-15:50		WeBIn2.5
	<i>Optimal Interpolation to Re-Analyse PM10 Concentration Modelling Simulations</i> , pp. 1794-1799.	
	Candiani, Gabriele Carnevale, Claudio Filisina, Veronica Finzi, Giovanna Pisoni, Enrico Volta, Marialuisa	Univ. di Brescia Brescia Univ. Univ. of Brescia Univ. degli Studi di Brescia Univ. of Brescia Univ. degli Studi di Brescia
14:30-15:50		WeBIn2.6
	<i>Barrier Function Nonlinear Optimization for Optimal Decompression of Divers</i> , pp. 1800-1805.	
	Feng, Le Gutvik, Christian R. Johansen, Tor Arne Sui, Dan	The Norwegian Univ. of Science and Tech. Norwegian Univ. of Science and Norwegian Univ. of Science & Tech. Norwegian Univ. of Sci and Tech.
14:30-15:50		WeBIn2.7
	<i>Transfer Operator Method for Control in Fluid Flows</i> , pp. 1806-1811.	
	Vaidya, Umesh Ganapathysubramanian, Baskar Raghunathan, Arvind	Iowa State Univ. Iowa State Univ. United Tech. Res. Center
14:30-15:50		WeBIn2.9
	<i>Effects of Small Time-Delays on Dynamic Output Feedback Control of Offshore Steel Jacket Structures Subject to Wave-Induced Forces</i> , pp. 1812-1817.	
	Zhang, Xian-Ming Han, Qing-Long Han, Dongsheng	Central Queensland Univ. Central Queensland Univ. Central Queensland Univ.

WeBIn3		Mandarin Hall
Filtering and Estimation I (Interactive Session)		

14:30-15:50		WeBIn3.1
	<i>A Moving Horizon Scheme for Distributed State Estimation</i> , pp. 1818-1823.	
	Farina, Marcello Ferrari-Trecate, Giancarlo Scattolini, Riccardo	Pol. di Milano Univ. degli Studi di Pavia Pol. di Milano
14:30-15:50		WeBIn3.2

<i>Delay-Dependent H_∞ Filtering of Uncertain Stochastic Systems with Delays</i> , pp. 1824-1829.	Chen, Yun Wang, JunHong Xue, Anke Zhao, Xiaodong	Hangzhou Dianzi Univ. Hangzhou Dianzi Univ. Hangzhou Dianzi Univ. Hangzhou Dianzi Univ.
14:30-15:50		WeBIn3.3
<i>Self-Tuning Weighted Measurement Fusion Kalman Filter and Its Convergence Analysis</i> , pp. 1830-1835.	Ran, Chen-Jian Deng, Zi-Li	Heilongjiang Univ. Heilongjiang Univ.
14:30-15:50		WeBIn3.6
<i>Design of Observer-Based Controllers for LPV Systems with Unknown Parameters</i> , pp. 1836-1841.	Heemels, Maurice Daafouz, Jamal Millerioux, Gilles	Eindhoven Univ. of Tech. CRAN -INPL Nancy Univ.
14:30-15:50		WeBIn3.7
<i>On MLE Methods for Dynamical Systems with Fractionally Differenced Noise Spectra</i> , pp. 1842-1847.	Vivero, Oskar Heath, William Paul	The Univ. of Manchester Univ. of Manchester
14:30-15:50		WeBIn3.8
<i>L-Delay Input Reconstruction for Discrete-Time Linear Systems</i> , pp. 1848-1853.	Kirtikar, Siddharth Palanthandalam-Madapusi, Harish Zattoni, Elena Bernstein, Dennis S.	Univ. of Michigan, Ann Arbor Syracuse Univ. Univ. of Bologna Univ. of Michigan
14:30-15:50		WeBIn3.9
<i>On a Rational Transfer Function-Based Approach to Hoo Filter Design for Time-Delay Linear Systems</i> , pp. 1854-1859.	Korogui, Rubens H. Fioravanti, Andre R. Geromel, Jose C.	UNICAMP INRIA Rocquencourt UNICAMP
14:30-15:50		WeBIn3.10
<i>Interval Observers for Linear Systems with Delay</i> , pp. 1860-1865.	Mazenc, Frederic Niculescu, Silviu-Iulian Bernard, Olivier	INRIA Sophia-Antipolis, CNRS-Supelec Inria
WeBIn4		Mandarin Hall
Process Control (Interactive Session)		
14:30-15:50		WeBIn4.1
<i>Analysis and Control of the Exothermic Control Stirred Tank Reactor: The Power-Shaping Approach</i> , pp. 1866-1871.	Favache, Audrey Dochain, Denis	Univ. catholique de Louvain Univ. Catholique de Louvain
14:30-15:50		WeBIn4.2
<i>Assessment of Control System Performance with LTV Disturbance Dynamics: SISO Case</i> , pp. 1872-1877.	Liu, Chun-yu Huang, Biao Wang, Qinglin	Beijing Inst. of Tech. Univ. of Alberta Beijing Inst. of Tech.
14:30-15:50		WeBIn4.3
<i>Dissolved Oxygen Concentration Prediction Control through Multiobjective Evolutionary RBF Neural Network</i> , pp. 1878-1883.	Jin, Liang Fei, Luo Yuge, Xu	south china Univ. of Tech. south china Univ. of Tech. south china Univ. of Tech.
14:30-15:50		WeBIn4.4
<i>State Estimation for Batch Distillation Operations with a Novel Extended Kalman Filter Approach</i> , pp. 1884-1889.	Pan, Shuwen Su, Hongye Li, Pu Gu, Yong	Zhejiang Univ. Zhejiang Univ. Tech. Univ. of Ilmenau Zhejiang Univ.
14:30-15:50		WeBIn4.5
<i>Robust Analytical Scheme for Linear Non-Square Systems</i> , pp. 1890-1895.	Chen, Peiyang Ou, Linlin Gu, Danying Zhang, Weidong	Inst. of Automation, Chinese Acad. of Sciences Shanghai Jiaotong Univ. Shanghai Nuclear Engineering Res. and Design Inst. Shanghai Jiaotong Univ.
14:30-15:50		WeBIn4.6
<i>PLS-Based FDI of a Three-Tank Laboratory System</i> , pp. 1896-1901.	Klinkhieo, Supat Patton, Ron J.	The Univ. of Hull Univ. of Hull
14:30-15:50		WeBIn4.7
<i>Multivariable Control Performance Assessment Based on Generalized Minimum Variance Benchmark</i> , pp. 1902-1907.		

Zhao, Yu	Zhejiang Univ.
Su, Hongye	Zhejiang Univ.
Chu, Jian	Zhejiang Univ.
Zhao, Chao	Zhejiang Univ.
Zhang, Dengfeng	Nanjing Univ. of Science and Tech.
14:30-15:50	WeBIn4.8
<i>Cycle Prediction EWMA Run-To-Run Controller for Mixed-Product Drifting Process</i> , pp. 1908-1913.	
Ai, Bing	Huazhong Univ. of Science and Tech.
Zheng, Ying	Huazhong Univ. of Science and Tech.
Zhang, Hong	Huazhong Univ. of Science and Tech.
Wang, Zhou	Huazhong Univ. of Science and Tech.
Zhang, Zhen	Huazhong Univ. of Science and Tech.
14:30-15:50	WeBIn4.9
<i>Controller Parameters Dependence on Model Information through Dimensional Analysis</i> , pp. 1914-1919.	
Balaguer, Pedro	Univ. Jaume I de Castello
Ibeas, Asier	Univ. Aut3noma de Barcelona
Pedret, Carles	Univ. Aut3noma de Barcelona
Alcantara, Salva	UAB
WeBIn5	Mandarin Hall
Stability and Stabilization I (Interactive Session)	
14:30-15:50	WeBIn5.1
<i>A Switching Anti-Windup Design Using Multiple Lyapunov Functions</i> , pp. 1920-1925.	
Lu, Liang	Shanghai Jiao Tong Univ.
Lin, Zongli	Univ. of Virginia
14:30-15:50	WeBIn5.2
<i>Exponential Stabilization of Switched Linear Systems</i> , pp. 1926-1931.	
Raouf, Jamila	McGill Univ.
Michalska, Hannah H.	McGill Univ.
14:30-15:50	WeBIn5.3
<i>Observer-Based Control for Fractional-Order Continuous-Time Systems</i> , pp. 1932-1937.	
N'Doye, Ibrahima	CRAN
Zasadzinski, Michel	CRAN
Darouach, Mohamed	Univ. Henri Poincare-Nancy
Radhy, Nour-Eddine	Lab. Physique et Mat3riaux Micro3lectronique, Automatique
14:30-15:50	WeBIn5.4
<i>Finite-Time Stability and Stabilization of Switched Linear Systems</i> , pp. 1938-1943.	
Du, HaiBo	Southeast Univ.
Lin, Xiangze	Nanjing Agricultural Univ.
Li, Shihua	Southeast Univ.
14:30-15:50	WeBIn5.5
<i>Global Stabilization of Feedforward Systems with Lower-Order Vector Field</i> , pp. 1944-1949.	
Ding, Shihong	Southeast Univ.
Qian, Chunjiang	Univ. of Texas at San Antonio
Li, Shihua	Southeast Univ.
14:30-15:50	WeBIn5.6
<i>A Nonlinear IMC Approach Using Model Inversion from Data</i> , pp. 1950-1955.	
Canale, Massimo	Pol. di Torino
Novara, Carlo	Pol. di Torino
Signorile, Maria Carmela	Pol. di Torino
14:30-15:50	WeBIn5.7
<i>Adaptive Dynamic Surface Control for a Class of Uncertain Nonlinear Systems in Pure-Feedback Form</i> , pp. 1956-1961.	
Wang, Dan	Dalian Maritime Univ.
Li, Tieshan	Dalian Maritime Univ.
14:30-15:50	WeBIn5.8
<i>Can the Energy and Actuated Variables of Underactuated Mechanical Systems Be Controlled? --Example of the Acrobot with Counterweight</i> , pp. 1962-1967.	
Xin, Xin	Okayama Prefectural Univ.
Guo, Lei	Beihang Univ.
14:30-15:50	WeBIn5.9
<i>A Modified Contractive Model Predictive Control Approach</i> , pp. 1968-1973.	
Mejia, Juan	Univ. of Illinois
Stipanovic, Dusan M.	Univ. of Illinois, Urbana-Champaign
14:30-15:50	WeBIn5.10
<i>Exponential Stability Region Estimates for the State-Dependent Riccati Equation Controllers</i> , pp. 1974-1979.	
Chang, Insu	Univ. of Illinois at Urbana-Champaign
Chung, Soon-Jo	Univ. of Illinois at Urbana-Champaign
14:30-15:50	WeBIn5.11
<i>Unconstrained NCGPC with a Guaranteed Closed-Loop Stability: Case of Nonlinear SISO Systems with the Relative Degree Greater Than</i>	

<i>Four</i> , pp. 1980-1985. Dabo, Marcelin Chafouk, Houcine Langlois, Nicolas	Univ. de Rouen IRSEEM / ESIGELEC IRSEEM / ESIGELEC
14:30-15:50 <i>Stabilize an N-Dimensional Quantized Nonlinear Feedforward System with 1 Bit</i> , pp. 1986-1991. Ling, Qiang Lemmon, Michael Lin, Hai	WeBIn5.12 Univ. of Science and Tech. of China Univ. of Notre Dame National Univ. of Singapore
14:30-15:50 <i>Time Headway Requirements for String Stability of Homogeneous Linear Unidirectionally Connected Systems</i> , pp. 1992-1997. Klinge, Steffi Middleton, Richard H.	WeBIn5.13 NUI Maynooth National Univ. of Ireland Maynooth
WeBIn6	Mandarin Hall
Control and Communication in Networked Systems (Interactive Session)	
14:30-15:50 <i>Prediction-Based Power Control for Distributed Cellular Communication Networks with Time-Varying Channel Uncertainties</i> , pp. 1998-2003. Subramanian, Sankrith Shea, John Dixon, Warren E.	WeBIn6.1 Univ. Univ. of Florida Univ. of Florida
14:30-15:50 <i>Joint Rate Control and Routing for Energy-Constrained Wireless Sensor Networks</i> , pp. 2004-2009. Zheng, Meng Yu, Haibin Zheng, Jianying Liang, Wei Zeng, Peng	WeBIn6.2 Shenyang Inst. of Automation Chinese Acad. of Sciences Shenyang Inst. of Automation chinese academy of science Shenyang Inst. of Automation
14:30-15:50 <i>Algorithms and Stability Analysis for Content Distribution Over Multiple Multicast Trees</i> , pp. 2010-2016. Zheng, Xiaoying Cho, Chunglae Xia, Ye	WeBIn6.3 Univ. of Florida Univ. of Florida Univ. of Florida
14:30-15:50 <i>On Observer Based Stabilization of Networked Systems</i> , pp. 2017-2022. Caravani, Paolo De Santis, Elena	WeBIn6.4 Univ. of L'Aquila Univ. of L'Aquila
14:30-15:50 <i>One-Bit Processing for Wireless Networked Real-Time Control</i> , pp. 2023-2027. Wu, Xiaofeng	WeBIn6.5 Univ. of Sydney
14:30-15:50 <i>Quantized Guaranteed Cost Control for Wireless Networked Control System</i> , pp. 2028-2033. Hua, Changchun Caihong, Ye Guan, Xinpeng	WeBIn6.6 Yanshan Univ. Yanshan Univ. Yanshan Univ.
14:30-15:50 <i>Robust Power Control of Single Sink Optical Networks with Time-Delays</i> , pp. 2034-2039. Stefanovic, Nem Pavel, Lacra	WeBIn6.7 Univ. of Toronto Univ. of Toronto
14:30-15:50 <i>Controlling Ideal Turbulence in Time-Delayed Chua's Circuits and an Application to Communications</i> , pp. 2040-2045. Suzuki, Masayasu Sakamoto, Noboru	WeBIn6.8 Nagoya Univ. Nagoya Univ.
14:30-15:50 <i>Distributed H_2: Control of Spatially Interconnected Systems with Random Communication Packet Losses</i> , pp. 2046-2051. Li, Hui Wu, Qinghe Yu, Di	WeBIn6.9 Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.
14:30-15:50 <i>Velocity-Consensus Control for Networks of Multiple Double-Integrators</i> , pp. 2052-2057. Chen, Jie Wang, Long Xiao, Feng	WeBIn6.10 Beijing Inst. of Tech. Peking Univ. Beijing Inst. of Tech.
14:30-15:50 <i>Hinf Filtering for Networked Systems with Random Sensor Delays, Packet Dropouts and Missing Measurements</i> , pp. 2058-2063. Moayed, Maryam Soh, Yeng Chai Foo, Yung Kuan	WeBIn6.11 Nanyang Tech. Univ. Nanyang Tech. Univ. Organization

14:30-15:50		WeBIn6.12
<i>Shortest Path Optimization under Limited Information</i> , pp. 2064-2069.		
Rinehart, Michael		Massachusetts Inst. of Tech.
Dahleh, Munther A.		Massachusetts Inst. of Tech.
14:30-15:50		WeBIn6.13
<i>Optimal Tracking Performance of Discrete-Time Systems Over an Additive White Noise Channel</i> , pp. 2070-2075.		
Li, Yiqian		Univ. of California, Riverside
Tuncel, Ertem		Univ. of California, Riverside
Chen, Jie		Univ. of California at Riverside
Su, Weizhou		South China Univ. of Tech.
14:30-15:50		WeBIn6.14
<i>Quantized Predictive Control Over Erasure Channels</i> , pp. 2076-2081.		
Quevedo, Daniel E.		The Univ. of Newcastle
Ostergaard, Jan		Aalborg Univ.
14:30-15:50		WeBIn6.15
<i>Dynamic Clock Calibration Via Temperature Measurement</i> , pp. 2082-2087.		
Shuman, David		Univ. of Michigan
Liu, Mingyan		Univ. of Michigan
14:30-15:50		WeBIn6.16
<i>Virtual Reality Enhanced Bilateral Teleoperation with Communication Constraints</i> , pp. 2088-2093.		
Polushin, Iliia G.		Univ. of Western Ontario
Rhineland, Jason		Carleton Univ.
Liu, Peter X.		Carleton Univ.
Lung, Chung-Horng		Carleton Univ.
14:30-15:50		WeBIn6.17
<i>Uniform Stabilization of Markovian Jump Linear Systems with Logarithmic Quantization - a Convex Approach</i> , pp. 2094-2099.		
Zhang, Chun		Cisco Systems, Inc.
Dullerud, Geir E.		Univ. of Illinois, Urbana-Champaign

WeC01		3D
Nonlinear Systems II (Regular Session)		
Chair: Boukas, El-Kebir		Ec. Pol. de Montreal
Co-Chair: Guay, Martin		Queen's Univ.
16:30-16:50		WeC01.1
<i>Stabilizing Controllers Design for Feedforward Nonlinear Time-Delay Systems</i> , pp. 2100-2105.		
Zhang, Xianfu		Shandong Jianzhu Univ.
Boukas, El-Kebir		Ec. Pol. de Montreal
Baron, Luc		École Pol. de Montréal
16:50-17:10		WeC01.2
<i>Magnetization Switching in Small Ferromagnetic Ellipsoidal Samples</i> , pp. 2106-2111.		
Alouges, François		Ec. Pol.
Beauchard, Karine		Univ. Paris-Sud, France
Sigalotti, Mario		INRIA Nancy - Grand Est
17:10-17:30		WeC01.3
<i>A Motion Planning Algorithm for the Rolling-Body Problem</i> , pp. 2112-2116.		
Alouges, François		Ec. Pol.
Chitour, Yacine		Univ. Paris-Sud, CNRS, Supélec
Long, Ruixing		Ec. Pol.
17:30-17:50		WeC01.4
<i>A Necessary Condition for Path-Finding by the Homotopy Continuation Method</i> , pp. 2117-2124.		
Guay, Martin		Queen's Univ.
Amis, Scott		Queen's Univ.
17:50-18:10		WeC01.5
<i>A Pseudo-H Infinity Control Theory and Its Application to the Control of Pendulum-Like Nonlinear Systems</i> , pp. 2125-2131.		
Ouyang, Hua		UNSW@ADFA
Petersen, Ian R.		UNSW at Australian Def. Force Acad.
Ugrinovskii, Valery		Univ. of New South Wales
18:10-18:30		WeC01.6
<i>On the PDEs Arising in IDA-PBC</i> , pp. 2132-2137.		
Acosta, José Ángel		Univ. de Sevilla
Astolfi, Alessandro		Imperial Coll. & Univ. of Rome

WeC02		3E
Stability Analysis of Switched Systems (Regular Session)		
Chair: Hirata, Kenji		Nagaoka Univ. of Tech.
Co-Chair: Seron, Maria		The Univ. of Newcastle
16:30-16:50		WeC02.1
<i>L2-Induced Gain Analysis for a Class of Switched Systems</i> , pp. 2138-2143.		
Hirata, Kenji		Nagaoka Univ. of Tech.

Hespanha, Joao P.	Univ. of California, Santa Barbara
16:50-17:10	WeC02.2
<i>On Practical Stabilizability of Discrete-Time Switched Affine Systems (I)</i> , pp. 2144-2149.	
Xu, Xuping	School of Engineering, California Baptist Univ.
Zhai, Guisheng	Osaka Prefecture Univ.
He, Shouling	Penn State Erie, The Behrend Coll.
17:10-17:30	WeC02.3
<i>Componentwise Ultimate Bound Computation for Switched Linear Systems</i> , pp. 2150-2155.	
Haimovich, Hernan	Univ. Nacional de Rosario, Argentina
Seron, Maria	The Univ. of Newcastle
17:30-17:50	WeC02.4
<i>On Stability of Linear Switched Differential Algebraic Equations</i> , pp. 2156-2161.	
Liberzon, Daniel	Univ. of Illinois, Urbana-Champaign
Trenn, Stephan	Univ. of Illinois at Urbana-Champaign
17:50-18:10	WeC02.5
<i>The Set of Asymptotically Stable Switching Sequences of Linear Discrete-Time Switching Systems</i> , pp. 2162-2167.	
Xiao, Mingqing	Southern Illinois Univ.
18:10-18:30	WeC02.6
<i>A Note on Input-To-State Stability and Averaging of Fast Switching Systems</i> , pp. 2168-2173.	
Wang, Wei	The Univ. of Melbourne
Nesic, Dragan	Univ. of Melbourne

WeC03 3C

LMI's and Robust Control Methods (Regular Session)

Chair: Martinez Molina, John Jairo	GIPSA-Lab. GRENOBLE-INP
Co-Chair: Feng, Yu	Ec. des Mines de Nantes
16:30-16:50	WeC03.1
<i>Constructing a Sequence of Relaxation Problems for Robustness Analysis of Uncertain LTI Systems Via Dual LMIs</i> , pp. 2174-2179.	
Matsuda, Yusuke	Kyoto Univ.
Ebihara, Yoshio	Kyoto Univ.
Hagiwara, Tomomichi	Kyoto Univ.
16:50-17:10	WeC03.2
<i>Gain-Scheduled Control Synthesis by Using Filtered Scheduling Parameters</i> , pp. 2180-2185.	
Masubuchi, Izumi	Hiroshima Univ.
Kurata, Iori	Hiroshima Univ.
17:10-17:30	WeC03.3
<i>A Mixed H_2/H_∞-Based Semiactive Control for Vibration Mitigation in Flexible Structures</i> , pp. 2186-2191.	
Zapateiro, Mauricio	Univ. of Girona
Karimi, Hamid Reza	Univ. of Agder
Luo, Ningsu	Univ. of Girona
Phillips, Brian	UIUC
Spencer, B.F.	UIUC
17:30-17:50	WeC03.4
<i>Design of \mathcal{H}_∞ Bounded Non-Fragile Controllers for Discrete-Time Systems</i> , pp. 2192-2197.	
Briat, Corentin	INPG/ENSIEG
Martinez Molina, John Jairo	GIPSA-Lab. GRENOBLE-INP
17:50-18:10	WeC03.5
<i>Structured LFT Representation of Digital LTI Filters/Controllers Implementation As a Graphic Tool</i> , pp. 2198-2203.	
Feng, Yu	IRCCyN/Ec. des Mines de Nantes
Chevrel, Philippe	IRCCyN / Ec. des Mines de Nantes
18:10-18:30	WeC03.6
<i>An Exterior-Point Approach to the Robust D-Stability Control Problem</i> , pp. 2204-2209.	
Kami, Yasushi	Akashi National Coll. of Tech.
Tanaka, Hideki	Advanced Courses of Akashi National Coll. of Tech.
Nobuyama, Eitaku	Kyushu Inst. of Tech.

WeC04 3A

Symbolic Approaches to Control of Dynamical Systems (Invited Session)

Chair: Belta, Calin	Boston Univ.
Co-Chair: Andersson, Sean	Boston Univ.
Organizer: Belta, Calin	Boston Univ.
Organizer: Andersson, Sean	Boston Univ.
16:30-16:50	WeC04.1
<i>Robust Stability of Multi-Hop Control Networks (I)</i> , pp. 2210-2215.	
Weiss, Gera	Univ. of Pennsylvania
D'Innocenzo, Alessandro	Univ. of L'Aquila
Alur, Rajeev	U Penn
Johansson, Karl H.	Royal Inst. of Tech.
Pappas, George J.	Univ. of Pennsylvania

16:50-17:10		WeC04.2
<i>A Symbolic Model Approach to the Digital Control of Nonlinear Time-Delay Systems (I)</i> , pp. 2216-2221.		
Pola, Giordano		Univ. of L'Aquila
Pepe, Pierdomenico		Univ. of L'Aquila
Di Benedetto, M. Domenica		Univ. of L'Aquila
Tabuada, Paulo		Univ. of California at Los Angeles
17:10-17:30		WeC04.3
<i>Sampling-Based Motion Planning with Deterministic Mu-Calculus Specifications (I)</i> , pp. 2222-2229.		
Karaman, Sertac		Massachusetts Inst. of Tech.
Frazzoli, Emilio		Massachusetts Inst. of Tech.
17:30-17:50		WeC04.4
<i>A Contractivity Approach for Probabilistic Bisimulations of Diffusion Processes (I)</i> , pp. 2230-2235.		
Abate, Alessandro		Stanford Univ.
17:50-18:10		WeC04.5
<i>A Probabilistic Approach for Control of a Stochastic System from LTL Specifications (I)</i> , pp. 2236-2241.		
Lahijanian, Morteza		Boston Univ.
Andersson, Sean		Boston Univ.
Belta, Calin		Boston Univ.
18:10-18:30		WeC04.6
<i>An Online Algorithm for Minimal Sensor Activation in Discrete Event Systems (I)</i> , pp. 2242-2247.		
Wang, Weilin		Univ. of Michigan
Lafortune, Stephane		Univ. of Michigan
Lin, Feng		Wayne State Univ.
Girard, Anouck		Univ. of Michigan, Ann Arbor

WeC05		3J
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Optimal Control II (Regular Session)		
Chair: Sampei, Mitsuji		Tokyo Inst. of Tech.
Co-Chair: Nakaura, Shigeki		Sasebo National Coll. of Tech.
16:30-16:50		WeC05.1
<i>Asymptotic Analysis of an Optimal Control Problem Connected to the Human Locomotion</i> , pp. 2248-2253.		
Bayen, T�rence		Univ. de Montpellier
Chitour, Yacine		Univ. Paris-Sud, CNRS, Supelec
Jean, Frederic		Ec. Nat. Sup. des Tech. Avancees
Mason, Paolo		Sup�elec
16:50-17:10		WeC05.2
<i>A Hybrid DE-SQP Algorithm with Switching Procedure for Dynamic Optimization</i> , pp. 2254-2259.		
Wang, Ping		China Univ. of Petroleum
Tian, Xuemin		China Univ. of Petroleum
17:10-17:30		WeC05.3
<i>Inverse Optimal Control Problem for Bilinear Systems: Application to the Inverted Pendulum with Horizontal and Vertical Movement</i> , pp. 2260-2267.		
Kanazawa, Masao		Tokyo Inst. of Tech.
Nakaura, Shigeki		Sasebo National Coll. of Tech.
Sampei, Mitsuji		Tokyo Inst. of Tech.
17:30-17:50		WeC05.4
<i>Function Approximation for the Deterministic Hamilton-Jacobi-Bellman Equation</i> , pp. 2268-2273.		
Rungger, Matthias		Univ. of Kassel
Stursberg, Olaf		Univ. of Kassel
17:50-18:10		WeC05.5
<i>Robust Nonlinear Optimal Control of Dynamic Systems with Affine Uncertainties</i> , pp. 2274-2279.		
Houska, Boris		Univ. of Leuven
Diehl, Moritz		Katholieke Univ. Leuven
18:10-18:30		WeC05.6
<i>Bang-Bang and Singular Controls in a Mathematical Model for Combined Anti-Angiogenic and Chemotherapy Treatments</i> , pp. 2280-2285.		
Ledzewicz, Urszula		Southern Illinois Univ. at Edwardsville
Maurer, Helmut		Univ. M�nster
Schattler, Heinz M.		Washington Univ.

WeC06		3G
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Optimization of Discrete Event Systems (Regular Session)		
Chair: van den Boom, Ton J. J.		Delft Univ. of Tech.
Co-Chair: Farhi, Nadir		Univ. of Texas at Dallas
16:30-16:50		WeC06.1
<i>MPC for Max-Plus-Linear Systems with an Output Cost Criterion: Steady-State Behavior and Guaranteed Stability</i> , pp. 2286-2291.		
van den Boom, Ton J. J.		Delft Univ. of Tech.
De Schutter, Bart		Delft Univ. of Tech.
16:50-17:10		WeC06.2
<i>Modeling and Control of Elementary 2D-Traffic Systems Using Petri Nets and Minplus Algebra</i> , pp. 2292-2297.		

Farhi, Nadir	Univ. of Texas at Dallas
17:10-17:30	WeC06.3
<i>Online Policy Iteration Algorithm for Semi-Markov Switching State-Space Control Processes</i> , pp. 2298-2303.	
Jiang, Qi	Hefei Univ. of Tech.
Xi, Hong-Sheng	Univ. of Science and Tech. of China
Yin, Bao-Qun	Univ. of Science and Tech. of China
17:30-17:50	WeC06.4
<i>Revisiting the Optimality of the C Mu Rule with Stochastic Flow Models</i> , pp. 2304-2309.	
Kebarighotbi, Ali	Boston Univ.
Cassandras, Christos G.	Boston Univ.
17:50-18:10	WeC06.5
<i>Optimal Control of Multiple CSPS System Based on Event-Based Q Learning</i> , pp. 2310-2314.	
Tang, Hao	Hefei Univ. of Tech.
Wan, Haifeng	Hefei Univ. of Tech.
Zhou, Lei	Hefei Univ. of Tech.
Han, Jianghong	Hefei Univ. of Tech.
18:10-18:30	WeC06.6
<i>Improved Constrained Ordinal Optimization for Simulation-Based Constrained Optimization</i> , pp. 2315-2320.	
Jia, Qing-Shan	Tsinghua Univ.

WeC07	5C
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Kalman Filtering (Regular Session)	
Chair: Bitmead, Robert	Univ. of California San Diego
Co-Chair: Hu, Xiaoming	KTH
16:30-16:50	WeC07.1
<i>Bounds Related to the Riccati Difference Equation for Linear Time Varying Systems</i> , pp. 2321-2326.	
Costa, Eduardo F.	Univ. de São Paulo
Astolfi, Alessandro	Imperial Coll. & Univ. of Rome
16:50-17:10	WeC07.2
<i>Multi-Sensor Track Fusion Via Multiple-Model Adaptive Filter</i> , pp. 2327-2332.	
Fong, Li-Wei	Yu Da Univ.
17:10-17:30	WeC07.3
<i>An Optimization Approach to Adaptive Kalman Filtering</i> , pp. 2333-2338.	
Karasalo, Maja	KTH
Hu, Xiaoming	KTH
17:30-17:50	WeC07.4
<i>Stochastic Reconstructibility and Estimability</i> , pp. 2339-2344.	
Liu, Andrew R.	Univ. of California, San Diego
Bitmead, Robert	Univ. of California San Diego
17:50-18:10	WeC07.5
<i>Self-Tuning Weighted Measurement Fusion Kalman Filter Based on ARMA Innovation Model</i> , pp. 2345-2350.	
Gao, Yuan	Heilongjiang Univ.
Deng, Zi-Li	Heilongjiang Univ.
Ran, Chen-Jian	Heilongjiang Univ.
18:10-18:30	WeC07.6
<i>Two Correlated Measurement Fusion Kalman Filtering Algorithms Based on Orthogonal Transformation and Their Functional Equivalence</i> , pp. 2351-2356.	
Ran, Chen-Jian	Heilongjiang Univ.
Deng, Zi-Li	Heilongjiang Univ.

WeC08	3I
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Distributed Parameter Systems I (Invited Session)	
Chair: Iftime, Orest V.	Univ. of Groningen
Co-Chair: Byrnes, Christopher I.	Washington Univ.
Organizer: Demetriou, Michael A.	Worcester Pol. Inst.
16:30-16:50	WeC08.1
<i>On Some Aspects of Platoon Control Problems (I)</i> , pp. 2357-2362.	
Curtain, Ruth F.	Univ. of Groningen
Iftime, Orest V.	Univ. of Groningen
Zwart, Hans	Univ. of Twente
16:50-17:10	WeC08.2
<i>Boundary Stabilization of an Anti-Stable Wave Equation with In-Domain Anti-Damping (I)</i> , pp. 2363-2368.	
Smyshlyaev, Andrey	Univ. of California at San Diego
Cerpa, Eduardo	Univ. Técnica Federico Santa María
Krstic, Miroslav	Univ. of California at San Diego
17:10-17:30	WeC08.3
<i>On the Transfer Function of the Zero Dynamics for a Boundary Controlled Heat Problem in Two Dimensions (I)</i> , pp. 2369-2374.	
Byrnes, Christopher I.	NCSU and KTH
Gilliam, David S.	Texas Tech. Univ.

17:30-17:50		WeC08.4
<i>A Predictive Control Method for Nonlinear Parabolic PDE Systems (I)</i> , pp. 2375-2380.		
Armaou, Antonios		The Pennsylvania State Univ.
17:50-18:10		WeC08.5
<i>Controlling Distributed Parameter Systems Using Mobile Actuator-Plus-Sensor Networks (I)</i> , pp. 2381-2386.		
Demetriou, Michael A.		Worcester Pol. Inst.
18:10-18:30		WeC08.6
<i>Regulation of Film Thickness, Surface Roughness and Porosity in Thin Film Growth Using Deposition Rate (I)</i> , pp. 2387-2394.		
Hu, Gangshi		Univ. of California, Los Angeles
Christofides, Panagiotis D.		Univ. of California at Los Angeles
Zhang, Xinyu		Univ. of California, Los Angeles

WeC09 3H

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

Chair: Vela, Patricio A.		Georgia Inst. of Tech.
Co-Chair: Niethammer, Marc		Univ. of North Carolina, Chapel Hill
Organizer: Vela, Patricio A.		Georgia Inst. of Tech.
Organizer: Niethammer, Marc		Univ. of North Carolina, Chapel Hill
16:30-16:50		WeC09.1
<i>Tracking Deforming Objects by Filtering and Prediction in the Space of Curves (I)</i> , pp. 2395-2401.		
Sundaramoorthi, Ganesh		UCLA
Mennucci, Andrea		Scuola Normale Superiore
Soatto, Stefano		Univ. of California, Los Angeles
Yezzi, Anthony		Georgia Inst. of Tech.
16:50-17:10		WeC09.2
<i>Visual Motion Observer-Based Pose Synchronization: A Passivity Approach (I)</i> , pp. 2402-2407.		
Fujita, Masayuki		Tokyo Inst. of Tech.
Hatanaka, Takeshi		Tokyo Inst. of Tech.
Kobayashi, Naoto		Tokyo Inst. of Tech.
Ibuki, Tatsuya		Tokyo Inst. of Tech.
Spong, Mark W.		Univ. of Texas at Dallas
17:10-17:30		WeC09.3
<i>Inverse Optimal Homography-Based Visual Servo Control Via an Uncalibrated Camera (I)</i> , pp. 2408-2413.		
Johnson, Marcus		Univ. of Florida
Hu, Guoqiang		Kansas State Univ.
Dupree, Keith		Univ. of Florida
Dixon, Warren E.		Univ. of Florida
17:30-17:50		WeC09.4
<i>Using Dynamics to Recover 3-Dimensional Euclidian Structure from 2-Dimensional Perspective Projections (I)</i> , pp. 2414-2419.		
Sznaier, Mario		Northeastern Univ.
Ayazoglu, Mustafa		Northeastern Univ.
Camps, Octavia I.		Northeastern Univ.
17:50-18:10		WeC09.5
<i>Towards a Local Kalman Filter for Visual Tracking (I)</i> , pp. 2420-2426.		
Ndiour, Ibrahima		Georgia Inst. of Tech.
Vela, Patricio A.		Georgia Inst. of Tech.
18:10-18:30		WeC09.6
<i>An Optimal Control Approach for the Registration of Image Time-Series (I)</i> , pp. 2427-2434.		
Niethammer, Marc		Univ. of North Carolina, Chapel Hill
Hart, Gabe		Univ. of North Carolina, Chapel Hill
Zach, Christopher		Univ. of North Carolina, Chapel Hill

WeC10 5D

Robust Adaptive Control (Regular Session)

Chair: Shamma, Jeff S.		Georgia Inst. of Tech.
Co-Chair: Kvasnica, Michal		Slovak Univ. of Tech. in Bratislava
16:30-16:50		WeC10.1
<i>Stability Overlay for Linear and Nonlinear Time-Varying Plants</i> , pp. 2435-2440.		
Rosa, Paulo Andre Nobre		Inst. for Systems and Robotics - Inst. Superior
Shamma, Jeff S.		Georgia Inst. of Tech.
Silvestre, Carlos		Inst. Superior Tecnico
Athans, Michael		Inst. Superior Tecnico
16:50-17:10		WeC10.2
<i>Multiple-Model Adaptive Control with Set-Valued Observers</i> , pp. 2441-2447.		
Rosa, Paulo Andre Nobre		Inst. for Systems and Robotics - Inst. Superior
Silvestre, Carlos		Inst. Superior Tecnico
Shamma, Jeff S.		Georgia Inst. of Tech.
Athans, Michael		Inst. Superior Tecnico
17:10-17:30		WeC10.3

<i>Robust Adaptive Control of a Class of Nonlinear Systems with Unknown Prandtl-Ishilinskii-Like Hysteresis</i> , pp. 2448-2453.	Concordia Univ. Concordia Univ. Beihang Univ.
Fu, Jun Xie, Wenfang Wang, Shao-Ping	
17:30-17:50	WeC10.4
<i>Robust Adaptive Minimum-Time Control of Piecewise Affine Systems</i> , pp. 2454-2459.	Slovak Univ. of Tech. in Bratislava Slovak Univ. of Tech. in Bratislava Slovak Univ. of Tech. in Bratislava Slovak Univ. of Tech. in Bratislava
Kvasnica, Michal Herceg, Martin Cirka, Lubos Fikar, Miroslav	
17:50-18:10	WeC10.5
<i>Robust Adaptive Backstepping Control Design for a Nonlinear Hydraulic-Mechanical System</i> , pp. 2460-2467.	Univ. of Agder Univ. of Agder Univ. of Agder Univ. of Agder Univ. of Agder Tech. Univ. of Denmark
Choux, Martin Karimi, Hamid Reza Hovland, Geir Hansen, Michael Rygaard Ottestad, Morten Blanke, Mogens	
18:10-18:30	WeC10.6
<i>A New Approach to Design Robust Backstepping Controller for MIMO Nonlinear Systems with Input Unmodeled Dynamics</i> , pp. 2468-2473.	Nanyang Tech. Univ. Nanyang Tech. Univ.
Wang, Wei Wen, Changyun	

WeC11	5J
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Quantum Information and Control (Regular Session)	
Chair: Cong, Shuang Co-Chair: Xi, Zairong	Univ. of Science and Tech. of China Lab. Acad. of
16:30-16:50	WeC11.1
<i>Feedback Interconnection of Open Quantum Systems: A Small Gain Theorem</i> , pp. 2474-2479.	Univ. of New South Wales UNSW at Australian Def. Force Acad.
Somaraju, Ram Abhinav Petersen, Ian R.	
16:50-17:10	WeC11.2
<i>Quantum-Feedback-Control Induced Bifurcation and Its Application to Qubit Readout (I)</i> , pp. 2480-2485.	Tsinghua Univ. Tsinghua Univ. Tsinghua Univ. Professor Washington Univ.
Zhang, Jing Wu, Rebing Liu, Yuxi Li, Chunwen Tarn, Tzyh-Jong	
17:10-17:30	WeC11.3
<i>Population Control of Quantum States Based on Invariant Subsets under a Diagonal Lyapunov Function</i> , pp. 2486-2491.	Univ. of Science and Tech. of China Univ. of Science and Tech. of China USTC
Kuang, Sen Cong, Shuang Lou, Yuesheng	
17:30-17:50	WeC11.4
<i>Synthesis of Linear Quantum Stochastic Systems Via Quantum Feedback Networks</i> , pp. 2492-2497.	Australian National Univ.
Nurdin, Hendra Ishwara	
17:50-18:10	WeC11.5
<i>Control of Single Spin with Markovian Environment</i> , pp. 2498-2503.	MIT
Yuan, Haidong	
18:10-18:30	WeC11.6
<i>Controlled Population Transfer for Quantum Computing in Non-Markovian Noise Environment (I)</i> , pp. 2504-2509.	Acad. ces Lab. demy CAS
Cui, Wei Xi, Zairong Pan, Yu	

WeC12	5E
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Aerospace II (Regular Session)	
Chair: Banda, Siva S. Co-Chair: He, Fenghua	Air Force Res. Lab. Harbin Inst. of Tech.
16:30-16:50	WeC12.1
<i>Trajectory Optimization in Convex Underapproximations of Safe Regions</i> , pp. 2510-2515.	Univ. of California - Berkeley UC Berkeley
Ding, Jerry Tomlin, Claire J.	
16:50-17:10	WeC12.2
<i>Attitude Recovery for Microsatellite Via Magnetic Torque</i> , pp. 2516-2521.	Harbin Inst. of Tech. Harbin Inst. of Tech. Univ. of Central Florida
Chen, Weiyue Jing, Wuxing Li, Chaoyong	
17:10-17:30	WeC12.3

<i>Robust Global Asymptotic Attitude Stabilization of a Rigid Body by Quaternion-Based Hybrid Feedback</i> , pp. 2522-2527.	
Mayhew, Christopher G.	Univ. of California, Santa Barbara
Sanfelice, Ricardo G.	Univ. of Arizona
Teel, Andrew R.	Univ. of California at Santa Barbara
17:30-17:50	WeC12.4
<i>Output Tracking of VTOL Aircraft with Delayed Attitude Measurements</i> , pp. 2528-2533.	
Zhu, Bo	Beijing Univ. of Aeronautics and Astronautics
Wang, Xinhua	Beijing Univ. of Aeronautics and Astronautics
Cai, Kai-Yuan	School of Automation, Beijing Univ. of Aeronautics and Astr
17:50-18:10	WeC12.5
<i>Estimation of Arrival-Departure Capacity Tradeoffs in Multi-Airport Systems</i> , pp. 2534-2540.	
Ramanujam, Varun	Massachusetts Inst. of Tech.
Balakrishnan, Hamsa	Massachusetts Inst. of Tech.
18:10-18:30	WeC12.6
<i>A Finite-Time Gain Measure and Its Application to Coordinated Targets Assignment</i> , pp. 2541-2545.	
He, Fenghua	Harbin Inst. of Tech.
Ji, Denggao	Harbin Inst. of Tech.
Yao, Yu	Harbin Inst. of Tech.

WeC13	5A
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Machine Learning (Regular Session)	
Chair: Castanon, David A.	Boston Univ.
Co-Chair: Paschalidis, Ioannis	Boston Univ.
16:30-16:50	WeC13.1
<i>A Distributed Machine Learning Framework</i> , pp. 2546-2551.	
Alpcan, Tansu	Berlin Tech. Univ.
Bauckhage, Christian	Univ. of Bonn
16:50-17:10	WeC13.2
<i>Modified Particle Filter for Object Tracking in Low Frame Rate Video</i> , pp. 2552-2557.	
Zhang, Tao	Southeast Univ.
Fei, Shumin	Southeast Univ.
Hong, Lu	southeast Univ.
Li, Xiaodong	Southeast Univ.
17:10-17:30	WeC13.3
<i>Support Vector Machine Classifiers for Sequential Decision Problems</i> , pp. 2558-2563.	
Rodriguez-Diaz, Eladio	Boston Univ.
Castanon, David A.	Boston Univ.
17:30-17:50	WeC13.4
<i>An Actor-Critic Method Using Least Squares Temporal Difference Learning</i> , pp. 2564-2569.	
Paschalidis, Ioannis	Boston Univ.
Li, Keyong	Boston Univ.
Moazzez Estanjini, Reza	Boston Univ.
17:50-18:10	WeC13.5
<i>Adaptive Inverse Control Using Support Vector Regression</i> , pp. 2570-2575.	
Shin, Jongho	Seoul National Univ.
Kim, H. Jin	Seoul National Univ.
Kim, Youdan	Seoul National Univ.
18:10-18:30	WeC13.6
<i>Standard Dynamic Programming Applied to Time Aggregated Markov Decision Processes</i> , pp. 2576-2580.	
Arruda, Edilson	Pontificia Univ. Católica do Rio Grande do Sul
Fragoso, Marcelo	LNCC / MCT

WeC14	5B
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Control-Oriented Identification (Regular Session)	
Chair: Chen, Tongwen	Univ. of Alberta
Co-Chair: Kulcsar, Balazs	Delft Univ. of Tech.
16:30-16:50	WeC14.1
<i>Identification for Robust Inferential Control</i> , pp. 2581-2586.	
Oomen, Tom	Eindhoven Univ. of Tech.
Bosgra, Okko H.	Eindhoven Univ. of Tech.
van de Wal, Marc	Philips Applied Tech.
16:50-17:10	WeC14.2
<i>Identification of Low-Order Process Model with Time Delay from Closed-Loop Step Test</i> , pp. 2587-2591.	
Liu, Tao	Hong Kong Univ. of Science & Tech.
Gao, Furong	Hong Kong Univ. of Science & Tech.
Zhao, Chunhui	The Hong Kong Univ. of Science and Tech.
17:10-17:30	WeC14.3
<i>Closed-Loop Identification for Model Predictive Control: Direct Method</i> , pp. 2592-2597.	
Yan, Jun	Univ. of British Columbia

Harinath, Eranda Dumont, Guy A.	Univ. of British Columbia Univ. of British Columbia
17:30-17:50 <i>Nonlinear Model Predictive Control Using Adaptive Hinging Hyperplanes Model</i> , pp. 2598-2603.	WeC14.4
Xu, Jun Huang, Xiaolin Wang, Shuning	Tsinghua Univ. Tsinghua Univ. Tsinghua Univ.
17:50-18:10 <i>Closed-Loop Subspace Predictive Control for Hammerstein Systems</i> , pp. 2604-2609.	WeC14.5
Kulcsar, Balazs van Wingerden, Jan-Willem Dong, Jianfei Verhaegen, Michel	Delft Univ. of Tech. Delft Univ. of Tech. Delft Univ. of Tech. Delft Univ. of Tech.
18:10-18:30 <i>On System Identification in a Networked Environment</i> , pp. 2610-2615.	WeC14.6
Wang, Jiandong Zheng, Wei Xing Chen, Tongwen	Peking Univ. Univ. of Western Sydney Univ. of Alberta

WeC15	3B
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Stochastic Control III (SIAM Session)	
Chair: Guo, Xin Co-Chair: Kleptsyna, Marina	Dept of IEOR, UC Berkeley, CA Univ. du Maine Faculté des Sciences
16:30-16:50 <i>Direct Solution of the Parametric Stochastic Distribution Control Problem</i> , pp. 2616-2621.	WeC15.1
Ghasemi Afshar, Puya Nobakhti, Amin Wang, Hong	The Univ. of Manchester Sharif Univ. of Tech. The Univ. of Manchester
16:50-17:10 <i>Fault Detection and Isolation for Stochastic Linear Hybrid Systems</i> , pp. 2622-2627.	WeC15.2
Seah, Chze Eng Hwang, Inseok	Purdue Univ. Purdue Univ.
17:10-17:30 <i>Decentralized Adaptive Synchronization of a Stochastic Discrete-Time Multi-Agent Dynamic Model</i> , pp. 2628-2633.	WeC15.3
Ma, Hongbin	Beijing Inst. of Tech.
17:30-17:50 <i>Optimal Control of a Broadcasting Server</i> , pp. 2634-2639.	WeC15.4
Gummadi, Ramakrishna	Univ. of Illinois
17:50-18:10 <i>Ergodic Control of Continuous-Time Markov Chains with Pathwise Constraints</i> , pp. 2640-2645.	WeC15.5
Prieto Rumeau, Tomas Hernandez-Lerma, Onesimo	Univ. Nacional de Educación a Distancia (UNED) CINVESTAV-IPN
18:10-18:30 <i>On the Linear-Exponential Filtering Problem for General Gaussian Processes</i> , pp. 2646-2651.	WeC15.6
Kleptsyna, Marina Le Breton, Alain Viot, Michel	Univ. du Maine Faculté des Sciences Univ. Joseph Fourier Univ. Joseph Fourier

WeC16	5F
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Decentralized Control and Consensus (Regular Session)	
Chair: Weiland, Siep Co-Chair: Kang, Wei	Eindhoven Univ. of Tech. Naval Postgraduate School
16:30-16:50 <i>Group Consensus in Multi-Agent Systems with Switching Topologies</i> , pp. 2652-2657.	WeC16.1
Yu, Junyan Wang, Long	Peking Univ. Peking Univ.
16:50-17:10 <i>Stability Results for String of Stable Subsystems with Applications to Decentralized Control of Large Vehicle Platoons</i> , pp. 2658-2663.	WeC16.2
Cai, Chaohong Hagen, Gregory	United Tech. Res. Center United Tech. Res. Center
17:10-17:30 <i>Decentralized Final Value Theorem for Discrete-Time LTI Systems with Application to Minimal-Time Distributed Consensus</i> , pp. 2664-2669.	WeC16.3
Yuan, Ye Stan, Guy-Bart Vincent Shi, Ling Goncalves, Jorge M.	Univ. of Cambridge Univ. of Cambridge HongKong Univ. of Science & Tech. Univ. of Cambridge
17:30-17:50 <i>Reaching L_p Consensus in a Network of Multiagents with Stochastically Switching Topologies</i> , pp. 2670-2675.	WeC16.4
Liu, Bo	Fudan Univ.

Lu, Wenlian	Fudan Univ.
Chen, Tianping	Fudan Univ.
17:50-18:10	WeC16.5
<i>Decentralized Adaptive Output-Feedback Stabilization of Large-Scale Time-Delay Nonlinear Systems with Unknown High-Frequency-Gain Signs</i> , pp. 2676-2680.	
Ye, Xudong	Zhejiang Univ.
18:10-18:30	WeC16.6
<i>Set-Valued Estimation for Mobile Sensor Networks</i> , pp. 2681-2686.	
Nelson, Thomas	Northwestern Univ.
Freeman, Randy	Northwestern Univ.

WeC17	5H
Estimation in Networked Systems (Regular Session)	

Chair: Martins, Nuno C.	Univ. of Maryland
Co-Chair: Johansson, Mikael	Royal Inst. of Tech.
16:30-16:50	WeC17.1
<i>Estimating the Fates of the Control Packets for Networked Control Systems with Loss of Control and Measurement Packets</i> , pp. 2687-2692.	
Blind, Rainer	Univ. of Stuttgart
Allgower, Frank	Univ. of Stuttgart
16:50-17:10	WeC17.2
<i>Minimum-Variance Filtering for Networked Control Systems with Multi-Sample Transmission Delays and Multiple Packet Dropouts Via Non-Probabilistic Approach</i> , pp. 2693-2698.	
Moayedi, Maryam	Nanyang Tech. Univ.
Foo, Yung Kuan	Organization
Soh, Yeng Chai	Nanyang Tech. Univ.
17:10-17:30	WeC17.3
<i>H_∞ Filtering of a Class of Multi-Rate Multi-Sensor Fusion Systems</i> , pp. 2699-2704.	
Liang, Yan	Northwestern Pol. Univ.
Chen, Tongwen	Univ. of Alberta
Pan, Quan	Northwestern Pol. Univ.
17:30-17:50	WeC17.4
<i>On Fusion of Information from Multiple Sensors in the Presence of Analog Erasure Links</i> , pp. 2705-2710.	
Gupta, Vijay	Univ. of Notre Dame
Martins, Nuno C.	Univ. of Maryland
17:50-18:10	WeC17.5
<i>Networked State Estimation Over a Gilbert-Elliot Type Channel</i> , pp. 2711-2716.	
Rabi, Maben	Royal Inst. of Tech. (KTH),
Johansson, Mikael	Royal Inst. of Tech.
Almstrom, Peter	Royal Inst. of Tech.
18:10-18:30	WeC17.6
<i>Decentralized Laplacian Eigenvalues Estimation for Networked Multi-Agent Systems</i> , pp. 2717-2722.	
Franceschelli, Mauro	Univ. of Cagliari
Gasparri, Andrea	Univ. of "Roma Tre"
Giua, Alessandro	Univ. di Cagliari
Seatzu, Carla	Univ. of Cagliari

WeC18	5I
Network Control and Synchronization (Regular Session)	

Chair: Jadbabaie, Ali	Univ. of Pennsylvania
Co-Chair: Basar, Tamer	Univ. of Illinois, Urbana-Champaign
16:30-16:50	WeC18.1
<i>The Standard Parts Problem and the Complexity of Control Communication</i> , pp. 2723-2728.	
Baillieul, John	Boston Univ.
Wong, Wing Shing	Chinese Univ. of Hong Kong
16:50-17:10	WeC18.2
<i>Optimal Control in Two-Hop Relay Routing</i> , pp. 2729-2735.	
Altman, Eitan	INRIA
Basar, Tamer	Univ. of Illinois, Urbana-Champaign
De Pellegrini, Francesco	CREATE-NET
17:10-17:30	WeC18.3
<i>A Distributed Newton Method for Network Optimization</i> , pp. 2736-2741.	
Jadbabaie, Ali	Univ. of Pennsylvania
Ozdoglar, Asuman	MIT
Zargham, Michael	Univ. of Pennsylvania
17:30-17:50	WeC18.4
<i>Eigenvalue Based Approach to Pinning Synchronization in General Coupled Networks</i> , pp. 2742-2747.	
Xiang, Linying	City Univ. of Hong Kong
Zhu, Jonathan	City Univ. of Hong Kong

17:50-18:10		WeC18.5
	<i>Controlled Synchronization of Delayed Weighted Complex Network with Different Kinds of Nodes</i> , pp. 2748-2753.	
	Liu, Zhongxin Chen, Zeng-Qiang	Nankai Univ. Nankai Univ.
18:10-18:30		WeC18.6
	<i>Synchronization Criteria for Lur'e Complex Dynamical Networks with Coupling Delays</i> , pp. 2754-2759.	
	Ding, Ke Han, Qing-Long	Central Queensland Univ. Central Queensland Univ.

WeTCTu		Yellow River
Networked Control Systems: Perspectives, Techniques, and Research Directions (Tutorial Session)		
	Chair: Baheti, Radhakisan Co-Chair: Gupta, Vijay	National Science Foundation Univ. of Notre Dame
16:30-16:50		WeTCTu.1
	<i>NSF Programs in Networked Control Systems (I)*</i> .	
	Baheti, Radhakisan	National Science Foundation
16:50-17:10		WeTCTu.2
	<i>Recent Developments in Algorithms for Tractable Computation of Decentralized Control Systems (I)*</i> .	
	Lall, Sanjay	Stanford Univ.
17:10-17:30		WeTCTu.3
	<i>Control of Impulsive Renewal Systems with Application to Direct Design in Networked Control (I)*</i> .	
	Hespanha, Joao P.	Univ. of California, Santa Barbara
17:30-17:50		WeTCTu.4
	<i>On the Robustness of Self-Triggered Control for Linear Systems (I)*</i> .	
	Tabuada, Paulo	Univ. of California at Los Angeles
17:50-18:10		WeTCTu.5
	<i>Network Stability Analysis and Distributed Control Synthesis with a Passivity Approach (I)*</i> .	
	Arcak, Murat	Univ. of California, Berkeley
18:10-18:30		WeTCTu.6
	<i>Encoding Algorithms for Control across Analog Erasure Links (I)*</i> .	
	Gupta, Vijay	Univ. of Notre Dame

WeCIn1		Mandarin Hall
Robust Control III (Interactive Session)		
17:30-18:10		WeCIn1.1
	<i>A Signal-Compensation Based Approach to Robust Output Regulation for a Class of MIMO Uncertain Systems</i> , pp. 2760-2764.	
	Zheng, Bo Zhong, Yisheng	Tsinghua Univ. Tsinghua Univ.
17:30-18:10		WeCIn1.2
	<i>Time-Convexity and Time-Gain-Scheduling in Finite-Horizon Robust H_{∞}-Control</i> , pp. 2765-2770.	
	Boyarski, Shmuel Shaked, Uri	IMI Tel-Aviv Univ.
17:30-18:10		WeCIn1.3
	<i>A Youla Parameter Approach to Robust Constrained Linear Model Predictive Control</i> , pp. 2771-2776.	
	Cheng, Qifeng Kouvaritakis, Basil Cannon, Mark Rossiter, J. Anthony	Univ. of Oxford Oxford Univ. Univ. of Oxford Univ. of Sheffield
17:30-18:10		WeCIn1.4
	<i>Robust H_{∞} Control Based on Parameters Weak Coupling LMI Equations Set for Uncertain Singular State Delay Systems</i> , pp. 2777-2782.	
	Li, Minghao Zhou, Wuneng Wang, Mingjun Xu, Yuhua Mou, Xiaozheng Fang, Jian'an	Donghua Univ. Donghua Univ. Donghua Univ. Donghua Univ. Donghua Univ. Donghua Univ.
17:30-18:10		WeCIn1.5
	<i>Composite Disturbance-Observer-Based Control and Discrete-Time Sliding Mode Control for a Class of MIMO Systems with Nonlinearity</i> , pp. 2783-2788.	
	Liu, Xiao-hua Wei, Xinjiang	Ludong Univ. Yantai Normal Univ.
17:30-18:10		WeCIn1.6
	<i>Stable Inversion-Based Robust Tracking Control in DC-DC Nonlinear Switched Converters</i> , pp. 2789-2794.	
	Olm, Josep M. Ros, Xavier Shtessel, Yuri B.	Univ. Pol. de Catalunya Univ. Pol. de Catalunya Univ. of Alabama at Huntsville
17:30-18:10		WeCIn1.7

<i>Modified Anti-Windup Compensators for Stable Plants: Dynamic Anti-Windup Case</i> , pp. 2795-2800. Sajjadi-Kia, Solmaz Jabbari, Faryar	Univ. of California at Irvine (UCI) Univ. of California at Irvine
17:30-18:10	WeCIn1.8
<i>Output Feedback Strategies for Systems with Impulsive and Fast Controls</i> , pp. 2801-2806. Daryin, Alexander Digailova, Irina Kurzanski, A.B.	Moscow State (Lomonosov) Univ. Moscow State (Lomonosov) Univ. Lomonosov Moscow State Univ.
17:30-18:10	WeCIn1.10
<i>Guaranteed Tracking Error Bounds for Matched Disturbance Nonlinear Systems</i> , pp. 2807-2812. Gruenbacher, Engelbert Del Re, Luigi	Univ. Linz Johannes Kepler Univ. Linz
17:30-18:10	WeCIn1.11
<i>Dynamic Output-Feedback Hinf Control for Polytopic Delta Operator Systems</i> , pp. 2813-2818. Zhang, Ying Zhang, Rui Duan, Guang-Ren	Harbin Inst. of Tech. Chinese Acad. of Sciences Harbin Inst. of Tech.
17:30-18:10	WeCIn1.12
<i>Estimation for Nonlinear Discrete-Time Systems with Uncertain Linearization and Noises Statistics</i> , pp. 2819-2824. Souto, Rodrigo Fontes Ishihara, João Yoshiyuki Borges, Geovany A.	Univ. of Brasilia Univ. of Brasília Univ. de Brasilia
17:30-18:10	WeCIn1.13
<i>A New Method for Robust Hinf Filtering of Uncertain Discrete-Time Systems</i> , pp. 2825-2829. Lu, Pingli Yang, Ying	Beijing Inst. of Tech. Peking Univ.
WeCIn2	Mandarin Hall
Control Applications II (Interactive Session)	
17:30-18:10	WeCIn2.1
<i>Particle Filters for Linear Regression and Fault Diagnosis: An Approach for On-Line Oilfield Drilling Processes Monitoring</i> , pp. 2830-2830. Ba, Amadou Pons, Rafel Hbaieb, Slim Nazih, Mechbal Vergé, Michel	ARTS Schlumberger Schlumberger ENSAM ENSAM
17:30-18:10	WeCIn2.2
<i>Global Finite-Time Stabilization of a PVTOL Aircraft by Output Feedback</i> , pp. 2831-2836. Frye, Michael Ding, Shihong Qian, Chunjiang Li, Shihua	Univ. of the Incarnate Word Southeast Univ. Univ. of Texas at San Antonio Southeast Univ.
17:30-18:10	WeCIn2.3
<i>Output-Feedback IDA Control Design Via Structural Properties: Application to Thyristor Controlled Series Capacitors</i> , pp. 2837-2842. Espinosa-Perez, Gerardo Maya-ortiz, Paul Dñria-Cerezo, Arnau Moreno, Jaime A.	Univ. Nacional Autonoma de Mexico Univ. Nacional Autonoma De Mexico Tech. Univ. of Catalonia (UPC) Univ. Nacional Autonoma
17:30-18:10	WeCIn2.4
<i>DC Motor Speed Control Improvement Via On-Line Disturbance Computation and Compensation</i> , pp. 2843-2848. Wu, Wei	Lexmark International
17:30-18:10	WeCIn2.5
<i>Nonlinear Control of a Buoyancy-Driven Airship</i> , pp. 2849-2854. Wu, Xiaotao Moog, Claude Marquez-Martinez, Luis Alejandro Hu, Yue-ming	Ec. centrale de nantes CNRS CICESE Res. Center South China Univ. of Tech.
17:30-18:10	WeCIn2.6
<i>Integrated Design of System Parameters, Control and Sensor/actuator Placement for Symmetric Mechanical Systems</i> , pp. 2855-2860. Hiramoto, Kazuhiko Mohammadpour, Javad Grigoriadis, Karolos M.	Akita Univ. Univ. of Houston Univ. of Houston
17:30-18:10	WeCIn2.7
<i>Boundary Detection of Variational Symmetry Breaking Using Port-Representation of Conservation Laws</i> , pp. 2861-2868. Nishida, Gou Sugiura, Motonobu Yamakita, Masaki Maschke, Bernhard Ikeura, Ryojun	RIKEN (The Inst. of Physical and Chemical Res. Tokyo Inst. of Tech. Tokyo Inst. of Tech. Univ. Claude Bernard of Lyon Mie Univ.

17:30-18:10		WeCIn2.8
<i>NN-Adaptive Output Feedback for Path Tracking Control of a Surface Ship at High Speed</i> , pp. 2869-2874.		
Zhang, Lijun		Tsinghua Univ.
Jia, He-ming		Harbin Engineering Univ.
Qi, Xue		Harbin Engineering Univ.

WeCIn3	Mandarin Hall
Stochastic Systems I (Interactive Session)	

17:30-18:10		WeCIn3.1
<i>Linear Systems with Chance Constraints: Constraint-Admissible Set and Applications in Predictive Control</i> , pp. 2875-2880.		
Wang, Chen		National Univ. of Singapore
Ong, Chong-Jin		National Univ. of Singapore
Sim, Melvyn		National Univ. of Singapore
17:30-18:10		WeCIn3.2
<i>A Constant-Factor Approximately Optimal Solution to the Witsenhausen Counterexample</i> , pp. 2881-2886.		
Park, Se Yong		Univ. of California at Berkeley
Grover, Pulkit		UC Berkeley
Sahai, Anant		UC Berkeley
17:30-18:10		WeCIn3.3
<i>Stochastic H-Infinity Almost Disturbance Decoupling for a Class of Stochastic Nonlinear Systems</i> , pp. 2887-2892.		
Wang, Xinghu		Univ. of Science and Tech. of China
Ji, Haibo		Univ. of Science and Tech. of China
17:30-18:10		WeCIn3.5
<i>H_infinity Exponential Filtering for Uncertain Markovian Jump Stochastic Systems with Mode-Dependent Time Delays and Nonlinearities</i> , pp. 2893-2898.		
Yan, Huaicheng		The Chinese Univ. of Hong Kong
Meng, Max, Qinghu		The Chinese Univ. of Hong Kong
Zhang, Hao		Tongji Univ.
17:30-18:10		WeCIn3.6
<i>Maximum Principle for Stochastic Optimal Control Problem of Forward-Backward System with Delay</i> , pp. 2899-2904.		
Chen, Li		Shandong Univ.
Wu, Zhen		Shandong Univ.
17:30-18:10		WeCIn3.8
<i>Multitarget Tracking Via Restless Bandit Marginal Productivity Indices and Kalman Filter in Discrete Time</i> , pp. 2905-2910.		
Nino-Mora, Jose		Carlos III Univ. of Madrid
Villar, Sofia		Carlos III Univ. of Madrid
17:30-18:10		WeCIn3.9
<i>Stochastic Intervention Strategy Applied to a Level Control with a Trade-Off between Risky Operation and Actuator Variations</i> , pp. 2911-2916.		
Carvalho Pinheiro, Nathalie		Univ. of Campinas
Do Val, Joao B.R.		UNICAMP - FEEC
Santos Mendes, Rafael		UNICAMP
17:30-18:10		WeCIn3.11
<i>Guaranteed Cost Control for Uncertain Stochastic Systems with Multiple Decision Makers Via Static Output Feedback</i> , pp. 2917-2922.		
Mukaidani, Hiroaki		Hiroshima Univ.
Xu, Hua		Univ. of Tsukuba
17:30-18:10		WeCIn3.12
<i>Mean-Square Exponential Stability of Stochastic Markovian Jump Systems with Mode-Dependent Time-Varying Delays</i> , pp. 2923-2928.		
Ma, Li		Southeast Univ.
Da, Fei-Peng		Southeast Univ.
Zhang, Kan_Jian		Southeast Univ.
17:30-18:10		WeCIn3.13
<i>Stability of Markovian Jump Bilinear Systems with Delayed Saturating Actuators</i> , pp. 2929-2934.		
Kang, Yu		Univ. of Science and Tech. of China
Zhao, Ping		Univ. of Jinan
Ling, Qiang		Univ. of Science and Tech. of China
17:30-18:10		WeCIn3.14
<i>Dealing with Stochastic Reachability</i> , pp. 2935-2940.		
Bujorianu, Manuela		Univ. of Manchester
17:30-18:10		WeCIn3.15
<i>Nonparametric Density Estimation of Bubble Size Distribution for Monitoring Mineral Flotation Process</i> , pp. 2941-2945.		
Yang, Chunhua		Central South Univ.
Xu, Canhui		Central South Univ.
Gui, Weihua		Central South Univ.
Du, Jianjiang		Central South Univ.
17:30-18:10		WeCIn3.16
<i>Arbitrarily Modulated Markov Decision Processes</i> , pp. 2946-2953.		
Yu, Jia Yuan		McGill Univ.

Mannor, Shie

McGill Univ.

WeCIn4 Mandarin Hall
Autonomous Robots (Interactive Session)

17:30-18:10 WeCIn4.1

Robust Entrainment to Natural Oscillations of Asymmetric Systems Arising from Animal Locomotion, pp. 2954-2959.

Chen, Zhiyong The Univ. of Newcastle
Iwasaki, Tetsuya UCLA

17:30-18:10 WeCIn4.2

Modeling and Control for a Biped Robot on Uneven Surfaces, pp. 2960-2965.

Li, Jian Shanghai Jiao Tong Univ.
Chen, Weidong Shanghai Jiao Tong Univ.

17:30-18:10 WeCIn4.3

Hybrid Position/Force Sliding Mode Control of a Class of Robotic Manipulators, pp. 2966-2971.

Bassi, Ezio Univ. of Pavia
Benzi, Francesco Univ. of Pavia
Capisani, Luca Univ. of Pavia, ITALY
Cuppone, Davide Univ. of Pavia
Ferrara, Antonella Univ. of Pavia

17:30-18:10 WeCIn4.4

Attitude Tracking of Rigid Bodies on the Special Orthogonal Group with Bounded Partial State Feedback, pp. 2972-2977.

Bertrand, Sylvain ONERA
Hamel, Tarek Univ. de Nice Sophia Antipolis
Piet-Lahanier, Helene ONERA
Mahony, Robert Australian National Univ.

17:30-18:10 WeCIn4.5

Experimental Demonstration of an Online Trajectory Optimization Scheme Using Approximate Spatial Value Functions, pp. 2978-2983.

Dadkhah, Navid Univ. of Minnesota
Korukanti, Venkateshwar Rao Univ. of Minnesota, Twin Cities
Kong, Zhaodan Univ. of Minnesota
Mettler, Bernard Univ. of Minnesota

17:30-18:10 WeCIn4.6

Mobile Robot Based Odor Source Localization Via Particle Filter, pp. 2984-2989.

Li, Ji-Gong Tianjin Univ.
Meng, Qinghao Tianjin Univ.
Li, Fei Tianjin Univ.
Zeng, Ming Tianjin Univ.
Popescu, Dorin Univ. of Craiova

WeCIn5 Mandarin Hall
Formation and Cooperative Control (Interactive Session)

17:30-18:10 WeCIn5.1

Finite-Time Settling Real-Time Control for Multi-Robot Formation, pp. 2990-2995.

Zhang, Junjie Texas A&M Univ.
Jayasuriya, Suhada National Science Foundation

17:30-18:10 WeCIn5.2

Experimental Verification of Formation Control with Distributed Cameras, pp. 2996-3001.

Bai, He Rensselaer Pol. Inst.
Downum, Karen RPI
Wason, John Rensselaer Pol. Inst.
Wen, John T. Rensselaer Pol. Inst.

17:30-18:10 WeCIn5.3

Formation Shape Control: Global Asymptotic Stability of a Four-Agent Formation, pp. 3002-3007.

Summers, Tyler Univ. of Texas at Austin
Yu, CHANGBIN (Brad) The Australian National Univ.
Anderson, Brian D.O. Australian National Univ.
Dasgupta, Soura Univ. of Iowa

17:30-18:10 WeCIn5.4

ESMF Based Multiple UAVs Active Cooperative Observation Method in Relative Velocity Coordinates, pp. 3008-3013.

Gu, Feng Shenyang Inst. of Automation, Chinese Acad. of Sciences
He, Yuqing Shenyang Inst. of Automation, CAS
Han, Jianda Shenyang Inst. of Automation
Wang, Yuechao Shenyang Inst. of Automation, Chinese Acad. of Sciences

17:30-18:10 WeCIn5.5

Containment Control with Multiple Stationary or Dynamic Leaders under a Directed Interaction Graph, pp. 3014-3019.

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

17:30-18:10 WeCIn5.6

Optimal Mistuning for Improved Stability of Vehicular Platoons, pp. 3020-3025.

Barooah, Prabir Mehta, Prashant G.	Univ. of Florida Univ. of Illinois, Urbana-Champaign
17:30-18:10 <i>Distributed Randomized PageRank Computation Based on Web Aggregation</i> , pp. 3026-3031.	WeCIn5.7
Ishii, Hideaki Tempo, Roberto Bai, Er-Wei Dabbene, Fabrizio	Tokyo Inst. of Tech. Pol. di Torino Univ. of Iowa IEIIT-CNR, Pol. di Torino
17:30-18:10 <i>A Hybrid Control Approach to Multi-Robot Coordinated Path Following</i> , pp. 3032-3037.	WeCIn5.8
Lan, Ying Yan, Gangfeng Lin, Zhiyun	Zhejiang Univ. Zhejiang Univ. Zhejiang Univ.
17:30-18:10 <i>Feasibility of a Distributed Flight Array</i> , pp. 3038-3044.	WeCIn5.9
Oung, Raymond Ramezani, Alireza D'Andrea, Raffaello	ETH Zurich Swiss Federal Inst. of Tech. (ETH Zürich) ETH
17:30-18:10 <i>Pseudo-Rigid Formation Design with Curvature Limitations</i> , pp. 3045-3050.	WeCIn5.10
Liu, Wen-Kai Wang, Li-Sheng	National Taiwan Univ. National Taiwan Univ.
17:30-18:10 <i>Pattern Preserving Path Following of Unicycle Teams with Communication Delays</i> , pp. 3051-3056.	WeCIn5.11
Li, Qin Jiang, Zhong-Ping	Pol. Inst. of New York Univ. Pol. Inst. NYU
17:30-18:10 <i>Stiffness Matrix and Quantitative Measure of Formation Rigidity</i> , pp. 3057-3062.	WeCIn5.12
Zhu, Guangwei Hu, Jianghai	Purdue Univ. Purdue Univ.
17:30-18:10 <i>Finite-Time Rendezvous Algorithms for Mobile Autonomous Agents</i> , pp. 3063-3068.	WeCIn5.13
Hui, Qing	Texas Tech. Univ.
17:30-18:10 <i>Multi-UAV Path Planning in Obstacle Rich Environments Using Rapidly-Exploring Random Trees</i> , pp. 3069-3074.	WeCIn5.14
Kothari, Mangal Postlethwaite, Ian Gu, Dawei	Univ. of Leicester, UK Univ. of Leicester Univ. of Leicester
17:30-18:10 <i>Formation Control Via Distributed Optimization of Alignment Error</i> , pp. 3075-3080.	WeCIn5.15
Moore, Brandon Canudas de Wit, Carlos	GIPSA-Lab. CNRS, GIPSA-Lab.
17:30-18:10 <i>Energy and Time Efficient Formation Reconfiguration Strategies</i> , pp. 3081-3086.	WeCIn5.16
Ajorlou, Amir Moezzi, Kaveh Aghdam, Amir G. Tafazoli, Siamak	Concordia Univ. Concordia Univ. Concordia Univ. Canadian Space Agency

WeCIn6

Mandarin Hall

Discrete Event and Intelligent Systems (Interactive Session)

17:30-18:10 <i>H Infinity Control of T-S Fuzzy Systems Using Piecewise Lyapunov Function Based Switching Fuzzy Controller</i> , pp. 3087-3092.	WeCIn6.1
Chen, Ying-Jen Ohtake, Hiroshi Tanaka, Kazuo Wang, Wen-june Wang, Hua O.	National Central Univ. Univ. of Electro-communications Univ. of Electro-Communications National Central Univ. Boston Univ.
17:30-18:10 <i>H_infty Control for T-S Fuzzy Neutral Systems with Time-Varying Delays and Actuator Saturation</i> , pp. 3093-3098.	WeCIn6.2
Liu, Zhenwei Wang, Zhiliang Zhang, Huaguang Luo, Yanhong	Northeastern Univ. Northeastern Univ. Northeastern Univ. Northeastern Univ.
17:30-18:10 <i>Supervisor Localization for Large-Scale Discrete-Event Systems</i> , pp. 3099-3105.	WeCIn6.3
Cai, Kai Wonham, W. Murray	Univ. of Toronto Univ. of Toronto

17:30-18:10		WeCIn6.4
<i>Fuzzy Controller Synthesis for a Dc-Dc Converter</i> , pp. 3106-3111.	Guesmi, Kamel Hamzaoui, Abdelaziz Zaytoon, Janan	CReSTIC Professor Univ. of Reims
17:30-18:10		WeCIn6.5
<i>Kernel-Based Target Tracking with Multiple Features Fusion</i> , pp. 3112-3117.	Qiu, Xuena Liu, Shirong Liu, Fei	East China Univ. of Science and Tech. Hangzhou Dianzi Univ. Hangzhou Dianzi Univ.
17:30-18:10		WeCIn6.6
<i>Structural Analysis Based Stroke Segmentation for Chinese Characters</i> , pp. 3118-3123.	Lam, Josh H.M. Yam, Yeung	The Chinese Univ. of Hong Kong The Chinese Univ. of Hong Kong
17:30-18:10		WeCIn6.7
<i>The Intelligent Setting Control of the Mill Load in Pulverizing System for an Alumina Sintering Process</i> , pp. 3124-3129.	Zhang, Liyan Yue, Heng Chai, Tianyou	Northeastern Univ. Northeastern Univ. Northeastern Univ.
17:30-18:10		WeCIn6.8
<i>Approach of Moving Objects Detection in Active Video Surveillance</i> , pp. 3130-3136.	Chi, Jian-nan Zhang, Chuang Zhang, Han Liu, Yang Yan, Yan-tao	Univ. of Science and Tech. Beijing Univ. of Science and Tech. Beijing Univ. of Science and Tech. Beijing Univ. of Science and Tech. Beijing Univ. of Science and Tech. Beijing
Th1SPLA		Auditorium
What Are Moment Problems and Why Are They Useful in Systems and Control? (Semi-Plenary Session)		
08:00-08:50		Th1SPLA.1
<i>What Are Moment Problems and Why Are They Useful in Systems and Control?*</i>	Lindquist, Anders G.	Royal Inst. of Tech.
Th1SPLB		Auditorium
Information Aggregation in Complex Dynamic Networks (Semi-Plenary Session)		
08:00-08:50		Th1SPLB.1
<i>Information Aggregation in Complex Dynamic Networks*</i>	Jadbabaie, Ali	Univ. of Pennsylvania
Th2SPLA		Grand Ballroom
Target Choice, Control Energy, and Communication Complexity: Facets of an Information-Based Distributed Control System (Semi-Plenary Session)		
09:00-09:50		Th2SPLA.1
<i>Target Choice, Control Energy, and Communication Complexity: Facets of an Information-Based Distributed Control System*</i>	Wong, Wing Shing	Chinese Univ. of Hong Kong
Th2SPLB		Grand Ballroom
Differential Geometric Approach in Control and Modeling of Vibrational Mechanics (Semi-Plenary Session)		
09:00-09:50		Th2SPLB.1
<i>Differential Geometric Approach in Control and Modeling of Vibrational Mechanics*</i>	Yao, Peng-Fei	Chinese Acad. of Sciences
ThA01		3D
Nonlinear Systems III (Regular Session)		
Chair: Hauser, John Co-Chair: Lan, Weiyao		Univ. of Colorado at Boulder Xiamen Univ.
10:10-10:30		ThA01.1
<i>Smooth Time-Varying Uniform Asymptotic Stabilization of Underactuated Surface Vessels</i> , pp. 3137-3141.	Ma, Bao-Li Huo, Wei	Beijing Univ. of Aeronautics and Astronautics Beijing Univ. of Aero. & Astro.
10:30-10:50		ThA01.2
<i>On the Periodically Driven Inverted Pendulum</i> , pp. 3142-3148.	Bailey, Robert Hauser, John	Univ. of Colorado - Boulder Univ. of Colorado at Boulder
10:50-11:10		ThA01.3
<i>Simple Energy Based Controllers with Nonlinear Coupled-Dissipation Terms for Overhead Crane Systems</i> , pp. 3149-3154.	Konstantopoulos, George Alexandridis, Antonis	Univ. of Patras Univ. of Patras

11:10-11:30		ThA01.4
<i>A Generalized Chain Rule and a Bound on the Continuity of Solutions and Converse Lyapunov Functions</i> , pp. 3155-3161.		
Peet, Matthew M.		Illinois Inst. of Tech.
11:30-11:50		ThA01.5
<i>An Approximate Parametrization of the Ergodic Partition Using Time Averaged Observables</i> , pp. 3162-3168.		
Budisic, Marko		Univ. of California, Santa Barbara
Mezic, Igor		Univ. of California, Santa Barbara
11:50-12:10		ThA01.6
<i>Optimal Nonlinear Gain Tuning of Composite Nonlinear Feedback Controller and Its Application to a Hard Disk Drive Servo System</i> , pp. 3169-3174.		
Lan, Weiyao		Xiamen Univ.
Thum, Chin Kwan		National Univ. of Singapore
Chen, Ben M.		National Univ. of Singapore

ThA02		3E
Control of Hybrid Systems (Regular Session)		
Chair: Haddad, Abraham H.		Northwestern Univ.
Co-Chair: Anta, Adolfo		Univ. of California at Los Angeles
10:10-10:30		ThA02.1
<i>Continuous Control of Hybrid Automata with Imperfect Mode Information Assuming Separation between State Estimation and Control</i> , pp. 3175-3181.		
Verma, Rajeev		Univ. of Michigan, Ann Arbor
Del Vecchio, Domitilla		Univ. of Michigan
10:30-10:50		ThA02.2
<i>Temporal Logic Control of Discrete-Time Piecewise Affine Systems</i> , pp. 3182-3187.		
Yordanov, Boyan		Boston Univ.
Belta, Calin		Boston Univ.
10:50-11:10		ThA02.3
<i>Hybrid Minimal Control Synthesis Identification of Continuous Piecewise Linear Systems</i> , pp. 3188-3193.		
Di Bernardo, Mario		Univ. of Naples Federico II
Montanaro, Umberto		Univ. of Naples Federico II
Santini, Stefania		Univ. di Napoli Federico II
11:10-11:30		ThA02.4
<i>Isochronous Manifolds in Self-Triggered Control</i> , pp. 3194-3199.		
Anta, Adolfo		Univ. of California at Los Angeles
Tabuada, Paulo		Univ. of California at Los Angeles
11:30-11:50		ThA02.5
<i>2D Bipedal Walking with Knees and Feet: A Hybrid Control Approach</i> , pp. 3200-3207.		
Sinnet, Ryan		Texas A&M Univ.
Ames, Aaron		Texas A&M
11:50-12:10		ThA02.6
<i>3D Bipedal Walking with Knees and Feet: A Hybrid Geometric Approach</i> , pp. 3208-3213.		
Sinnet, Ryan		Texas A&M Univ.
Ames, Aaron		Texas A&M Univ.

ThA03		3C
Stability and Stabilization of Linear Systems (Regular Session)		
Chair: Rogers, Eric		Univ. of Southampton
Co-Chair: Eldem, Vasfi		Gebze Inst. of Tech.
10:10-10:30		ThA03.1
<i>Necessary and Sufficient Conditions for Finite-Time Boundedness of Linear Continuous-Time Systems</i> , pp. 3214-3219.		
Ichihara, Hiroyuki		Kyushu Inst. of Tech.
Katayama, Hitoshi		Shizuoka Univ.
10:30-10:50		ThA03.2
<i>On the Stability of Bimodal Systems in R^3</i> , pp. 3220-3225.		
Eldem, Vasfi		Gebze Inst. of Tech.
Sahan, Gökhan		Gebze Inst. of Tech.
10:50-11:10		ThA03.3
<i>Necessary and Sufficient Conditions for Finite-Time Boundedness of Linear Discrete-Time Systems</i> , pp. 3226-3231.		
Ichihara, Hiroyuki		Kyushu Inst. of Tech.
Katayama, Hitoshi		Shizuoka Univ.
11:10-11:30		ThA03.4
<i>Stability and Stabilization of a Class of Ill-Conditioned Second Order Differential Linear Repetitive Processes</i> , pp. 3232-3237.		
Dabkowski, Pawel Grzegorz		Nicolaus Copernicus Univ.
Galkowski, Krzysztof		Univ. of Zielona Gora
Rogers, Eric		Univ. of Southampton
11:30-11:50		ThA03.5
<i>Stability Criterion and Stabilization of Linear Time-Varying Systems</i> , pp. 3238-3243.		

Tan, Feng	Harbin Inst. of Tech.
Duan, Guang-Ren	Harbin Inst. of Tech.
11:50-12:10	ThA03.6
<i>Simultaneous H_2 Stabilization Via Fixed-Order Controllers: Equivalence and Computation</i> , pp. 3244-3249.	
Shu, Zhan	National Univ. of Ireland, Maynooth
Lam, James	The Univ. of Hong Kong
Li, Ping	The Univ. of HongKong

ThA04 3A

Model Reduction (Regular Session)

Chair: Sreeram, Victor	Univ. of Western Australia
Co-Chair: West, Matthew	Univ. of Illinois, Urbana-Champaign
10:10-10:30	ThA04.1
<i>Improved Results on Frequency Weighted Balanced Truncation</i> , pp. 3250-3255.	
Sreeram, Victor	Univ. of Western Australia
Sahlan, Shafishuhaza	Univ. of Western Australia
10:30-10:50	ThA04.2
<i>Network Structure Preserving Model Reduction with Weak a Priori Structural Information</i> , pp. 3256-3263.	
Yeung, Enoch	Brigham Young Univ.
Goncalves, Jorge M.	Univ. of Cambridge
Sandberg, Henrik	Royal Inst. of Tech. (KTH)
Warnick, Sean	Brigham Young Univ.
10:50-11:10	ThA04.3
<i>An Error Bound for Model Reduction of Lur'e-Type Systems</i> , pp. 3264-3269.	
Besselink, Bart	Eindhoven Univ. of Tech.
Van De Wouw, Nathan	Eindhoven Univ. of Tech.
Nijmeijer, Hendrik	Eindhoven Univ. of Tech.
11:10-11:30	ThA04.4
<i>Approximate Controllability and Spillover Analysis of a Class of Distributed Parameter Systems</i> , pp. 3270-3275.	
Zuyev, Alexander	National Acad. of Sciences of Ukraine
11:30-11:50	ThA04.5
<i>Comparison of Reduced Order Lithium-Ion Battery Models for Control Applications</i> , pp. 3276-3281.	
Speltino, Carmelo	Univ. del Sannio BN Italy
Di Domenico, Domenico	Univ. degli Studi del Sannio
Fiengo, Giovanni	Univ. degli Studi del Sannio
Stefanopoulou, Anna G.	Univ. of Michigan
11:50-12:10	ThA04.6
<i>Model Reduction, Optimal Prediction, and the Mori-Zwanzig Representation of Markov Chains</i> , pp. 3282-3287.	
Beck, Carolyn L.	Univ. of Illinois, Urbana-Champaign
Lall, Sanjay	Stanford Univ.
Liang, Tzuchen	Stanford Univ.
West, Matthew	Univ. of Illinois, Urbana-Champaign

ThA05 3J

Optimization of Intelligent Systems (Regular Session)

Chair: Freeman, Christopher T.	Univ. of Southampton
Co-Chair: Song, Dong-Ping	Univ. of Plymouth
10:10-10:30	ThA05.1
<i>Iterative Learning Control for Multiple Point-To-Point Tracking</i> , pp. 3288-3293.	
Freeman, Christopher T.	Univ. of Southampton
Cai, Zhonglun	Univ. of Southampton
Lewin, Paul L.	Univ. of Southampton
Rogers, Eric	Univ. of Southampton
10:30-10:50	ThA05.2
<i>The Hybrid Intelligent Optimization Control for the Fused Magnesia Production</i> , pp. 3294-3299.	
Yongjian, Wu	Information Engineering Coll. of Northeastern Univ.
Zhiwei, Wu	Northeastern Univ.
Bin, Dong	Northeastern Univ.
Li, Zhang	Northeastern Univ.
Chai, Tianyou	Northeastern Univ.
10:50-11:10	ThA05.3
<i>Impact of Dynamic Information on Empty Container Repositioning in a Seaport with Uncertainties</i> , pp. 3300-3305.	
Song, Dong-Ping	Univ. of Plymouth
Zhang, Qing	Univ. of Georgia
11:10-11:30	ThA05.4
<i>Equilibrium Species Counts and Migration Model Tradeoffs for Biogeography-Based Optimization</i> , pp. 3306-3310.	
Ma, Haiping	Shaoxing Univ.
Ni, Suhong	Hebei Univ. of Science and Tech.
Sun, Man	Northeastern Univ. at Qinhuangdao

11:30-11:50 ThA05.5
Fault Tolerant Control Allocation for a Thruster-Controlled Floating Platform Using Parametric Programming, pp. 3311-3317.
 Spjøtvold, Jørgen Norwegian Univ. of Science & Tech.
 Johansen, Tor Arne Norwegian Univ. of Science & Tech.

11:50-12:10 ThA05.6
Isolation Niche Particle Swarm Optimization Applied to Traffic Lights Controlling, pp. 3318-3322.
 Peng, Li Jiangnan Univ.
 Wang, Mao-hai Jiangnan Univ.
 Du, Jia-Ping Jiangnan Univ.
 Luo, Gang ;W;:f;

ThA06 3G
Control of Mechanical Systems (Invited Session)

Chair: Leok, Melvin Purdue Univ.
 Co-Chair: Chang, Dong Eui Univ. of Waterloo
 Organizer: Leok, Melvin Purdue Univ.
 Organizer: Chang, Dong Eui Univ. of Waterloo

10:10-10:30 ThA06.1
Time-Varying Path Following Control for Port-Hamiltonian Systems (I), pp. 3323-3328.
 Taniguchi, Mitsuru Nagoya Univ.
 Fujimoto, Kenji Nagoya Univ.

10:30-10:50 ThA06.2
The Method of Controlled Lagrangians: Energy Plus Force Shaping (I), pp. 3329-3334.
 Chang, Dong Eui Univ. of Waterloo

10:50-11:10 ThA06.3
Quasivelocities and Stabilization of Relative Equilibria of Underactuated Nonholonomic Systems (I), pp. 3335-3340.
 Bloch, Anthony M. Univ. of Michigan
 Marsden, Jerrold E. California Inst. of Tech.
 Zenkov, Dmitry North Carolina State Univ.

11:10-11:30 ThA06.4
Output Synchronization of Systems in Chained Form (I), pp. 3341-3346.
 Listmann, Kim Daniel Tech. Univ. Darmstadt
 Woolsey, Craig Virginia Tech.

11:30-11:50 ThA06.5
Dynamics of a 3D Elastic String Pendulum (I), pp. 3347-3352.
 Lee, Taeyoung Florida Inst. of Tech.
 Leok, Melvin Univ. of California, San Diego
 McClamroch, N. Harris Univ. of Michigan

11:50-12:10 ThA06.6
Energy-Optimal Control of a Particle in a Dielectrophoretic System (I), pp. 3353-3358.
 Barve, Hrushikesh Arun I I T Bombay
 Banavar, Ravi N. Indian Inst. of Tech.

ThA07 5C
Filtering and Estimation II (Regular Session)

Chair: Akcay, Huseyin Anadolu Univ.
 Co-Chair: Carravetta, Francesco IASI-CNR

10:10-10:30 ThA07.1
Subspace-Based Rational Interpolation of Analytic Functions from Real or Imaginary Parts of Frequency-Response Data, pp. 3359-3363.
 Akcay, Huseyin Anadolu Univ.
 Turkey, Semiha anadolu Univ.

10:30-10:50 ThA07.2
Subspace Identification of Distributed, Decomposable Systems, pp. 3364-3369.
 Massioni, Paolo Delft Univ. of Tech.
 Verhaegen, Michel Delft Univ. of Tech.

10:50-11:10 ThA07.3
VARMAX-Based Closed-Loop Subspace Model Identification, pp. 3370-3375.
 Houtzager, Ivo Delft Univ. of Tech.
 van Wingerden, Jan-Willem Delft Univ. of Tech.
 Verhaegen, Michel Delft Univ. of Tech.

11:10-11:30 ThA07.4
Optimal Filtering for Uncertain Linear Stochastic Systems, pp. 3376-3381.
 Basin, Michael V. Autonomous Univ. of Nuevo Leon
 Loukianov, Alexander G. CINVESTAV IPN GDI
 Hernandez-Gonzalez, Miguel Centro de investigacion y estudios avanzados

11:30-11:50 ThA07.5
2D-Recursive Stochastic Realization of Discrete Gaussian Markov Fields: The Homogeneous Case on a Spheric Domain, pp. 3382-3387.
 Carravetta, Francesco IASI-CNR

11:50-12:10 ThA07.6
Average Optimal Stationary Policies: Convexity and Convergence Conditions in Linear Stochastic Control Systems, pp. 3388-3393.
 Vargas, Alessandro N. Univ. Tec. Federal do Parana, UTFPR
 Do Val, Joao B.R. UNICAMP - FEEC

ThA08 31
Distributed Parameter and Delay Systems I (Regular Session)

Chair: Polis, Michael P. Oakland Univ.
 Co-Chair: Li, Xiao-Dong Univ. Claude Bernard Lyon 1

10:10-10:30 ThA08.1
A Further Numerical Investigation on Luenberger Type Observers for Vibrating Systems, pp. 3394-3399.
 Li, Xiao-Dong Univ. Claude Bernard Lyon 1
 Xu, Chengzhong Univ. Claude Bernard - Lyon1

10:30-10:50 ThA08.2
On the Admissibility of Control Operators for Perturbed Semigroups and Application to Time-Delay Systems, pp. 3400-3405.
 Hadd, Said Texas A&M Univ. at Qatar, Engineering Building
 Boulite, Said Texas A&M at Qatar
 Nounou, Hazem Texas A&M Univ. at Qatar
 Nounou, Mohamed Texas A&M Univ. at Qatar

10:50-11:10 ThA08.3
Lyapunov-Based Boundary Control for 2 X 2 Hyperbolic Lotka-Volterra Systems, pp. 3406-3411.
 Pavel, Lacra Univ. of Toronto
 Chang, L Univ. of Toronto

11:10-11:30 ThA08.4
Boundary Estimation for a Diffusion-Reaction PDE Driven by an Unknown Periodic Input, pp. 3412-3416.
 Chauvin, Jonathan IFP

11:30-11:50 ThA08.5
Spectral Controllability for 2D and 3D Linear Schrödinger Equations, pp. 3417-3422.
 Beauchard, Karine Univ. Paris-Sud, France
 Chitour, Yacine Univ. Paris-Sud, CNRS, Supelec
 Kateb, Djailil Univ. de Compiègne
 Long, Ruixing Ec. Pol.

11:50-12:10 ThA08.6
Boundary Exact Controllability for the Semilinear Schrödinger Equation, pp. 3423-3429.
 Deng, Li Chinese Acad. of Sciences
 Yao, Peng-Fei Chinese Acad. of Sciences

ThA09 3H
Advanced Nonlinear Control Techniques for Unmanned Air Vehicles (Invited Session)

Chair: Silvestre, Carlos Inst. Superior Tecnico
 Co-Chair: Hamel, Tarek Univ. de Nice Sophia Antipolis
 Organizer: Silvestre, Carlos Inst. Superior Tecnico
 Organizer: Hamel, Tarek Univ. de Nice Sophia Antipolis

10:10-10:30 ThA09.1
Image-Based Visual Servo Control for Circular Trajectories for a Fixed-Wing Aircraft (I), pp. 3430-3435.
 Le Bras, Florent Delegation generale de l'armement
 Hamel, Tarek Univ. de Nice Sophia Antipolis
 Mahony, Robert Australian National Univ.

10:30-10:50 ThA09.2
Robust Takeoff and Landing for a Class of Aerial Robots (I), pp. 3436-3441.
 Naldi, Roberto Univ. di Bologna
 Marconi, Lorenzo Univ. di Bologna
 Gentili, Luca Univ. of Bologna

10:50-11:10 ThA09.3
Decentralized Cooperative Control for Multivehicle Formation without Velocity Measurement (I), pp. 3442-3447.
 Li, Chaoyong Univ. of Central Florida

11:10-11:30 ThA09.4
On the General Characteristics of 2D Optimal Obstacle-Field Guidance Solution (I), pp. 3448-3453.
 Kong, Zhaodan Univ. of Minnesota
 Mettler, Bernard Univ. of Minnesota

11:30-11:50 ThA09.5
Formation Control of VTOL-UAVs (I), pp. 3454-3459.
 Abdessameud, Abdelkader Univ. of Western Ontario
 Tayebi, Abdelhamid Lakehead Univ.

11:50-12:10 ThA09.6
Rotorcraft Path Following Control for Extended Flight Envelope Coverage (I), pp. 3460-3465.
 Cabecinhas, David Inst. Superior Tecnico
 Cunha, Rita Inst. Superior Técnico
 Silvestre, Carlos Inst. Superior Tecnico

ThA10	5D
Adaptive Control II (Regular Session)	
Chair: Dixon, Warren E.	Univ. of Florida
Co-Chair: Solo, Victor	Univ. of New South Wales
10:10-10:30	ThA10.1
<i>Adaptive Control Using Retrospective Cost Optimization with RLS-Based Estimation for Concurrent Markov-Parameter Updating</i> , pp. 3466-3471.	
Santillo, Mario	Univ. of Michigan
Holzel, Matthew	Univ. of Michigan
Hoagg, Jesse B.	Univ. of Michigan
Bernstein, Dennis S.	Univ. of Michigan
10:30-10:50	ThA10.2
<i>On the Boundedness Problem of Stochastic Adaptive Algorithms</i> , pp. 3472-3476.	
Solo, Victor	Univ. of New South Wales
10:50-11:10	ThA10.3
<i>Direct Time Injection in the Loop: A New Adaptive Control Point of View</i> , pp. 3477-3482.	
Tayebi, Abdelhamid	Lakehead Univ.
11:10-11:30	ThA10.4
<i>Global Adaptive Output Feedback MRAC</i> , pp. 3483-3488.	
Mackunis, William	Univ. of Florida
Wilcox, Zachary	Univ. of Florida
Kaiser, Kent	Univ. of Florida
Dixon, Warren E.	Univ. of Florida
11:30-11:50	ThA10.5
<i>The Convergence of Parameter Estimates Is Not Necessary for a General Self-Tuning Control System Stochastic Plant</i> , pp. 3489-3494.	
Zhang, Weicun	Univ. of Science and Tech. Beijing
11:50-12:10	ThA10.6
<i>Adaptive Output Feedback Control of Nonlinear SISO Systems Via Singular Perturbation Technique</i> , pp. 3495-3500.	
Yurkevich, Valery D.	Novosibirsk State Tech. Univ.
ThA11	5J
Modeling and Control of Physiological Systems (Regular Session)	
Chair: Johansson, Rolf	Lund Univ.
Co-Chair: Hara, Shinji	The Univ. of Tokyo
10:10-10:30	ThA11.1
<i>Glycemic Trend Prediction Using Empirical Model Identification</i> , pp. 3501-3506.	
Cescon, Marzia	Lund Univ.
Johansson, Rolf	Lund Univ.
10:30-10:50	ThA11.2
<i>Observer-Based Closed-Loop Control of Plasma Glycemia</i> , pp. 3507-3512.	
Palumbo, Pasquale	IASI-CNR
Pepe, Pierdomenico	Univ. of L' Aquila
Panunzi, Simona	Consiglio Nazionale delle Ricerche
De Gaetano, Andrea	CNR
10:50-11:10	ThA11.3
<i>A Bio-Plausible Design for Visual Attitude Stabilization</i> , pp. 3513-3520.	
Censi, Andrea	California Inst. of Tech.
Han, Shuo	California Inst. of Tech.
Fuller, Sawyer	Caltech
Murray, Richard M.	California Inst. of Tech.
11:10-11:30	ThA11.4
<i>Graphical and Analytic Criteria for the Existence of Protein Level Oscillations in Cyclic Gene Regulatory Networks</i> , pp. 3521-3526.	
Hori, Yutaka	The Univ. of Tokyo
Kim, Tae-Hyoung	Chung-Ang Univ.
Hara, Shinji	The Univ. of Tokyo
11:30-11:50	ThA11.5
<i>Observability Issues in Networked Clocks with Applications to Epilepsy</i> , pp. 3527-3532.	
O'Sullivan-Greene, Elma	The Univ. of Melbourne
Mareels, Iven	The Univ. of Melbourne
Kuhlmann, Levin	The Univ. of Melbourne
Burkitt, Anthony N.	The Univ. of Melbourne
11:50-12:10	ThA11.6
<i>Control of Infection Dynamics with Application to HIV/AIDS Model</i> , pp. 3533-3538.	
Chang, H.J.	Imperial Coll. London
Astolfi, Alessandro	Imperial Coll. & Univ. of Rome
Shim, Hyungbo	Seoul National Univ.

Integrated Vehicle Dynamics and Control I (Invited Session)

Chair: Lu, Jianbo	Ford Motor Company
Co-Chair: Lin, Zongli	Univ. of Virginia
Organizer: Lu, Jianbo	Ford Motor Company
Organizer: Lin, Zongli	Univ. of Virginia
Organizer: Lu, Xiao-Yun	Univ. of California at Berkeley
Organizer: Tsiotras, Panagiotis	Georgia Inst. of Tech.
10:10-10:30	ThA12.1
<i>Multi-Objective Coordinated Control for Advanced Adaptive Cruise Control System (I)</i> , pp. 3539-3544.	
Li, Shengbo	Tsinghua Univ.
Li, Keqiang	Tsinghua Univ.
Rajamani, Rajesh	Univ. of Minnesota
Wang, Jianqiang	State Key Lab. of Automotive Safety and Energy, Tsinghua Univ.
10:30-10:50	ThA12.2
<i>On Steady-State Cornering Equilibria for Wheeled Vehicles with Drift (I)</i> , pp. 3545-3550.	
Velenis, Efstathios	Brunel Univ.
Frazzoli, Emilio	Massachusetts Inst. of Tech.
Tsiotras, Panagiotis	Georgia Inst. of Tech.
10:50-11:10	ThA12.3
<i>Combined Performance and Stability Optimisation Via Central Transfer Case Active Control in Four-Wheeled Vehicles (I)</i> , pp. 3551-3556.	
Panzani, Giulio	Pol. di Milano
Corno, Matteo	Pol. di Milano
Tanelli, Mara	Pol. di Milano
Zappavigna, Annalisa	Pol. di Milano
Savaresi, Sergio M.	Pol. Di Milano
Fortina, Andrea	Fiat Auto S.p.A.
Campo, Sebastiano	Fiat Auto
11:10-11:30	ThA12.4
<i>Adaptive Integrated Vehicle Control Using Active Front Steering and Rear Torque Vectoring (I)</i> , pp. 3557-3562.	
Di Gennaro, Stefano	Univ. of L'Aquila
Di Benedetto, M. Domenica	Univ. of L'Aquila
Burgio, Gilberto	Ford Forschungszentrum Aachen
Borri, Alessandro	Univ. of L'Aquila
Bianchi, Domenico	Univ. of L'Aquila
11:30-11:50	ThA12.5
<i>System Optimization in the Control of Heavy Duty Vehicle Braking Sub-Systems (I)</i> , pp. 3563-3568.	
Fang, Haijun	MKS Inst.
Lu, Xiao-Yun	Univ. of California at Berkeley
Lu, Jianbo	Ford Motor Company
Lin, Zongli	Univ. of Virginia
11:50-12:10	ThA12.6
<i>Multi-Loop Interactive Control Motivated by Driver-In-The-Loop Vehicle Dynamics Controls: The Framework (I)</i> , pp. 3569-3574.	
Lu, Jianbo	Ford Motor Company
Filev, Dimitre P.	Ford Motor Company

ThA13

5A

Learning and Control I (Invited Session)

Chair: Meyn, Sean	Univ. of Illinois
Co-Chair: Mehta, Prashant G.	Univ. of Illinois, Urbana-Champaign
Organizer: Meyn, Sean	Univ. of Illinois
Organizer: Mannor, Shie	McGill Univ.
Organizer: Mehta, Prashant G.	Univ. of Illinois, Urbana-Champaign
10:10-10:30	ThA13.1
<i>Approximate Dynamic Programming Using Fluid and Diffusion Approximations with Applications to Power Management (I)</i> , pp. 3575-3580.	
Chen, Wei	Univ. of Illinois, Urbana-Champaign
Huang, Dayu	Univ. of Illinois, Urbana-Champaign
Kulkarni, Ankur	Univ. of Illinois, Urbana-Champaign
Unnikrishnan, Jayakrishnan	Univ. of Illinois, Urbana-Champaign
Zhu, Quanyan	Univ. of Illinois, Urbana-Champaign
Mehta, Prashant G.	Univ. of Illinois, Urbana-Champaign
Meyn, Sean	Univ. of Illinois
Wierman, Adam	California Inst. of Tech.
10:30-10:50	ThA13.2
<i>Asynchronous Gossip Algorithms for Stochastic Optimization (I)</i> , pp. 3581-3586.	
Srinivasan, Sundhar Ram	Univ. of Illinois, Urbana-Champaign
Nedich, Angelia	Univ. of Illinois, Urbana-Champaign
Veeravalli, Venugopal V.	Univ. of Illinois, Urbana-Champaign
10:50-11:10	ThA13.3
<i>Asymptotic Properties of Markov Decision Processes (I)</i> , pp. 3587-3591.	
Brockett, Roger	Harvard Univ.

11:10-11:30		ThA13.4
	<i>On the Myopic Policy for a Class of Restless Bandit Problems with Applications in Dynamic Multichannel Access</i> , pp. 3592-3597.	
	Liu, Keqin	Univ. of California at Davis
	Zhao, Qing	Univ. of California at Davis
11:30-11:50		ThA13.5
	<i>Q-Learning and Pontryagin's Minimum Principle (I)</i> , pp. 3598-3605.	
	Mehta, Prashant G.	Univ. of Illinois, Urbana-Champaign
	Meyn, Sean	Univ. of Illinois
11:50-12:10		ThA13.6
	<i>Parametric Regret in Uncertain Markov Decision Processes (I)</i> , pp. 3606-3613.	
	Xu, Huan	The Univ. of Texas at Austin
	Mannor, Shie	McGill Univ.

ThA14		5B
Identification of Block Structured Models (Regular Session)		

	Chair: Fang, Haitao	Chinese Acad. of Sciences
	Co-Chair: Wang, Jiandong	Peking Univ.
10:10-10:30		ThA14.1
	<i>Refined Instrumental Variable Methods for Identifying Hammerstein Models Operating in Closed Loop</i> , pp. 3614-3619.	
	Laurain, Vincent	Nancy-Univ.
	Gilson, Marion	Nancy-Univ.
	Garnier, Hugues	Nancy-Univ.
10:30-10:50		ThA14.2
	<i>Revisiting the Two-Stage Algorithm for Hammerstein System Identification</i> , pp. 3620-3625.	
	Wang, Jiandong	Peking Univ.
	Zhang, Qinghua	INRIA
	Ljung, Lennart	Linkoping Univ.
10:50-11:10		ThA14.3
	<i>Recursive Identification of MIMO Wiener Systems with General Inputs</i> , pp. 3626-3631.	
	Jiang, Yueping	Nanjing Univ. of Posts and Telecommunications
	Fang, Haitao	Chinese Acad. of Sciences
11:10-11:30		ThA14.4
	<i>Identification Methods for Wiener Nonlinear Systems Based on the Least Squares and Gradient Iterations</i> , pp. 3632-3636.	
	Ding, Feng	Jiangnan Univ.
	Wang, Dongqing	Qingdao Univ.
	Chu, Yanyun	Qingdao Univ.
11:30-11:50		ThA14.5
	<i>Closed-Loop Subspace Identification of Hammerstein-Wiener Models</i> , pp. 3637-3642.	
	van Wingerden, Jan-Willem	Delft Univ. of Tech.
	Verhaegen, Michel	Delft Univ. of Tech.
11:50-12:10		ThA14.6
	<i>Set-Membership Identification of Block-Structured Nonlinear Feedback Systems</i> , pp. 3643-3649.	
	Cerone, Vito	Pol. di Torino
	Piga, Dario	Pol. di Torino
	Regruto, Diego	Pol. Di Torino

ThA15		3B
Finance and Stochastics (Regular Session)		

	Chair: Costa, Oswaldo Luiz V.	Univ. of Sao Paulo
	Co-Chair: Vellekoop, Michel H.	Univ. Twente
10:10-10:30		ThA15.1
	<i>An Optimal Investment Problem with Randomly Terminating Income</i> , pp. 3650-3655.	
	Vellekoop, Michel H.	Univ. Twente
	Davis, Mark	Imperial Coll. of Science, Tech. and Medicine
10:30-10:50		ThA15.2
	<i>Sampled Control for Mean-Variance Hedging in a Jump Diffusion Financial Market</i> , pp. 3656-3661.	
	Costa, Oswaldo Luiz V.	Univ. of Sao Paulo
	Maiali, Andre Cury	USP - Univ. de Sao Paulo
	Pinto, Afonso	Fundação Getulio Vargas
10:50-11:10		ThA15.3
	<i>Pricing and Optimal Conversion Strategy of Convertible Bonds</i> , pp. 3662-3667.	
	Bing, Yang	Shandong Univ. at Weihai
	Xiao, Hua	Shandong Univ. at Weihai
11:10-11:30		ThA15.4
	<i>One Kind of Corporate Optimal Investment Problem: Inflation Case</i> , pp. 3668-3672.	
	Huang, Zongyuan	Shandong Univ.
	Wu, Zhen	Shandong Univ.
11:30-11:50		ThA15.5

An Optimization Approach to Weak Approximation of Levy-Driven Stochastic Differential Equations with Application to Option Pricing, pp. 3673-3678.
 Kashima, Kenji Tokyo Inst. of Tech.
 Kawai, Reiichiro Osaka Univ.

11:50-12:10
Discrete-Time Optimal Hedging for Multi-Asset European Contingent Claims, pp. 3679-3684.
 M, Uday Kumar Tata Consultancy Services Limited
 Chellaboina, Vijay Tata Consultancy Services
 Bhat, Sanjay P. Tata Consultancy Services Limited
 Prasad, Sandeep Tata Consultancy Services Limited,
 Bhatia, Anil Tata Consultancy Services

ThA16 5F
Consensus in Multi-Agent Systems (Regular Session)

Chair: Zheng, Wei Xing Univ. of Western Sydney
 Co-Chair: Yu, Wenwu City Univ. of Hong Kong, Hong Kong

10:10-10:30
Consensus of High Order Linear Multi-Agent Systems Using Output Error Feedback, pp. 3685-3690.
 Wang, Jinhuan Hebei Univ. of Tech.
 Liu, Zhixin Acad. of Mathematics and Systems Science, Chinese Academy of Sci
 Hu, Xiaoming Royal Inst. of Tech.

10:30-10:50
Asynchronous Consensus of Agents with Double-Integrator Dynamics, pp. 3691-3696.
 Gao, Yanping Peking Univ.
 Wang, Long Peking Univ.

10:50-11:10
Consensus of Multi-Agent Systems with an Active Leader and Asymmetric Adjacency Matrix, pp. 3697-3702.
 Guo, Wanli Wuhan Univ. China
 Chen, Shihua Wuhan Univ. China
 Lu, Jinhua Chinese Acad. of Sciences
 Yu, Xinghuo RMIT Univ.

11:10-11:30
A New Result on Average Consensus for Multiple Agents with Switching Topology and Communication Delay, pp. 3703-3708.
 Qin, Jiahu Harbin Inst. of Tech. Harbin, P.R.China
 Gao, Huijun Harbin Inst. of Tech.
 Zheng, Wei Xing Univ. of Western Sydney

11:30-11:50
On Second-Order Consensus in Multi-Agent Dynamical Systems with Directed Topologies and Time Delays, pp. 3709-3714.
 Yu, Wenwu City Univ. of Hong Kong, Hong Kong
 Chen, Guanrong City Univ. of Hong Kong
 Cao, Ming Univ. of Groningen

11:50-12:10
Finite-Time Consensus for Multi-Agent Systems with Application to Sensor Fusion, pp. 3715-3720.
 Jiang, Fangcui Peking Univ.
 Wang, Long Peking Univ.

ThA17 5H
Modeling and Control of Complex Interaction: A Network Approach (Invited Session)

Chair: Ghosh, Bijoy Texas Tech. Univ.
 Co-Chair: Martin, Clyde F. Texas Tech. Univ.
 Organizer: Ghosh, Bijoy Texas Tech. Univ.
 Organizer: Martin, Clyde F. Texas Tech. Univ.

10:10-10:30
Stability of Switched Linear Systems and the Convergence of Random Products (I), pp. 3721-3726.
 Wang, Ning Texas Tech. Univ.
 Egerstedt, Magnus Georgia Inst. of Tech.
 Martin, Clyde F. Texas Tech. Univ.

10:30-10:50
Target-Point Based Control Strategies for Formations of Mobile Autonomous Agents (I), pp. 3727-3732.
 N/A ThA17.2

10:50-11:10
Rendezvous with Multiple, Intermittent Leaders (I), pp. 3733-3738.
 Notarstefano, Giuseppe Univ. of Lecce
 Egerstedt, Magnus Georgia Inst. of Tech.
 Haque, Musad Georgia Inst. of Tech.

11:10-11:30
Bayesian Network Approach to Understand Regulation of Biological Processes in Cyanobacteria (I), pp. 3739-3744.
 ThA17.4

Elvitigala, Thanura	Washington Univ. in St Louis
Singh, Abhay	washington Univ. in saint louis
Pakrasi, Himadri	Washington Univ.
Ghosh, Bijoy	Texas Tech. Univ.
11:30-11:50	ThA17.5
<i>The Number of Leaders Needed for Consensus (I)</i> , pp. 3745-3750.	
Liu, Zhixin	Acad. of Mathematics and Systems Science, Chinese Academy of Sci
Han, Jing	Acad. of Mathematics and Systems Science
Hu, Xiaoming	Royal Inst. of Tech.
11:50-12:10	ThA17.6
<i>Efficient and Robust Communication Topologies for Distributed Decision Making in Networked Systems (I)</i> , pp. 3751-3756.	
Baras, John S.	Univ. of Maryland
Hovareshti, Pedram	Univ. of Maryland

ThA18	5I
Wireless Sensor Networks and Distributed Cooperative Control and Estimation (Invited Session)	
Chair: Paschalidis, Ioannis	Boston Univ.
Co-Chair: Cassandras, Christos G.	Boston Univ.
Organizer: Paschalidis, Ioannis	Boston Univ.
Organizer: Cassandras, Christos G.	Boston Univ.
10:10-10:30	ThA18.1
<i>On Maximum Lifetime Routing in Wireless Sensor Networks (I)</i> , pp. 3757-3762.	
Ning, Xu	Boston Univ.
Cassandras, Christos G.	Boston Univ.
10:30-10:50	ThA18.2
<i>On Energy Optimized Averaging in Wireless Sensor Networks (I)</i> , pp. 3763-3768.	
Paschalidis, Ioannis	Boston Univ.
Li, Binbin	Boston Univ.
10:50-11:10	ThA18.3
<i>Fault Tolerant Detection and Tracking of Multiple Sources in WSNs Using Binary Data (I)</i> , pp. 3769-3774.	
Michaelides, Michalis	Univ. of Cyprus
Panayiotou, Christos	Univ. of Cyprus
Laoudias, Christos	Univ. of Cyprus
11:10-11:30	ThA18.4
<i>Reduced-Order Predictive Outage Compensators for Networked Systems (I)</i> , pp. 3775-3780.	
Henriksson, Erik	Royal Inst. of Tech.
Sandberg, Henrik	Royal Inst. of Tech. (KTH)
Johansson, Karl H.	Royal Inst. of Tech.
11:30-11:50	ThA18.5
<i>Information Dissemination in Networks Via Linear Iterative Strategies Over Finite Fields (I)</i> , pp. 3781-3786.	
Sundaram, Shreyas	Univ. of Illinois, Urbana-Champaign
Hadjicostis, Christoforos	Univ. of Cyprus
11:50-12:10	ThA18.6
<i>Zero-Error Function Computation in Sensor Networks (I)</i> , pp. 3787-3792.	
Kowshik, Hemant	Univ. of Illinois
Kumar, P. R.	Univ. of Illinois, Urbana-Champaign

ThTATu	Yellow River
Nonlinear Observer Design (Tutorial Session)	
Chair: Astolfi, Alessandro	Imperial Coll. & Univ. of Rome
Co-Chair: Praly, Laurent	Mines Paris-Tech.
10:10-11:10	ThTATu.1
<i>Nonlinear Observer Design: Problem Formulation, High-Gain and Contraction Based Observers (I)*.</i>	
Praly, Laurent	Mines Paris-Tech.
Astolfi, Alessandro	Imperial Coll. & Univ. of Rome
11:10-11:30	ThTATu.2
<i>Kazantzis-Kravaris/Luenberger Observers (I)*.</i>	
Andrieu, Vincent	Univ. de Toulouse & Univ. de Lyon
11:30-11:50	ThTATu.3
<i>Reduced-Order Observers (I)*.</i>	
Carnevale, Daniele	Univ. di Roma
11:50-12:10	ThTATu.4
<i>Symmetry-Preserving Observers (I)*.</i>	
Bonnabel, Silvere	Mines ParisTech

ThAln1	Mandarin Hall
Quantum Information, Control and Algorithms (Interactive Session)	
10:30-11:50	ThAln1.1

- Linear Quantum Feedback Networks with Squeezing Components*, pp. 3793-3798.
 Gough, John Edward
 James, Matthew R.
 Nurdin, Hendra Ishwara
 Aberystwyth Univ.
 Australian National Univ.
 Australian National Univ.
 ThAIn1.2
- 10:30-11:50
Generic Controllability Properties for the Bilinear Schrödinger Equation, pp. 3799-3804.
 Sigalotti, Mario
 Mason, Paolo
 Boscain, Ugo V.
 Chambrion, Thomas
 INRIA Nancy - Grand Est
 Supélec
 CNRS
 Univ. of Nancy
 ThAIn1.3
- 10:30-11:50
Partial Feedback Control of Quantum Systems Using Probabilistic Fuzzy Estimator, pp. 3805-3810.
 Chen, Chunlin
 Rigatos, Gerasimos
 Dong, Daoyi
 nanjing Univ.
 Inst. of Industrial Systems, Patras
 Univ. of New South Wales
 ThAIn1.4
- 10:30-11:50
Implicit Lyapunov Control of Closed Quantum Systems, pp. 3811-3815.
 Zhao, Shouwei
 Lin, Hai
 Sun, Jitao
 Xue, Zhengui
 Dept. of Math., Tongji Univ. Shanghai,200092,China
 National Univ. of Singapore
 Tongji Univ.
 National Univ. of Singapore
 ThAIn1.5
- 10:30-11:50
Parameter Estimation of a 3-Level Quantum System with a Single Population Measurement, pp. 3816-3820.
 Leghtas, Zaki
 Mirrahimi, Mazyar
 Rouchon, Pierre
 INRIA Paris-Rocquencourt
 INRIA Paris-Rocquencourt
 Mines ParisTech
 ThAIn1.6
- 10:30-11:50
Regulation and Tracking of Two-Level Quantum Systems Using Measurement Feedback, pp. 3821-3826.
 Yanagisawa, Masahiro
 James, Matthew R.
 Korotkov, Alexander
 The Australian National Univ.
 Australian National Univ.
 Univ. of California, Riverside
 ThAIn1.7
- 10:30-11:50
Experimental Design and Identifiability of Model Parameters for Quantum Systems, pp. 3827-3832.
 Zhang, Ming
 Schirmer, Sonia G.
 Dai, Hong-Yi
 Zhou, Weiwei
 Lin, Min
 National Univ. of Defense Tech.
 Univ. of Cambridge
 National Univ. of Defense Tech.
 Coll. of Mechatronic Engineering and Automation,NationalUniver
 National Univ. of Defense Tech.
 ThAIn1.8
- 10:30-11:50
Sparse Wiener Chaos Approximations of Nonlinear Filtering with Correlated Noise, pp. 3833-3838.
 Xu, Jian
 Li, Jianxun
 Shanghai Jiao Tong Univ.
 Shanghai Jiao Tong Univ.
 ThAIn1.9
- 10:30-11:50
Newton-Like Extremum-Seeking Part I: Theory, pp. 3839-3844.
 Moase, William
 Manzie, Chris
 Brear, Michael
 The Univ. of Melbourne
 The Univ. of Melbourne
 The Univ. of Melbourne
 ThAIn1.10
- 10:30-11:50
Newton-Like Extremum-Seeking Part II: Simulations and Experiments, pp. 3845-3850.
 Moase, William
 Manzie, Chris
 Brear, Michael
 The Univ. of Melbourne
 The Univ. of Melbourne
 The Univ. of Melbourne
 ThAIn1.11
- 10:30-11:50
Dirac Mixture Approximation of Multivariate Gaussian Densities, pp. 3851-3858.
 Hanebeck, Uwe D.
 Huber, Marco F.
 Klumpp, Vesa
 Univ. Karlsruhe (TH)
 Univ. Karlsruhe (TH)
 Univ. Karlsruhe (TH)

ThAIn2	Mandarin Hall
Switched and Hybrid Systems (Interactive Session)	
10:30-11:50 <i>Exponential Stabilization of Second-Order Switched Systems: Necessary and Sufficient Conditions</i> , pp. 3859-3863. Cong, Shen Yin, Liping Zou, Yun Nanjing Univ. of Science and Tech. Southeast Univ. Nanjing Univ. of Science and Tech.	ThAIn2.1
10:30-11:50 <i>On the Robust Stability, Stabilization, and Stability Radii of Continuous-Time Markov Jump Linear Systems</i> , pp. 3864-3869. Todorov, Marcos G. Fragoso, Marcelo LNCC LNCC / MCT	ThAIn2.2

10:30-11:50		ThAln2.3
	<i>Stability of Networks of Hybrid ISS Systems</i> , pp. 3870-3875.	
	Dashkovskiy, Sergey	Univ. of Bremen
	Kosmykov, Michael	Univ. of Bremen
10:30-11:50		ThAln2.4
	<i>Algebraic Observer for a Class of Switched Systems with Zero Phenomenon</i> , pp. 3876-3881.	
	Zheng, Gang	INRIA
	Yu, Lei	ENSEA
	Boutat, Driss	Ensi de Bourges
	Barbot, Jean Pierre	ENSEA
10:30-11:50		ThAln2.5
	<i>Graceful Switching in Hybrid Models</i> , pp. 3882-3884.	
	Georgiou, Tryphon T.	Univ. of Minnesota
	Georgiou, Katerina	Univ. of Minnesota
10:30-11:50		ThAln2.6
	<i>Variation Paradigm for Asymptotic Gain of Switched Time-Delay Systems</i> , pp. 3885-3890.	
	Han, Thanh Trung	National Univ. of Singapore
	Ge, Shuzhi Sam	National Univ. of Singapore
	Lee, Tong Heng	National Univ. of Singapore
10:30-11:50		ThAln2.7
	<i>Robust Stabilization of Uncertain Complex Singular Dynamical Networks Via Impulsive Control</i> , pp. 3891-3896.	
	Yang, Meng	Huazhong Univ. of Science and Tech.
	Wang, Yan-Wu	Huazhong Univ. of Science and Tech.
	Guan, Zhi-Hong	Huazhong Univ. of Science & Tech.
	Wang, Hua O.	Boston Univ.
10:30-11:50		ThAln2.8
	<i>A Unified Approach to Analysis of Switched Linear Descriptor Systems under Arbitrary Switching</i> , pp. 3897-3902.	
	Zhai, Guisheng	Osaka Prefecture Univ.
	Xu, Xuping	School of Engineering, California Baptist Univ.
10:30-11:50		ThAln2.9
	<i>Quantized Feedback Stabilization of Hybrid Impulsive Control Systems</i> , pp. 3903-3908.	
	Yang, Zhichun	Chongqing Normal Univ.
	Hong, Yiguang	Chinese Acad. of Sciences
	Jiang, Zhong-Ping	Pol. Inst. NYU
	Wang, Xiaoli	Chinese Acad. of Sciences
10:30-11:50		ThAln2.10
	<i>Switching Time Estimation for Linear Switched Systems: An Algebraic Approach</i> , pp. 3909-3913.	
	Tian, Yang	LAGIS-UMR CNRS 8146, Ec. centrale de Lille
	Floquet, Thierry	CNRS
	Belkoura, Lotfi	Univ. Des Sciences Et Tech. De Lille
	Perruquetti, Wilfrid	Ec. Centrale de Lille
10:30-11:50		ThAln2.11
	<i>An Analytical Solution to Dynamic Quantization Problem of Nonlinear Control Systems</i> , pp. 3914-3919.	
	Azuma, Shun-ichi	Kyoto Univ.
	Sugie, Toshiharu	Kyoto Univ.
10:30-11:50		ThAln2.12
	<i>A New Methodology for Piecewise Affine Models Using Voronoi Partitions</i> , pp. 3920-3925.	
	Casselmann, Scott	Concordia Univ.
	Rodrigues, Luis	Concordia Univ.
10:30-11:50		ThAln2.13
	<i>Input-To-State Stability for a Class of Hybrid Dynamical Systems Via Hybrid Time Approach</i> , pp. 3926-3931.	
	Liu, Bin	The Australian National Univ.
	Hill, David J.	The Australian National Univ.
	Teo, K. L.	Curtin Univ. of Tech.

ThAln3		Mandarin Hall
Stochastic and Hybrid Systems (Interactive Session)		

10:30-11:50		ThAln3.1
	<i>Large Deviation Methods for Stochastic Reachability</i> , pp. 3932-3937.	
	Bujorianu, Manuela	Univ. of Manchester
	Wang, Hong	The Univ. of Manchester
10:30-11:50		ThAln3.2
	<i>Beyond Local Optimality: An Improved Approach to Hybrid Model Learning</i> , pp. 3938-3945.	
	Gil, Stephanie	MIT
	Williams, Brian	MIT
10:30-11:50		ThAln3.4
	<i>Estimation Algorithm for Stochastic Linear Hybrid Systems with Quadratic Guard Conditions</i> , pp. 3946-3951.	
	Liu, Weiyi	Purdue Univ.

Hwang, Inseok	Purdue Univ.
Seah, Chze Eng	Purdue Univ.
10:30-11:50	ThAln3.5
<i>Identification of Probability Weighted Multiple ARX Models and Its Application to Behavior Analysis</i> , pp. 3952-3957.	
Taguchi, Shun	Nagoya Univ.
Suzuki, Tatsuya	Nagoya Univ.
Hayakawa, Soichiro	Toyota Tech. Inst.
Inagaki, Shinkichi	Nagoya Univ.
10:30-11:50	ThAln3.6
<i>Multi-Mode Multi-Dimensional Systems with Application to Switched Systems with Delay</i> , pp. 3958-3963.	
Verriest, Erik I.	Georgia Inst. of Tech.
10:30-11:50	ThAln3.7
<i>Switching Scheduling Policies and Their Balanceability</i> , pp. 3964-3968.	
Wang, Xingxuan	Fudan Univ.
10:30-11:50	ThAln3.8
<i>The LaSalle Stability Theorem of General Stochastic Hybrid Systems</i> , pp. 3969-3973.	
Liu, Haijun	Zhengzhou Univ.
Mu, Xiaowu	Zhengzhou Univ.
10:30-11:50	ThAln3.9
<i>Adaptive Control for Time-Delay Markovian Jump Linear Systems with State-Dependant Switching</i> , pp. 3974-3979.	
Dong, Yifan	Univ. of Science and Tech. of China
Kang, Yu	Univ. of Science and Tech. of China
Xi, Hong-Sheng	Univ. of Science and Tech. of China
ThAln4	Mandarin Hall
Model Predictive Control and Optimal Control of Linear Systems (Interactive Session)	
10:30-11:50	ThAln4.1
<i>Real-Time MPC - Stability through Robust MPC Design</i> , pp. 3980-3986.	
Zeilinger, Melanie Nicole	ETH Zurich
Jones, Colin Neil	ETH Zurich
Raimondo, Davide Martino	ETH Zurich
Morari, Manfred	ETH Zurich
10:30-11:50	ThAln4.2
<i>An LMI Approach for Output Feedback Robust Predictive Control Using Orthonormal Basis Functions</i> , pp. 3987-3992.	
Araújo, Humberto Xavier	UFBA
Oliveira, Gustavo	PUCPR
10:30-11:50	ThAln4.3
<i>Application of Robustified Model Predictive Control to a Production-Inventory System</i> , pp. 3993-3998.	
Stoica, Cristina Nicoleta	Supelec
Arahal, Manuel R.	Univ. de Sevilla
Rivera, Daniel E.	Arizona State Univ.
Rodriguez-Ayerbe, Pedro	Supelec
Dumur, Didier	Ec. Superieure d'Electricite
10:30-11:50	ThAln4.4
<i>Model Predictive Control of Linear Time-Varying Systems with Bounded Disturbances Using a Dynamic Terminal Policy</i> , pp. 3999-4004.	
Gautam, Ajay	Nanyang Tech. Univ.
Chu, Yun-Chung	Nanyang Tech. Univ.
Soh, Yeng Chai	Nanyang Tech. Univ.
10:30-11:50	ThAln4.5
<i>Subspace-Based Model Predictive Control of Time-Varying Systems</i> , pp. 4005-4010.	
Mardi, Noor Azizi	RMIT Univ.
Wang, Liuping	Rmit Univ.
10:30-11:50	ThAln4.6
<i>Unified Form of Performance Limitations in Reference Tracking Control Problem for Discrete Time Systems</i> , pp. 4011-4017.	
Okajima, Hiroshi	Kumamoto Univ.
Asai, Toru	Osaka Univ.
Kawaji, Shigeyasu	Kumamoto Univ.
10:30-11:50	ThAln4.7
<i>Novel Characterization of the Infimum in H-Infinity Full Information Control of Discrete-Time Plants</i> , pp. 4018-4023.	
Wahls, Sander	Tech. Univ. Berlin
Boche, Holger	Tech. Univ. Berlin
10:30-11:50	ThAln4.8
<i>Transfer Functions of Closed-Loop Systems in H2 Optimal Control</i> , pp. 4024-4029.	
Tanaka, Hideaki	The Univ. of Tokyo
Tsumura, Koji	The Univ. of Tokyo
Kanno, Masaaki	Niigata Univ.
10:30-11:50	ThAln4.9
<i>Model-Free Norm-Based Fixed Structure Controller Synthesis</i> , pp. 4030-4035.	

Den Hamer, A.J.	Eindhoven Univ. of Tech.
Weiland, Siep	Eindhoven Univ. of Tech.
Steinbuch, Maarten	Eindhoven Univ. of Tech.
10:30-11:50	ThAln4.10
<i>Optimal Control for High Order Systems with Fixed PI Controller Based on Model Reduction and Constrained Optimization</i> , pp. 4036-4041.	
Le, Hoang Bao	LCIS/Grenoble INP
Mendes, Eduardo	LCIS - Grenoble INP
10:30-11:50	ThAln4.11
<i>Analytical Reachability Results for a Class of Nonlinear Systems with Ellipsoidal Initial Sets</i> , pp. 4042-4049.	
Holzinger, Marcus	Univ. of Colorado at Boulder
Scheeres, Daniel	The Univ. of Michigan
10:30-11:50	ThAln4.12
<i>Finite Horizon Linear Quadratic Regulation for Linear Discrete Time-Varying Systems with Single/Multiple Input Delay(s)</i> , pp. 4050-4055.	
Zhou, Jing	Penn State Univ.
Wang, Qian	Penn State Univ.
10:30-11:50	ThAln4.13
<i>Updated Terminal Cost RHC for Continuous-Time Systems</i> , pp. 4056-4061.	
Zhang, Hongwei	the Chinese University of Hong Kong
Huang, Jie	Chinese Univ. of Hong Kong
Lewis, Frank L.	Univ. of Texas at Arlington

ThAln5	Mandarin Hall
Networked Systems (Interactive Session)	

10:30-11:50	ThAln5.1
<i>Optimal Estimation Over Unreliable Communication Links with Application to Cognitive Radio</i> , pp. 4062-4067.	
Ma, Xiao	Univ. of Tennessee
Djouadi, Seddik, M.	Univ. of Tennessee
Kurugunti, Teja	Oak Ridge National Lab.
Nutaro, James	Oak Ridge National Lab.
Li, Husheng	Univ. of Tennessee
10:30-11:50	ThAln5.2
<i>on Signum Feedback Stabilization of Second and Third-Order Systems</i> , pp. 4068-4074.	
Michalska, Hannah H.	McGill Univ.
Hayward, Vincent	Univ. P. et M. Curie
10:30-11:50	ThAln5.3
<i>Optimality of the Logarithmic Quantizer for Stabilization: Achieving the Minimum Data Rate</i> , pp. 4075-4080.	
You, Keyou	Nanyang Tech. Univ.
Su, Weizhou	South China Univ. of Tech.
Fu, Minyue	Univ. of Newcastle
Xie, Lihua	Nanyang Tech. Univ.
10:30-11:50	ThAln5.4
<i>Quantized Robust H-Infinity Control of Discrete-Time Systems with Random Communication Delays</i> , pp. 4081-4086.	
Rasool, Faiz	Univ. of auckland
Nguang, Sing Kiong	The Univ. of Auckland
Huang, Dan	The Univ. of Auckland
Zhang, Lixian	Ec. Pol. de Montreal,
10:30-11:50	ThAln5.5
<i>Quantized H-Infinity Control for Networked Control Systems with Packet Dropouts</i> , pp. 4087-4092.	
Che, Wei-Wei	Northeastern Univ.
Wang, Jian Liang	Nanyang Tech. Univ.
Yang, Guang-hong	Northeastern Univ.
10:30-11:50	ThAln5.6
<i>Stability of Quantized Time-Delay Nonlinear Systems: A Lyapunov-Krasowskii-Functional Approach</i> , pp. 4093-4098.	
De Persis, Claudio	Sapienza Univ. of Rome
Mazenc, Frederic	INRIA Sophia-Antipolis,
10:30-11:50	ThAln5.7
<i>Indirect Coupled Oscillators for Keystream Generation in Secure Chaotic Communication</i> , pp. 4099-4104.	
Kharel, Rupak	Northumbria Univ.
Busawon, Krishna K.	Northumbria Univ.
Ghassemlooy, Fary	Northumbria Univ.
10:30-11:50	ThAln5.9
<i>H_infinity Filtering for Singular Systems with Communication Delays</i> , pp. 4105-4110.	
Lu, RenQuan	Zhejiang Univ.
Xu, Yong	Hangzhou Dianzi Univ. Hangzhou Dianzi Univ.
Zhao, Xiaodong	Hangzhou Dianzi Univ.
Xue, Anke	Hangzhou Dianzi Univ.
Su, Hongye	Zhejiang Univ.
10:30-11:50	ThAln5.10
<i>On Inference of Network Time Constants from Impulse Response Data: Graph-Theoretic Cramer-Rao Bounds</i> , pp. 4111-4116.	

Wan, Yan
Roy, Sandip

Washington State Univ.
Washington State Univ.

ThAln6	Mandarin Hall
Nonlinear and Fuzzy Systems (Interactive Session)	
10:30-11:50 <i>Networked Monitoring and Fault-Tolerant Control of Nonlinear Process Systems</i> , pp. 4117-4124. Ohran, Benjamin James Liu, Jinfeng Muñoz de la Peña, David Christofides, Panagiotis D. Davis, James F.	ThAln6.1 Univ. of California, Los Angeles Univ. of California, Los Angeles Univ. de Sevilla Univ. of California at Los Angeles UCLA
10:30-11:50 <i>Modeling and Control of Hula-Hoop System</i> , pp. 4125-4130. Nishizaki, Jumpei Nakaura, Shigeki Sampei, Mitsuji	ThAln6.2 Tokyo Inst. of Tech. Sasebo National Coll. of Tech. Tokyo Inst. of Tech.
10:30-11:50 <i>Uniform Stability of Sets for Difference Inclusions under Summability Criteria</i> , pp. 4131-4136. Teel, Andrew R. Nesic, Dragan Loria, Antonio Panteley, Elena V.	ThAln6.3 Univ. of California at Santa Barbara Univ. of Melbourne CNRS CNRS
10:30-11:50 <i>Tracking Control of the Trident Snake Robot with the Transverse Function Approach</i> , pp. 4137-4143. Ishikawa, Masato Morin, Pascal Samson, Claude	ThAln6.4 Kyoto Univ. INRIA INRIA Sophia-Antipolis
10:30-11:50 <i>Interval T-S Fuzzy Model and Its Application to Identification of Nonlinear Interval Dynamic System Based on Interval Data</i> , pp. 4144-4149. Xu, Zhengguang Sun, Changping	ThAln6.5 Univ. of Science and Tech. Beijing Univ. of Science and Tech. Beijing
10:30-11:50 <i>Static Output Feedback Controller Design for Takagi-Sugeno Systems – a Fuzzy Lyapunov LMI Approach</i> , pp. 4150-4155. Bouarar, Tahar Guelton, Kevin Manamanni, Nouredine	ThAln6.6 Univ. de Reims Champagne Ardenne Univ. de Reims Champagne-Ardenne Univ. of Reims
10:30-11:50 <i>A Fuzzy Cross-Coupled Linear Quadratic Regulator for Improving the Contour Accuracy of Bi-Axis Machine Tools</i> , pp. 4156-4161. Fuh, Chyun-Chau Tsai, Hsun-Heng Huang, Chang-Cheng	ThAln6.7 National Taiwan Ocean Univ. National Pingtung Univ. of Science and Tech. National Taiwan Ocean Univ.
10:30-11:50 <i>Asymptotically Necessary and Sufficient Stability with Respect to Nonquadratic Lyapunov Function for Takagi-Sugeno Model</i> , pp. 4162-4167. Ding, Baocang Zou, Tao	ThAln6.8 Chongqing Univ. Zhejiang Univ. of Tech.
10:30-11:50 <i>Robust Control of T-S Fuzzy Systems with Time-Varying Delay : New Approach</i> , pp. 4168-4173. Gassara, Hamdi El Hajjaji, Ahmed Chaabane, Mohamed	ThAln6.9 Univ. of Picardie Jules Verne Univ. de Picardie-Jules Verne Univ. of Sfax
10:30-11:50 <i>A Fast and Parsimonious Fuzzy Neural Network (FPFNN) for Function Approximation</i> , pp. 4174-4179. Wang, Ning Meng, Xianyao Xu, Qingyang	ThAln6.10 Dalian Maritime Univ. Dalian Maritime Univ. Dalian Maritime Univ.
10:30-11:50 <i>Controllability and Observability of Uncertain Systems: A Robust Measure</i> , pp. 4180-4186. Sojoudi, Somayeh Lavaei, Javad Aghdam, Amir G.	ThAln6.11 California Inst. of Tech. California Inst. of Tech. Concordia Univ.
10:30-11:50 <i>Nonlinear Adaptive Generalized Predictive Control Method Based on ANFIS and Switching Control</i> , pp. 4187-4192. Zhang, Yajun Chai, Tianyou Niu, Hong Zuo, Jiwen	ThAln6.12 Northeastern Univ. Northeastern Univ. Northeastern Univ. Dachang Senior Experimental Middle School, China.
10:30-11:50	ThAln6.13

Type-II T-S Fuzzy Model-Based Predictive Control, pp. 4193-4198.

Liao, Qianfang
Li, Ning
Li, Shaoyuan

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Shanghai Jiao Tong Univ.
Shanghai Jiao Tong Univ.

ThB01		3D
Stability of Nonlinear Systems (Regular Session)		
Chair: Ito, Hiroshi		Kyushu Inst. of Tech.
Co-Chair: Andrieu, Vincent		Univ. de Toulouse
14:10-14:30		ThB01.1
<i>Asymptotic Stabilization of Passive Systems without Damping Injection: A Sampled Integral–Approximation Technique</i> , pp. 4199-4203.		
Casagrande, Daniele		Univ. of Udine
Astolfi, Alessandro		Imperial Coll. & Univ. of Rome
Ortega, Romeo		LSS-SUPELEC
14:30-14:50		ThB01.2
<i>Lyapunov Formulation of ISS Small-Gain in Dynamical Networks</i> , pp. 4204-4209.		
Liu, Tengfei		The Australian National Univ.
Hill, David J.		The Australian National Univ.
Jiang, Zhong-Ping		Pol. Inst. NYU
14:50-15:10		ThB01.3
<i>On a Small Gain Theorem for Networks of liss Systems</i> , pp. 4210-4215.		
Ito, Hiroshi		Kyushu Inst. of Tech.
Dashkovskiy, Sergey		Univ. of Bremen
Wirth, Fabian R.		Univ. Würzburg
15:10-15:30		ThB01.4
<i>Provably Convergent Structure and Motion Estimation for Perspective Systems</i> , pp. 4216-4221.		
Heyden, Anders		Lund Univ.
Dahl, Ola		DDA Consulting AB
15:30-15:50		ThB01.5
<i>Synchronization of Nonlinear Pendulum-Like Systems</i> , pp. 4222-4227.		
Lu, Pingli		Beijing Inst. of Tech.
Yang, Ying		Peking Univ.
15:50-16:10		ThB01.6
<i>Synthesis of a Global Asymptotic Stabilizing Feedback Law for a System Satisfying Two Different Sector Conditions</i> , pp. 4228-4233.		
Andrieu, Vincent		Univ. de Toulouse & Univ. de Lyon
Prieur, Christophe		LAAS-CNRS
Tarbouriech, Sophie		LAAS-CNRS
Arzelier, Denis		LAAS-CNRS
ThB02		3E
Control of Switched Systems (Regular Session)		
Chair: Michalska, Hannah H.		McGill Univ.
Co-Chair: Buchstaller, Dominic Pasqual		Univ. of Southampton
14:10-14:30		ThB02.1
<i>Robust Stability and Performance Analysis for Multiple Model Adaptive Controllers</i> , pp. 4234-4239.		
Buchstaller, Dominic Pasqual		Imperial Coll. London
French, Mark		Univ. of Southampton
14:30-14:50		ThB02.2
<i>Variable Structure Model Reference Adaptive Control of Unknown Switched Linear Systems with Relative Degree Greater Than One</i> , pp. 4240-4245.		
Chiang, Ming-Li		National Taiwan Univ.
Fu, Li-Chen		National Taiwan Univ.
14:50-15:10		ThB02.3
<i>Robust Exponential Stabilization of Switched Linear Systems</i> , pp. 4246-4251.		
Raouf, Jamila		Ec. Pol. de Montréal
Michalska, Hannah H.		McGill Univ.
15:10-15:30		ThB02.4
<i>An Intelligent Mill Load Switching Control of Pulverizing System for an Alumina Sintering Process</i> , pp. 4252-4257.		
Zhang, Liyan		Northeastern Univ.
Chai, Tianyou		Northeastern Univ.
Wang, Hong		The Univ. of Manchester
15:30-15:50		ThB02.5
<i>Passive Control for Networked Switched Systems with Network-Induced Delays and Packet Dropout</i> , pp. 4258-4263.		
Ma, Dan		Northeastern Univ.
Guo, Zhongfeng		shenyang Univ. of Tech.
Dimirovski, Georgi M		Dogus Univ. of Istanbul
Zhao, Jun		The Australian National Univ.
15:50-16:10		ThB02.6
<i>Switched Feedback Equivalence of a Class of Planar Switched Nonlinear Systems</i> , pp. 4264-4269.		

Barkhordari Yazdi, Mojtaba
Jahed Motlagh, Mohammad Reza
Attia, Sid Ahmed
Raisch, Joerg

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Iran Univ. of Science and Tech.
TU-Berlin
Tech. Univ. Berlin

ThB03	3C
Linear Systems (Regular Session)	
Chair: Malabre, Michel	CNRS
Co-Chair: Delvenne, Jean-Charles	Univ. catholique de Louvain
14:10-14:30	ThB03.1
<i>Implicit Systems Reachability: A Geometric Point of View</i> , pp. 4270-4275.	
Bonilla, Moises E.	CINVESTAV-IPN
Malabre, Michel	CNRS
Loiseau, Jean Jacques	CNRS
14:30-14:50	ThB03.2
<i>Dual Invariance Structure of Controllability and Observability</i> , pp. 4276-4281.	
Hashimoto, Tomoaki	Osaka Univ.
Amemiya, Takashi	Setsunan Univ.
14:50-15:10	ThB03.3
<i>On Positive Real Lemma for Stabilizable and Detectable Systems</i> , pp. 4282-4287.	
Kunimatsu, Sadaaki	Kumamoto Univ.
Fujii, Takao	Fukui Univ. of Tech.
Ishitobi, Mitsuaki	Kumamoto Univ.
15:10-15:30	ThB03.4
<i>A Characterisation of Solution Sets of LTI Differential Equations</i> , pp. 4288-4291.	
Delvenne, Jean-Charles	Univ. catholique de Louvain
Ivanov, Tzvetan	Univ. Catholique de Louvain
15:30-15:50	ThB03.5
<i>Solution of the Disturbance Decoupling Problem Based on Fixed Poles</i> , pp. 4292-4297.	
Zou, Runmin	Ec. Centrale de Nantes, France
Malabre, Michel	CNRS
15:50-16:10	ThB03.6
<i>Frequency-Weighted Discrete-Time LPV Model Reduction Using Structurally Balanced Truncation</i> , pp. 4298-4303.	
Abbas, Hossam Seddik	Hamburg Univ. of Tech.
Werner, Herbert	Hamburg Univ. of Tech.
ThB04	3A
Methods for Analysis and Reduction of Large-Scale Systems I (Invited Session)	
Chair: Antoulas, Athanasios C.	Rice Univ.
Co-Chair: Trentelman, Harry L.	Univ. of Groningen
Organizer: Antoulas, Athanasios C.	Rice Univ.
Organizer: Rapisarda, Paolo	Univ. of Southampton
14:10-14:30	ThB04.1
<i>A Behavioral Approach to Passivity and Bounded Realness Preserving Balanced Truncation with Error Bounds (I)</i> , pp. 4304-4309.	
Trentelman, Harry L.	Univ. of Groningen
Rapisarda, Paolo	Univ. of Southampton
14:30-14:50	ThB04.2
<i>Positive and Bounded Real Balancing for Nonlinear Systems - a Controllability and Observability Function Approach (I)</i> , pp. 4310-4315.	
Ionescu, Tudor C.	Rijksuniversiteit Groningen
Fujimoto, Kenji	Nagoya Univ.
Scherpen, Jacquélien M.A.	Univ. of Groningen
14:50-15:10	ThB04.3
<i>Discrete Empirical Interpolation for Nonlinear Model Reduction (I)</i> , pp. 4316-4321.	
Chaturantabut, Saifon	Rice Univ.
Sorensen, Danny C.	Rice Univ.
15:10-15:30	ThB04.4
<i>Structure-Preserving Model Reduction of Complex Physical Systems (I)</i> , pp. 4322-4327.	
van der Schaft, Arjan J.	Univ. of Groningen
Polyuga, Rostyslav	Univ. of Groningen
15:30-15:50	ThB04.5
<i>Parametric Model Order Reduction Accelerated by Subspace Recycling (I)</i> , pp. 4328-4333.	
Feng, Lihong	Univ. of Freiburg
Benner, Peter	TU Chemnitz
Korvink, Jan G.	Freiburg Univ.
15:50-16:10	ThB04.6
<i>Balanced State-Space Representations: A Polynomial Algebraic Approach (I)</i> , pp. 4334-4339.	
Rapisarda, Paolo	Univ. of Southampton
Trentelman, Harry L.	Univ. of Groningen

ThB05		3J
Optimization (Regular Session)		
Chair: Sigalotti, Mario		INRIA Nancy - Grand Est
Co-Chair: Lu, Yong-Zai		Zhejiang Univ.
14:10-14:30		ThB05.1
<i>Two-Dimensional Almost-Riemannian Structures with Tangency Points</i> , pp. 4340-4345.		
Agrachev, Andrei A.		Int. School for Advanced Studies
Boscain, Ugo V.		CNRS
Charlot, Gregoire		Inst. Fourier, UMR 5582
Ghezzi, Roberta		International School for Advanced Studies
Sigalotti, Mario		INRIA Nancy - Grand Est
14:30-14:50		ThB05.2
<i>Newton Geodesic Optimization on Special Linear Group</i> , pp. 4346-4351.		
Li, Guangwei		Shenyang Insitute of Automation, CAS; Deptment of Management S
Liu, Yunpeng		Shenyang Inst. of Automation,CAS
Shi, Zelin		Shenyang Inst. of Automation, CAS
Yin, Jian		Res. Inst. on General Development and Argumentation of A
14:50-15:10		ThB05.3
<i>Survey on Computational Complexity with Phase Transitions and Extremal Optimization</i> , pp. 4352-4359.		
Zeng, Guoqiang		Zhejiang Univ.
Lu, Yong-Zai		Zhejiang Univ.
15:10-15:30		ThB05.4
<i>Kernel Regression for Travel Time Estimation Via Convex Optimization</i> , pp. 4360-4365.		
Blandin, Sebastien		Univ. of California
El Ghaoui, Laurent M.		Univ. of California at Berkeley
Bayen, Alexandre M.		Univ. of California at Berkeley
15:30-15:50		ThB05.5
<i>An Application of Sequential Convex Programming to Time Optimal Trajectory Planning for a Car Motion</i> , pp. 4366-4371.		
Tran, Dinh Quoc		Katholieke Univ. Leuven, Belgium
Diehl, Moritz		Katholieke Univ. Leuve
15:50-16:10		ThB05.6
<i>Distributed Multiuser Optimization: Algorithms and Error Analysis</i> , pp. 4372-4377.		
Koshal, Jayash		Univ. of Illinois, Urbana-Champaign
Nedich, Angelia		Univ. of Illinois, Urbana-Champaign
Shanbhag, Uday V.		Univ. of Illinois, Urbana-Champaign
ThB06		3G
Mechanical and Nonholonomic Systems (Regular Session)		
Chair: Ishikawa, Masato		Kyoto Univ.
Co-Chair: Hauser, John		Univ. of Colorado at Boulder
14:10-14:30		ThB06.1
<i>Sufficient Conditions for Dissipativity on Duhem Hysteresis Model</i> , pp. 4378-4383.		
Jayawardhana, Bayu		Univ. of Groningen
Andrieu, Vincent		Univ. de Toulouse & Univ. de Lyon
14:30-14:50		ThB06.2
<i>Dynamic Feedback Robust Regulation of Nonholonomic Mobile Robots Based on Visual Servoing</i> , pp. 4384-4389.		
Wang, Chaoli		The Univ. of ShanghaiForScienceandTechnology,Shanghai,20009
Liang, Zhenying		Univ. of Shanghai for Science and Tech.
Liu, Yun Hui		The Chinese Univ. of Hong Kong
14:50-15:10		ThB06.3
<i>Nilpotent Normal Form for Non-Chained Driftless Systems: Characterization of the Cross-Chained Form</i> , pp. 4390-4395.		
Ishikawa, Masato		Kyoto Univ.
Kuroiwa, Takuto		Kyoto Univ.
15:10-15:30		ThB06.4
<i>Development and Exploration of a Rigid Motorcycle Model</i> , pp. 4396-4401.		
MacMillin, Peter		Univ. of Colorado
Hauser, John		Univ. of Colorado at Boulder
15:30-15:50		ThB06.5
<i>Casting Motion Controller for Multilinked Manipulator Utilizing Output Zeroing</i> , pp. 4402-4407.		
Numata, Tsubasa		Tokyo Inst. of Tech.
Nakaaura, Shigeki		Sasebo National Coll. of Tech.
Sampei, Mitsuji		Tokyo Inst. of Tech.
15:50-16:10		ThB06.6
<i>Finite-Time Tracking Controller Design for a General Class of Nonholonomic Systems</i> , pp. 4408-4413.		
Wu, Yuqiang		Qufu Normal Univ.
Yuan, Ruiying		Qufu Normal Univ.
Zheng, Xiuyun		Qufu Normal Univ.
ThB07		5C

Filtering and Estimation III (Regular Session)

Chair: Hassibi, Babak	Caltech
Co-Chair: Kaasa, Glenn-Ole	StatoilHydro ASA
14:10-14:30	ThB07.1
<i>Adaptive Observer Design for Nonlinear Systems with Parametric Uncertainties in Unmeasured State Dynamics</i> , pp. 4414-4419.	
Stamnes, Ryvind Nistad	Norwegian Univ. of Science & Tech.
Zhou, Jing	International Res. Inst. of Stavanger
Aamo, Ole Morten	NTNU
Kaasa, Glenn-Ole	StatoilHydro ASA
14:30-14:50	ThB07.2
<i>Delay-Dependent Filtering for Discrete-Time Systems with Finite Frequency Small Gain Specifications</i> , pp. 4420-4425.	
Zhang, Xiao-Ni	Northeastern Univ.
Yang, Guang-hong	Northeastern Univ.
14:50-15:10	ThB07.3
<i>Optimal Time-Delayed Joint Input and State Estimation for Systems with Unknown Inputs</i> , pp. 4426-4431.	
Hsieh, Chien-Shu	Ta Hwa Inst. of Tech.
15:10-15:30	ThB07.4
<i>Smoother Design for Linear Uncertain Time-Delay Systems</i> , pp. 4432-4437.	
Zhang, Mei	Shandong Jianzhu Univ.
Zhao, Hongguo	Taishan Univ.
Cui, Peng	Shandong Univ.
15:30-15:50	ThB07.5
<i>Robust H_{∞} Filtering for Nonlinear Uncertain Systems Using State-Dependent Riccati Equation Technique</i> , pp. 4438-4445.	
Beikzadeh, Hossein	K.N. Toosi Univ. of Tech.
Taghirad, Hamid D.	K.N. Toosi U. of Tech.
15:50-16:10	ThB07.6
<i>The Kalman Like Particle Filter : Optimal Estimation with Quantized Innovations/Measurements</i> , pp. 4446-4451.	
Sukhavasi, Ravi Teja	California Inst. of Tech.
Hassibi, Babak	Caltech

ThB08

3I

Distributed Parameter Systems II (Regular Session)

Chair: Krstic, Miroslav	Univ. of California at San Diego
Co-Chair: Guo, Bao-Zhu	The Chinese Acad. of Sciences
14:10-14:30	ThB08.1
<i>Control of an Unstable Reaction-Diffusion PDE with Long Input Delay</i> , pp. 4452-4457.	
Krstic, Miroslav	Univ. of California at San Diego
14:30-14:50	ThB08.2
<i>Dead-Time Compensation for Wave/String PDEs</i> , pp. 4458-4463.	
Krstic, Miroslav	Univ. of California at San Diego
14:50-15:10	ThB08.3
<i>Boundary Model Predictive Control of Kuramoto-Sivashinsky Equation with Input and Point State Constraints</i> , pp. 4464-4470.	
Dubljevic, Stevan	UCLA
15:10-15:30	ThB08.4
<i>Frequency Analysis of a Wave Equation with Kelvin-Voigt Damping</i> , pp. 4471-4476.	
Guo, Bao-Zhu	The Chinese Acad. of Sciences
Wang, Jun-Min	Beijing Inst. of Tech.
Zhang, Guo-Dong	Heilongjiang Univ.
15:30-15:50	ThB08.5
<i>Output Stabilization of Euler Beam with Time Delay</i> , pp. 4477-4482.	
Guo, Bao-Zhu	The Chinese Acad. of Sciences
Yang, Kunyi	Acad. Sinica
15:50-16:10	ThB08.6
<i>State Observation Problem for the Euler-Bernoulli Plate Equation</i> , pp. 4483-4486.	
Li, Jing	Southwestern Univ. of Finance and Ec.
Zhang, Zhixiong	Sichuan Univ.

ThB09

3H

Modeling, Estimation and Control: Applications in Neuroscience (Invited Session)

Chair: Takahashi, Kazutaka	Univ. of Chicago
Co-Chair: Wu, Si	Inst. of Neuroscience
Organizer: Takahashi, Kazutaka	Univ. of Chicago
14:10-14:30	ThB09.1
<i>On the Condition for Fast Neural Computation (I)</i> , pp. 4487-4492.	
Wu, Si	Inst. of Neuroscience
Amari, Shun-ichi	Riken
14:30-14:50	ThB09.2
<i>The Parabigeminal Nucleus As a Recursive Estimator (I)</i> , pp. 4493-4498.	

Ma, Rui	Univ. of Illinois, Urbana-Champaign
Coleman, Todd	Univ. of Illinois
Malpeli, Joseph	Univ. of Illinois, Urbana-Champaign
14:50-15:10	ThB09.3
<i>Motor Planning As an Optimization of Command Representation (I)</i> , pp. 4499-4504.	
Ikeda, Shiro	The Inst. of Statistical Mathematics
Sakaguchi, Yutaka	The Univ. of Electro-Communications
15:10-15:30	ThB09.4
<i>A Dual Adaptive Control Theory Inspired by Hebbian Associative Learning (I)</i> , pp. 4505-4510.	
Feng, Jun-e	Shandong Univ.
Tin, Chung	Massachusetts Inst. of Tech.
Poon, Chi-Sang	Massachusetts Inst. of Tech.
15:30-15:50	ThB09.5
<i>Optimal Control and Tracking with Eye Movement Dynamics with and without the Listing's Constraint</i> , pp. 4511-4516.	
Ghosh, Bijoy	Texas Tech. Univ.
Meegaskumbura, Rochana	Texas Tech. Univ.
Ekanayake, Mervyn Parakrama B.	Texas Tech. Univ.
15:50-16:10	ThB09.6
<i>Cell Design in Bacteria As a Convex Optimization Problem</i> , pp. 4517-4522.	
Goelzer, Anne	INRA
Fromion, Vincent	INRA
Scorletti, Gerard	Ec. Centrale de Lyon

ThB10 5D

Adaptive Control: Applications I (Regular Session)

Chair: Ydstie, B. Erik	Carnegie Mellon
Co-Chair: Tang, Yu	National Univ. of Mexico
14:10-14:30	ThB10.1
<i>Identification and Stabilization for a One-Dimensional Wave Equation with Boundary Output Unknown Constant and Non-Collocated Control</i> , pp. 4523-4528.	
Guo, Wei	Univ. of International Business and Ec.
Guo, Bao-Zhu	The Chinese Acad. of Sciences
14:30-14:50	ThB10.2
<i>Passivity-Based Adaptive Inventory Control</i> , pp. 4529-4534.	
Li, Keyu	Carnegie Mellon Univ.
Chan, Kwong Ho	Carnegie Mellon Univ.
Ydstie, B. Erik	Carnegie Mellon
14:50-15:10	ThB10.3
<i>Spacecraft Attitude Maneuvers Using Composite Adaptive Control with Invariant Sliding Manifold</i> , pp. 4535-4540.	
Dando, Aaron	Univ. of Queensland
15:10-15:30	ThB10.4
<i>Discrete Time Extremum Seeking by Autonomous Vehicles in a Stochastic Environment</i> , pp. 4541-4546.	
Stankovic, Milos S.	Univ. of Illinois, Urbana-Champaign
Stipanovic, Dusan M.	Univ. of Illinois, Urbana-Champaign
15:30-15:50	ThB10.5
<i>A Decentralized Adaptive Control for Interconnected Lagrangian Systems</i> , pp. 4547-4552.	
Flores, Juan Francisco	National Univ. of Mexico
Tang, Yu	National Univ. of Mexico
15:50-16:10	ThB10.6
<i>Kalman Filtering for Linear Discrete-Time Systems with Multiple Delayed Noises</i> , pp. 4553-4558.	
Cui, Peng	Shandong Univ.
Zhang, Huanshui	Shandong Univ.
Zhang, Chenghui	Shandong Univ.
Zhao, Hongguo	Taishan Univ.

ThB11 5J

Modeling, Analysis and Synthesis in Biological Systems (Invited Session)

Chair: Altafani, Claudio	SISSA
Co-Chair: Angeli, David	Imperial Coll.
Organizer: Altafani, Claudio	SISSA
Organizer: Angeli, David	Imperial Coll.
14:10-14:30	ThB11.1
<i>On Persistence of Chemical Reaction Networks with Time-Dependent Kinetics and No Global Conservation Laws (I)</i> , pp. 4559-4564.	
Angeli, David	Imperial Coll.
De Leenheer, Patrick	Univ. of Florida
Sontag, Eduardo D.	Rutgers Univ.
14:30-14:50	ThB11.2
<i>On the Compromise between Retroactivity Attenuation and Noise Amplification in Gene Regulatory Networks (I)</i> , pp. 4565-4571.	
Jayanthi, Shridhar	Univ. of Michigan

Del Vecchio, Domitilla	Univ. of Michigan
14:50-15:10	ThB11.3
<i>Kinetic Perturbations As Robustness Analysis Tool for Biochemical Reaction Networks (I)</i> , pp. 4572-4577.	
Waldherr, Steffen	Univ. of Stuttgart
Allgower, Frank	Univ. of Stuttgart
Jacobsen, Elling	Royal Inst. of Tech. - KTH
15:10-15:30	ThB11.4
<i>Short and Long-Term Adaptation in Olfactory Transduction As a Leaky Integral Feedback (I)</i> , pp. 4578-4583.	
De Palo, Giovanna	SISSA Int. School for Advanced Studies
Boccaccio, Anna	Italian Inst. of Tech.
Menini, Anna	SISSA Int. School for Advanced Studies
Altafini, Claudio	SISSA
15:30-15:50	ThB11.5
<i>Design of Insulating Devices for in Vitro Synthetic Circuits (I)</i> , pp. 4584-4589.	
Franco, Elisa	California Inst. of Tech.
Del Vecchio, Domitilla	Univ. of Michigan
Murray, Richard M.	California Inst. of Tech.
15:50-16:10	ThB11.6
<i>Models for Human Postural Regulation That Include Realistic Delays and Partial Observations</i> , pp. 4590-4595.	
Li, Yao	Univ. of Maryland at Coll. Park
Levine, William S.	Univ. of Maryland

ThB12 5E
Integrated Vehicle Dynamics and Control II (Invited Session)

Chair: Lu, Jianbo	Ford Motor Company
Co-Chair: Yi, Jingang	Rutgers Univ.
Organizer: Lu, Jianbo	Ford Motor Company
Organizer: Lin, Zongli	Univ. of Virginia
Organizer: Lu, Xiao-Yun	Univ. of California at Berkeley
Organizer: Tsiotras, Panagiotis	Georgia Inst. of Tech.
14:10-14:30	ThB12.1
<i>Vehicle Lateral Stability Control Via Approximated NMPC: Real-Time Implementation and Software-In-The-Loop Test (I)</i> , pp. 4596-4601.	
Canale, Massimo	Pol. di Torino
Fagiano, Lorenzo	Pol. di Torino
Razza, Valentino	Pol. di Torino
14:30-14:50	ThB12.2
<i>Adaptive Williams Filters with Application to Suspension Control: The Vector Case (I)</i> , pp. 4602-4606.	
Readman, Mark	National Univ. of Ireland
Corless, Martin J.	Purdue Univ.
Villegas, Carlos	National Univ. of Ireland
Shorten, Robert	Nat. Univ. of Ireland
14:50-15:10	ThB12.3
<i>Map-Aided GPS/INS Localization Using a Low-Order Constrained Unscented Kalman Filter (I)</i> , pp. 4607-4612.	
Li, Kang	Univ. of California, Berkeley
Tan, Han-Shue	Univ. of California at Berkeley
Hedrick, Karl	Univ. of California at Berkeley
15:10-15:30	ThB12.4
<i>Autonomous Motorcycles for Agile Maneuvers, Part I: Dynamic Modeling (I)</i> , pp. 4613-4618.	
Yi, Jingang	Rutgers Univ.
Zhang, Yizhai	Xi'an Jiaotong Univ.
Song, Dezhen	Texas A&M Univ.
15:30-15:50	ThB12.5
<i>Autonomous Motorcycles for Agile Maneuvers, Part II: Control Systems Design (I)</i> , pp. 4619-4624.	
Yi, Jingang	Rutgers Univ.
Zhang, Yizhai	Xi'an Jiaotong Univ.
Song, Dezhen	Texas A&M Univ.
15:50-16:10	ThB12.6
<i>A Preliminary Study to Integrate LTV-MPC Lateral Vehicle Dynamics Control with a Slip Control</i> , pp. 4625-4630.	
Palmieri, Giovanni	Univ. degli Studi del Sannio
Barbarisi, Osvaldo	Univ. del Sannio
Glielmo, Luigi	Univ. of Sannio
Scala, Stefano	ELASIS

ThB13 5A
Learning and Control II (Invited Session)

Chair: Meyn, Sean	Univ. of Illinois
Co-Chair: Mehta, Prashant G.	Univ. of Illinois, Urbana-Champaign
Organizer: Meyn, Sean	Univ. of Illinois
Organizer: Mannor, Shie	McGill Univ.
Organizer: Mehta, Prashant G.	Univ. of Illinois, Urbana-Champaign

Organizer: Surana, Amit	United Tech. Res. Center
14:10-14:30	ThB13.1
<i>Polynomial-Time Solution of Change Detection Problems (I)</i> , pp. 4631-4636.	
Isom, Joshua D.	Sikorsky Aircraft Corp.
LaBarre, Bob	United Tech. Res. Center
Braatz, Richard D.	Univ. of Illinois, Urbana-Champaign
14:30-14:50	ThB13.2
<i>Statistical Shape Learning for 3D Tracking (I)</i> , pp. 4637-4642.	
Sandhu, Romeil	Georgia Inst. of Tech.
Lankton, Shawn	Georgia Inst. of Tech.
Dambreville, Samuel	Georgia Inst. of Tech.
Tannenbaum, Allen	Georgia Tech.
14:50-15:10	ThB13.3
<i>Tracking Moving Object Via a Sensor Network with Partial Information Broadcasting Scheme (I)</i> , pp. 4643-4648.	
Li, Jianghai	Tsinghua Univ.
Jia, Qing-Shan	Tsinghua Univ.
Guan, Xiaohong	Xian Jiaotong Univ.
Chen, Xi	Tsinghua Univ.
15:10-15:30	ThB13.4
<i>Nash Equilibrium Problems with Congestion Costs and Shared Constraints (I)</i> , pp. 4649-4654.	
Yin, Huibing	Univ. of Illinois, Urbana-Champaign
Shanbhag, Uday V.	Univ. of Illinois, Urbana-Champaign
Mehta, Prashant G.	Univ. of Illinois, Urbana-Champaign
15:30-15:50	ThB13.5
<i>Risk Sensitive Robust Support Vector Machines (I)</i> , pp. 4655-4661.	
Xu, Huan	The Univ. of Texas at Austin
Caramanis, Constantine	The Univ. of Texas at Austin
Mannor, Shie	McGill Univ.
Yun, Sungho	The Univ. of Texas at Austin
15:50-16:10	ThB13.6
<i>Anomaly Detection Using Projective Markov Models in a Distributed Sensor Network (I)</i> , pp. 4662-4669.	
Meyn, Sean	Univ. of Illinois
Surana, Amit	United Tech. Res. Center
Lin, Yiqing	United Tech. Res. Center
Narayanan, Satish	United Tech. Res. Center

ThB14	5B
Convexification in Identification with Applications (Regular Session)	
Chair: Chiuso, Alessandro	Univ. di Padova
Co-Chair: Sznaier, Mario	Northeastern Univ.
14:10-14:30	ThB14.1
<i>A Convex Approximation for Parameter Estimation Involving Parameter-Affine Dynamic Models</i> , pp. 4670-4675.	
Bonilla, Julian	K.U. Leuven
Diehl, Moritz	Katholieke Univ. Leuven
Logist, Filip	Katholieke Univ. Leuven
De Moor, Bart L.R.	Katholieke Univ. Leuven
Van Impe, Jan F.M.	Katholieke Univ. Leuven
14:30-14:50	ThB14.2
<i>Semidefinite Programming Methods for System Realization and Identification</i> , pp. 4676-4681.	
Liu, Zhang	Univ. of California, Los Angeles
Vandenberghe, Lieven	Univ. of California at Los Angeles
14:50-15:10	ThB14.3
<i>Identification of Nonlinearly Parameterized Nonlinear Models: Application to Mass Balance Systems</i> , pp. 4682-4685.	
Liu, Xiangbin	Zhejiang Univ.
Ortega, Romeo	LSS-SUPELEC
Su, Hongye	Zhejiang Univ.
Chu, Jian	Zhejiang Univ.
15:10-15:30	ThB14.4
<i>Robust Identification of Switched Affine Systems Via Moments-Based Convex Optimization</i> , pp. 4686-4691.	
Ozay, Necmiye	Northeastern Univ.
Lagoa, Constantino M.	Pennsylvania State Univ.
Sznaier, Mario	Northeastern Univ.
15:30-15:50	ThB14.5
<i>System Identification Via Nuclear Norm Regularization for Simulated Moving Bed Processes from Incomplete Data Sets</i> , pp. 4692-4697.	
Grossmann, Cristian	ETH Zurich
Jones, Colin Neil	ETH Zurich
Morari, Manfred	ETH Zurich
15:50-16:10	ThB14.6
<i>A Bayesian Learning Approach to Linear System Identification with Missing Data</i> , pp. 4698-4703.	

ThB15 3B

Stochastic Systems II (Regular Session)

Chair: Teel, Andrew R.	Univ. of California at Santa Barbara
Co-Chair: Huang, Minyi	Carleton Univ.
14:10-14:30	ThB15.1
<i>An Algebraic Approach for the NCE Principle with Massive Subpopulations</i> , pp. 4704-4709.	
Huang, Minyi	Carleton Univ.
14:30-14:50	ThB15.2
<i>A Simulation-Based Method for Aggregating Markov Chains</i> , pp. 4710-4716.	
Deng, Kun	Univ. of Illinois, Urbana-Champaign
Mehta, Prashant G.	Univ. of Illinois, Urbana-Champaign
Meyn, Sean	Univ. of Illinois
14:50-15:10	ThB15.3
<i>Management of Electric Vehicle Charging to Mitigate Renewable Generation Intermittency and Distribution Network Congestion</i> , pp. 4717-4722.	
Caramanis, Michael C.	Boston Univ.
Foster, Justin M.	Boston Univ.
15:10-15:30	ThB15.4
<i>Quickest Detection in Coupled Systems</i> , pp. 4723-4728.	
Hadjiliadis, Olympia	City Univ. of New York
Schaefer, Tobias	City Univ. of New York
Poor, H. Vincent	Princeton Univ.
15:30-15:50	ThB15.5
<i>Preliminary Results on the Existence of Continuous Lyapunov Functions for Semicontinuous, Stochastic Discrete-Time Systems</i> , pp. 4729-4734.	
Teel, Andrew R.	Univ. of California at Santa Barbara
15:50-16:10	ThB15.6
<i>Multi-User Scalable Video Rate Control in Cognitive Radio Networks As a Markovian Dynamic Game</i> , pp. 4735-4740.	
Hassan, Mansour	UBC
Huang, Jane W.	Univ. of British Columbia
Krishnamurthy, Vikram	Univ. of British Columbia

ThB16 5F

Consensus and Agreement Algorithms (Regular Session)

Chair: Papachristodoulou, Antonis	Univ. of Oxford
Co-Chair: Zhai, Guisheng	Osaka Prefecture Univ.
14:10-14:30	ThB16.1
<i>General Distributed Protocols for Finite-Time Consensus of Multi-Agent Systems</i> , pp. 4741-4746.	
Xiao, Feng	Beijing Inst. of Tech.
Wang, Long	Peking Univ.
Chen, Jie	Beijing Inst. of Tech.
14:30-14:50	ThB16.2
<i>H2 Performance of Agreement Protocol with Noise: An Edge Approach</i> , pp. 4747-4752.	
Zelazo, Daniel	Univ. of Washington
Mesbahi, Mehran	Univ. of Washington
14:50-15:10	ThB16.3
<i>Multiscale Networks for Distributed Consensus Algorithms</i> , pp. 4753-4758.	
Selle, Christina	Stanford Univ.
West, Matthew	Univ. of Illinois, Urbana-Champaign
15:10-15:30	ThB16.4
<i>Distributed Discrete-Time Nonlinear Consensus Protocols</i> , pp. 4759-4764.	
Zhou, Jing	Penn State Univ.
Wang, Qian	Penn State Univ.
15:30-15:50	ThB16.5
<i>Generalized Nyquist Consensus Condition for High-Order Linear Multi-Agent Systems with Communication Delays</i> , pp. 4765-4771.	
Muenz, Ulrich	Univ. of Stuttgart
Papachristodoulou, Antonis	Univ. of Oxford
Allgower, Frank	Univ. of Stuttgart
15:50-16:10	ThB16.6
<i>An Extended Consensus Algorithm for Multi-Agent Systems</i> , pp. 4772-4777.	
Zhai, Guisheng	Osaka Prefecture Univ.
Okuno, Shohei	Osaka Prefecture Univ.
Imae, Joe	Osaka Prefecture Univ.
Kobayashi, Tomoaki	Osaka Prefecture Univ.

ThB17 5H

Network Models and Analysis (Regular Session)

Chair: Aeyels, Dirk	Ghent Univ.
Co-Chair: Giarre, Laura	Univ. Di Palermo
14:10-14:30	ThB17.1
<i>Cluster Transitions in a Multi-Agent Clustering Model</i> , pp. 4778-4784.	
De Smet, Filip	Ghent Univ.
Aeyels, Dirk	Ghent Univ.
14:30-14:50	ThB17.2
<i>An Explicit Formula for Differences between Laplacian-Eigenvector Components Using Coalesced Graphs</i> , pp. 4785-4789.	
Roy, Sandip	Washington State Univ.
Wan, Yan	Washington State Univ.
14:50-15:10	ThB17.3
<i>Trust Estimation in Autonomic Networks: A Statistical Mechanics Approach</i> , pp. 4790-4795.	
Ermon, Stefano	Cornell Univ.
Schenato, Luca	Univ. of Padova
Zampieri, Sandro	Univ. di Padova
15:10-15:30	ThB17.4
<i>Reduced Complexity Models in the Identification of Dynamical Networks: Links with Sparsification Problems</i> , pp. 4796-4801.	
Materassi, Donatello	Univ. of Minnesota
Innocenti, Giacomo	Univ. di Firenze
Giarre, Laura	Univ. Di Palermo
15:30-15:50	ThB17.5
<i>Spectral Analysis of Virus Spreading in Random Geometric Networks</i> , pp. 4802-4807.	
Preciado, Victor M.	Univ. of Pennsylvania
Jadbabaie, Ali	Univ. of Pennsylvania
15:50-16:10	ThB17.6
<i>Minimal Dynamical Structure Realisations with Application to Network Reconstruction from Data</i> , pp. 4808-4813.	
Yuan, Ye	Univ. of Cambridge
Stan, Guy-Bart Vincent	Univ. of Cambridge
Warnick, Sean	Brigham Young Univ.
Goncalves, Jorge M.	Univ. of Cambridge

ThB18

51

Resource Allocation in Wireless Networks (Invited Session)

Chair: Yeh, Edmund	Yale Univ.
Co-Chair: Hariharan, Srikanth	The Ohio State Univ.
Organizer: Yeh, Edmund	Yale Univ.
Organizer: Berry, Randall	Northwestern Univ.
Organizer: Marbach, Peter	Univ. of Toronto
14:10-14:30	ThB18.1
<i>Distributed and Optimal Reduced Primal-Dual Algorithm for Uplink OFDM Resource Allocation (I)</i> , pp. 4814-4819.	
Zhang, Xiaoxin	Peking Univ.
Chen, Liang	Chinese Univ. of Hong Kong
Huang, Jianwei	The Chinese Univ. of Hong Kong
Chen, Minghua	The Chinese Univ. of Hong Kong
Zhao, Yuping	Peking Univ.
14:30-14:50	ThB18.2
<i>On the Queue-Overflow Probabilities of Distributed Scheduling Algorithms (I)</i> , pp. 4820-4825.	
Zhao, Can	Purdue Univ.
Lin, Xiaojun	Purdue Univ.
14:50-15:10	ThB18.3
<i>Stochastic Optimization for Markov Modulated Networks with Application to Delay Constrained Wireless Scheduling (I)</i> , pp. 4826-4833.	
Neely, Michael J.	Univ. of Southern California
15:10-15:30	ThB18.4
<i>Exploring and Exploiting Routing Opportunities in Wireless Ad-Hoc Networks (I)</i> , pp. 4834-4839.	
Bhorkar, Abhijeet	UCSD
Naghshvar, Mohammad	UCSD
Javidi, Tara	Univ. of California, San Diego
Rao, Bhaskar	Univ. of California San Diego
15:30-15:50	ThB18.5
<i>Convergence and Stability of a Distributed CSMA Algorithm for Maximal Network Throughput (I)</i> , pp. 4840-4845.	
Jiang, Libin	U.C. Berkeley
Walrand, Jean	Univ. of California at Berkeley
15:50-16:10	ThB18.6
<i>Maximizing Aggregated Revenue in Sensor Networks under Deadline Constraints (I)</i> , pp. 4846-4851.	
Hariharan, Srikanth	The Ohio State Univ.
Shroff, Ness B.	The Ohio State Univ.

ThTBTu

Yellow River

Uncertainty: Theory, Computation and Applications (Tutorial Session)

Chair: Baras, John S. Co-Chair: Kurzhanski, A.B.	Univ. of Maryland Univ. of California, Berkeley
14:10-14:30 <i>On the Problem of Measurement Feedback Control under Set-Membership Uncertainty: From Theory to Computation (I)*.</i> Kurzhanski, A.B.	ThTBTu.1 Lomonosov Moscow State Univ.
14:30-14:50 <i>Separation, Computation and Solution in Output Feedback Control (I)*.</i> Baras, John S. Kurzhanski, A.B.	ThTBTu.2 Univ. of Maryland Lomonosov Moscow State Univ.
14:50-15:10 <i>Robust Output Feedback: Basic Theory and Extensions to Hybrid Dynamical Systems (I)*.</i> Baras, John S.	ThTBTu.3 Univ. of Maryland
15:10-15:30 <i>Lyapunov and Invariance Methods: Conservative or Intractable (I)*.</i> Blanchini, Franco	ThTBTu.4 Univ. degli Studi di Udine
15:30-15:50 <i>Controllability and Reachability under Set-Valued Constraints and Disturbances: Directions and Challenges (I)*.</i> Blanchini, Franco Rakovic, Sasa V.	ThTBTu.5 Univ. degli Studi di Udine Imperial Coll. London
15:50-16:10 <i>Tube Model Predictive Control (I)*.</i> Rakovic, Sasa V.	ThTBTu.6 Imperial Coll. London

ThBIn1

Mandarin Hall

Iterative Learning and Fault Diagnosis (Interactive Session)

14:30-15:50 <i>Iterative Learning Control for Spatio-Temporal Dynamics in an Nd Systems Setting</i> , pp. 4852-4857. Cichy, Blazej Galkowski, Krzysztof Rogers, Eric	ThBIn1.1 Univ. of Zielona Gora Univ. of Zielona Gora Univ. of Southampton
14:30-15:50 <i>Iterative Learning Control for Network Systems with Communication Delay or Data Dropout</i> , pp. 4858-4863. Liu, Chunping Xu, Jian-Xin Wu, Jun	ThBIn1.2 Zhejiang Univ. National Univ. of Singapore Zhejiang Univ.
14:30-15:50 <i>Iterative Learning Control Based on Strong Practical Stability of Repetitive Processes</i> , pp. 4864-4869. Dabkowski, Pawel Grzegorz Galkowski, Krzysztof Rogers, Eric Cai, Zhonglun Freeman, Christopher T. Lewin, Paul L.	ThBIn1.3 Nicolaus Copernicus Univ. Univ. of Zielona Gora Univ. of Southampton Univ. of Southampton Univ. of Southampton
14:30-15:50 <i>Frequency-Domain Approach to Robust Iterative Learning Controller Design for Uncertain Time-Delay Systems</i> , pp. 4870-4875. Meng, Deyuan Jia, Yingmin Du, Junping Yu, Fashan	ThBIn1.4 Beihang Univ. (BUAA) Beihang Univ. Beijing Univ. of Posts and Telecommunications Henan Pol. Univ.
14:30-15:50 <i>Using 2D Systems Theory to Design Iterative Learning Control Laws with Multiple Reference Signals</i> , pp. 4876-4881. Bochniak, Jacek Galkowski, Krzysztof Rogers, Eric	ThBIn1.5 Univ. of Zielona Gora Univ. of Zielona Gora Univ. of Southampton
14:30-15:50 <i>H Infinity-Based Design Approach to Discrete-Time Learning Control Systems with Iteration-Varying Disturbances</i> , pp. 4882-4887. Meng, Deyuan Jia, Yingmin Du, Junping Yu, Fashan	ThBIn1.6 Beihang Univ. (BUAA) Beihang Univ. Beijing Univ. of Posts and Telecommunications Henan Pol. Univ.
14:30-15:50 <i>Sensor and Actuator Fault Detection and Isolation for a High Performance Aircraft Engine Bleed Air Temperature Control System</i> , pp. 4888-4893. Shang, Lan Liu, Guangjun	ThBIn1.7 Ryerson Univ. Ryerson Univ.
14:30-15:50 <i>On the Security of Linear Consensus Networks</i> , pp. 4894-4901.	ThBIn1.8

Pasqualetti, Fabio	Univ. of California, Santa Barbara
Bicchi, Antonio	Univ. di Pisa
Bullo, Francesco	Univ. California at Santa Barbara
14:30-15:50	ThBIn1.9
<i>Actuator Fault Detection and Diagnosis Based on Morphology-Wavelet</i> , pp. 4902-4907.	
Zhang, Yi	Hebei Pol. Univ.
Hou, Guolian	North China Electric Power Univ.
Baojiang, Wu	Hebei Pol. Univ.
14:30-15:50	ThBIn1.10
<i>Fault Detection and Isolation for Linear Discrete-Time Systems Using Input/Output Measurement Analysis</i> , pp. 4908-4913.	
Zhang, Ze	Imperial Coll. London
Jaimoukha, Imad M.	Imperial Coll. London
14:30-15:50	ThBIn1.11
<i>An Extended Qualitative Multi-Faults Diagnosis from First Principles II: Algorithm and Case Study</i> , pp. 4914-4919.	
Hu, He-xuan	Univ. des Sci et Tech. Lille
Gehin, Anne-Lise	Univ. of Lille
Bayart, Mireille	Pol.
14:30-15:50	ThBIn1.12
<i>Probing the NASA Generic Transport Aircraft in Real-Time for Health Monitoring</i> , pp. 4920-4926.	
Ruschmann, Matthew	Binghamton Univ.
Huang, Jianzhuang	Binghamton Univ.
Wu, Neng Eva	Binghamton Univ.
14:30-15:50	ThBIn1.13
<i>Bayesian Method for Multimode Non-Gaussian Process Monitoring</i> , pp. 4927-4932.	
Ge, Zhiqiang	Zhejiang Univ.
Song, Zhi-Huan	Zhejiang Univ.
Zhang, MuGuang	Zhejiang Univ.
Fu, Ruowei	Zhejiang Univ.
Zhu, Zhi-Bo	Zhejiang Univ.
14:30-15:50	ThBIn1.14
<i>Optimal Diagnostic Observer for Sampled-Data Systems</i> , pp. 4933-4938.	
Qiu, Aibing	Nanjing Univ. of Aeronautics and Astronautics
Wen, Chenglin	Hangzhou Dianzi Univ.
Jiang, Bin	Nanjing Univ. of Aeronautics & Astronautics
14:30-15:50	ThBIn1.15
<i>Non-Invasive Valve Stiction Detection Using Wavelet Technology</i> , pp. 4939-4944.	
Xu, ZhanYang	1,Nanjing Univ. of Posts and Telecommunications; 2,Nanjing
Zhan, Charles	Honeywell
Zhang, Shunyi	Nanjing Univ. of Posts and Telecommunications
ThBIn2	Mandarin Hall
Topics in Networked Control (Interactive Session)	
14:30-15:50	ThBIn2.1
<i>Optimal Tracking and Performance Analysis for LTI Systems with Quantization Effect</i> , pp. 4945-4950.	
Qi, Tian	South China Univ. of Tech.
Su, Weizhou	South China Univ. of Tech.
Chen, Jie	Univ. of California at Riverside
14:30-15:50	ThBIn2.2
<i>Step Tracking Control with Disturbance Rejection for Networked Control Systems with Random Time Delays</i> , pp. 4951-4956.	
Shi, Yang	Univ. of Victoria
Yu, Bo	Univ. of Saskatchewan
Huang, Ji	Univ. of Saskatchewan
14:30-15:50	ThBIn2.3
<i>Stability Bounds on Entropy Rate for Real-Time Tracking an Unstable LTI Process Over a Multi-Access Network</i> , pp. 4957-4962.	
Huang, Ching-Ling	Univ. of California, Berkeley
Sengupta, Raja	Univ. of California at Berkeley
Guan, Xu	UC, Berkeley
14:30-15:50	ThBIn2.4
<i>Stability of High Order Distributed Power Control</i> , pp. 4963-4970.	
Moller, Anders	Royal Inst. of Tech.
Jonsson, Ulf T.	Royal Inst. of Tech. (KTH)
14:30-15:50	ThBIn2.5
<i>Gadara Nets: Modeling and Analyzing Lock Allocation for Deadlock Avoidance in Multithreaded Software</i> , pp. 4971-4976.	
Wang, Yin	Univ. of Michigan
Liao, Hongwei	Univ. of Michigan, Ann Arbor
Reveliotis, Spyros A.	Georgia Inst. of Tech.
Kelly, Terence	HP
Mahlke, Scott	Univ. of Michigan, Ann Arbor
Lafortune, Stephane	Univ. of Michigan

14:30-15:50		ThBln2.6
<i>Solving Large-Scale Linear Circuit Problems Via Convex Optimization</i> , pp. 4977-4984.		
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.
14:30-15:50		ThBln2.7
<i>Synchronization of Coupled Harmonic Oscillators in a Dynamic Proximity Network</i> , pp. 4985-4990.		
Su, Housheng		Shanghai Jiao Tong Univ.
Wang, Xiaofan		Shanghai JiaoTong Univ.
Lin, Zongli		Univ. of Virginia
14:30-15:50		ThBln2.8
<i>A Switched System Approach to Scheduling of Networked Control Systems with Communication Constraints</i> , pp. 4991-4996.		
Dai, Shi-Lu		National Univ. of Singapore
Lin, Hai		National Univ. of Singapore
Ge, Shuzhi Sam		National Univ. of Singapore

ThBln3		Mandarin Hall
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Optimal Control III (Interactive Session)		
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14:30-15:50		ThBln3.1
<i>Optimal Command Generation for Flexible Mechanical Systems under Multiple Constraints</i> , pp. 4997-5002.		
Nishiyama, Takehiro		Advanced Tech. R&D Center, Mitsubishi Electric
Yamada, Katsuhiko		Nagoya Univ.
Yoshikawa, Shoji		Advanced Tech. R&D Center, Mitsubishi Electric
14:30-15:50		ThBln3.2
<i>Parameter Approximate Dynamic Optimization for PSO Systems</i> , pp. 5003-5008.		
Kang, Qi		Tongji Univ.
Wang, Lei		Tongji Univ.
Liu, Derong		Univ. of Illinois at Chicago
Wu, Qidi		Tongji Univ.
14:30-15:50		ThBln3.3
<i>Model-Free Approximate Dynamic Programming for Continuous-Time Linear Systems</i> , pp. 5009-5014.		
Lee, Jae Young		Yonsei Univ.
Park, J. B.		Yonsei Univ.
Choi, Yoon Ho		Kyonggi Univ.
14:30-15:50		ThBln3.4
<i>Multiple Instantaneous Collisions in a Variational Framework</i> , pp. 5015-5020.		
Seghete, Vlad		Northwestern Univ.
Murphey, Todd		Northwestern Univ.
14:30-15:50		ThBln3.5
<i>On Normal Forms of Necessary Conditions of Optimality for Dynamic Optimization Problems with Constraints</i> , pp. 5021-5026.		
Lopes, Sofia		Univ. of Minho
Fontes, Fernando A. C. C.		Faculty of Engineering, Univ. of Porto (FEUP)
14:30-15:50		ThBln3.6
<i>Time-Optimal Control of Fractional Dynamic Systems</i> , pp. 5027-5032.		
Tricaud, Christophe		Utah State Univ.
Chen, YangQuan		Utah State Univ.
14:30-15:50		ThBln3.7
<i>Optimal Control of Dynamical Systems with Active Singularities under Single and Multi-Impact Sequences: A Ball/Racket System Example</i> , pp. 5033-5038.		
Bentsman, Joseph		Univ. of Illinois, Urbana-Champaign
Miller, Boris		Monash Univ.
Rubinovich, Evgeny		Russian Acad. of Sciences
Mazumder, Sudip		Univ. of Illinois, Chicago
14:30-15:50		ThBln3.8
<i>On Connecting Trajectories with Maximum Persistence of Behavior</i> , pp. 5039-5044.		
Yeung, Deryck		Georgia Inst. of Tech.
Verriest, Erik I.		Georgia Inst. of Tech.
14:30-15:50		ThBln3.9
<i>Time Maximum Control for a Class of Single-Input Planar Affine Control Systems and Constraints</i> , pp. 5045-5050.		
Liu, Feng		Purdue Univ.
Chiu, George T.-C.		Purdue Univ.
Hamby, Eric S.		Xerox Corp.
Eun, Yongsoon		Xerox
14:30-15:50		ThBln3.10
<i>Closed-Form Solution for a Class of Continuous-Time Algebraic Riccati Equations</i> , pp. 5051-5056.		
Rojas, Alejandro J.		Univ. of Newcastle
14:30-15:50		ThBln3.11

A Chebyshev Pseudospectral Method for Nonlinear Constrained Optimal Control Problems, pp. 5057-5062.

Gong, Qi
Ross, I. Michael
Fahroo, Fariba

Univ. of California, Santa Cruz
Naval Postgraduate School
AFOSR

ThBln4		Mandarin Hall
Optimization and Optimal Design (Interactive Session)		
14:30-15:50		ThBln4.1
<i>Design of the Optimal Thruster Combinations Table for the Real Time Control Allocation of Spacecraft Thrusters</i> , pp. 5063-5068.		
Wang, Min	Beijing Inst. of Control Engineering	
Xie, Yongchun	Beijing Inst. of Control Engineering	
14:30-15:50		ThBln4.2
<i>A Sequential Constrained Least-Squares Method to Minimax Design of Stable IIR Digital Filters</i> , pp. 5069-5073.		
Lai, Xiaoping	Hangzhou Dianzi Univ.	
Lin, Zhiping	School of Electrical & Electronic Eng., Nanyang Tech. Un	
14:30-15:50		ThBln4.3
<i>Optimal Measurement Selection for Any-Time Kalman Filtering with Processing Constraints</i> , pp. 5074-5079.		
Moshtagh, Nima	Scientific System Company Inc.	
Chen, Lingji	Scientific Systems Company Inc.	
Mehra, Raman K.	Scientific Systems Co. Inc.	
14:30-15:50		ThBln4.4
<i>Hot Rolling Turn Scheduling Using Lagrangian Relaxation</i> , pp. 5080-5085.		
Zhang, Yanyan	Northeastern Univ.	
Tang, Lixin	Northeastern Univ.	
14:30-15:50		ThBln4.5
<i>Dynamic Decoupling in Nano-Accurate Motion Systems Using a Gradient Approximation-Based Algorithm</i> , pp. 5086-5091.		
Heertjes, Marcel	Eindhoven Univ. of Tech.	
Hennekens, Daan Willem Theresia	Eindhoven Univ. of Tech.	
van Engelen, Arjan	Eindhoven Univ. of Tech.	
Steinbuch, Maarten	Eindhoven Univ. of Tech.	
14:30-15:50		ThBln4.6
<i>Optimal Micro-Siting of Wind Turbines by Genetic Algorithms Based on Improved Wind and Turbine Models</i> , pp. 5092-5096.		
Wan, Chunqiu	Tsinghua Univ.	
Wang, Jun	Tsinghua Univ.	
Li, Xiaolan	Tsinghua Univ.	
Yang, Geng	Tsinghua Univ.	
Zhang, Xing	Tsinghua Univ.	
14:30-15:50		ThBln4.8
<i>Quantum Evolutionary Algorithm for Vehicle Routing Problem with Simultaneous Delivery and Pickup</i> , pp. 5097-5101.		
Hu, Feng Jun	ZheJiang ShuRen Univ.	
Wu, Bin	Nanjing Univ. of Tech.	
14:30-15:50		ThBln4.9
<i>Hybrid Control Strategy for Five-Fingered Smart Prosthetic Hand</i> , pp. 5102-5107.		
Chen, Cheng-Hung	Idaho State Univ.	
Naidu, D. Subbaram	Idaho State Univ.	
Perez, Alba	Idaho State Univ.	
Schoen, Marco	Idaho State Univ.	
14:30-15:50		ThBln4.10
<i>The Quantification of Large SNR for MLE of ARARMAX Models</i> , pp. 5108-5113.		
Zou, Yiqun	Univ. of Manchester	
Heath, William Paul	Univ. of Manchester	
ThBln5		Mandarin Hall
Distributed Parameter and Delay Systems II (Interactive Session)		
14:30-15:50		ThBln5.1
<i>L₂-Gain Analysis and Feedback Design for Discontinuous Time-Delay Systems Based on Functional Differential Inclusion</i> , pp. 5114-5119.		
Zhang, Jiangyan	Sophia Univ.	
Shen, Tielong	Sophia Univ.	
Jiao, Xiaohong	Yanshan Univ.	
14:30-15:50		ThBln5.2
<i>Robust Stabilization for Discretized PID Control Systems with Transmission Delay</i> , pp. 5120-5126.		
Okuyama, Yoshifumi	Humanitech Lab.	
14:30-15:50		ThBln5.4
<i>Semistability Theory for Spatially Distributed Systems</i> , pp. 5127-5132.		
Hui, Qing	Texas Tech. Univ.	
Berg, Jordan M.	Texas Tech. Univ.	
14:30-15:50		ThBln5.5
<i>Control by Interconnection of Distributed Port-Hamiltonian Systems Based on Finite Elements Approximation</i> , pp. 5133-5138.		
Macchelli, Alessandro	Univ. of Bologna - Italy	

Melchiorri, Claudio	Univ. of Bologna
14:30-15:50	ThBIn5.7
<i>A PDE Viewpoint on Basic Properties of Coordination Algorithms with Symmetries</i> , pp. 5139-5144.	
Sarlette, Alain	Univ. of Liege (Belgium)
Sepulchre, Rodolphe J.	Univ. de Liege
14:30-15:50	ThBIn5.8
<i>Decoupling Based Decentralized Robust Control for Combined Shape and Gauge System in Tandem Cold Rolling Process</i> , pp. 5145-5150.	
Jing, Peng	Univ. of Science and Tech. Beijing
Tong, Chaonan	Univ. of Science and Tech. Beijing
Xiao, Lei	Univ. of Science and Tech. Beijing
14:30-15:50	ThBIn5.9
<i>A Sub-Optimal Distributed Kalman Filter with Fusion Feedback for Acyclic Systems</i> , pp. 5151-5157.	
Azizi, Seyyedmohsen	Concordia Univ.
Khorasani, Khashayar	Concordia Univ.
ThBIn6	Mandarin Hall
Automotive and Aerospace Systems (Interactive Session)	
14:30-15:50	ThBIn6.1
<i>Design and Experimental Investigation of Demand Dependent Active Suspension for Vehicle Rollover Control</i> , pp. 5158-5163.	
Wang, Lifu	Univ. of Tech. Sydney
Zhang, Nong	Univ. of Tech. Sydney
Du, Haiping	Univ. of Wollongong
14:30-15:50	ThBIn6.2
<i>H_{inf} Control of Uncertain Seat Suspension Systems Subject to Input Delay and Actuator Saturation</i> , pp. 5164-5169.	
Zhao, Yingbo	Harbin Inst. of Tech. Harbin, China
Ou, Yan	Harbin Inst. of Tech. Harbin, China
Zhang, Lixian	Ec. Pol. de Montreal,
Gao, Huijun	Harbin Inst. of Tech.
14:30-15:50	ThBIn6.3
<i>Vibration Suppression of Vehicle Active Suspension Systems in Finite Frequency Domian</i> , pp. 5170-5175.	
Gao, Huijun	Harbin Inst. of Tech.
Sun, Weichao	Harbin Inst. of Tech.
Kaynak, Okyay	Bogazici Univ.
14:30-15:50	ThBIn6.4
<i>Advanced Yaw Control of Four-Wheeled Vehicles Via Rear Active Differential Braking</i> , pp. 5176-5181.	
Corno, Matteo	Pol. di Milano
Tanelli, Mara	Pol. di Milano
Boniolo, Ivo	Pol. di Milano
Savaresi, Sergio M.	Pol. Di Milano
14:30-15:50	ThBIn6.5
<i>Nonlinear Model Predictive Control of Lean NOx Trap Regenerations</i> , pp. 5182-5187.	
Hsieh, Ming Feng	The Ohio State Univ. Center for Automotive Res.
Wang, Junmin	Ohio State Univ.
14:30-15:50	ThBIn6.6
<i>Fuel Cell Based Auxiliary Power Unit Modeling, Optimization, and Control</i> , pp. 5188-5193.	
Chen, Jian	Univ. of Michigan
Sun, Jing	Univ. of Michigan
14:30-15:50	ThBIn6.7
<i>Reduced-Order Modeling for Studying and Controlling Misfire in Four-Stroke HCCI Engines</i> , pp. 5194-5199.	
Mayhew, Christopher G.	Univ. of California, Santa Barbara
Knierim, Karl Lukas	Univ. Stuttgart
Chaturvedi, Nalin A.	Robert Bosch LLC
Park, Sungbae	Robert Bosch LLC
Ahmed, Jasim	Program Manager
Kojic, Aleksandar	Robert Bosch Res. and Tech. Center
14:30-15:50	ThBIn6.8
<i>Control of a Two Stage Turbocharger on a Diesel Engine</i> , pp. 5200-5206.	
Moulin, Philippe	IFP
Grondin, Olivier	IFP
Fontvieille, Laurent	Renault SA
14:30-15:50	ThBIn6.9
<i>A Probabilistic Approach to Air Traffic Complexity Evaluation</i> , pp. 5207-5212.	
Prandini, Maria	Pol. di Milano
Hu, Jianghai	Purdue Univ.
14:30-15:50	ThBIn6.10
<i>Control of Quadrotor Aircrafts without Velocity Measurements</i> , pp. 5213-5218.	
Zhang, Ruifeng	Beijing Univ. of Aeronautics and Astronautics
Wang, Xinhua	Beijing Univ. of Aeronautics and Astronautics
Cai, Kai-Yuan	School of Automation, Beijing Univ. of Aeronautics and Astr

14:30-15:50		ThBIn6.11
<i>A Mixed Integer Program for Flight-Level Assignment and Speed Control for Conflict Resolution</i> , pp. 5219-5226.		
Vela, Adan		Georgia Inst. of Tech.
Solak, Senay		Univ. of Massachusetts Amherst
Singhose, William		Georgia Inst. of Tech.
Clarke, John-Paul		Georgia Tech.
14:30-15:50		ThBIn6.12
<i>Output Tracking Control for Autonomous Spacecraft Rendezvous</i> , pp. 5227-5232.		
Yang, Xuebo		Harbin Inst. of Tech.
Bo, Yuming		Nanjing Univ. of science and Tech.
Liu, Yurong		Yangzhou Univ.
Ji, Zhijian		Qingdao Univ.
Gao, Huijun		Harbin Inst. of Tech.
14:30-15:50		ThBIn6.13
<i>Adaptive Position Tracking of VTOL UAVs</i> , pp. 5233-5238.		
Roberts, Andrew		Univ. of Western Ontario
Tayebi, Abdelhamid		Lakehead Univ.
14:30-15:50		ThBIn6.14
<i>A Backstepping Approach to Multivariable Robust Constraint Satisfaction with Application to a VTOL Helicopter</i> , pp. 5239-5244.		
Bürger, Mathias		Univ. of Stuttgart
Guay, Martin		Queen's Univ.

ThC01		3D
New Techniques for Stabilization and Regulation of Nonlinear Systems (Invited Session)		
Chair: Chen, Zhiyong		The Univ. of Newcastle
Co-Chair: Marconi, Lorenzo		Univ. di Bologna
Organizer: Chen, Zhiyong		The Univ. of Newcastle
Organizer: Marconi, Lorenzo		Univ. di Bologna
16:30-16:50		ThC01.1
<i>Nonlinear Stabilization through Long Input Delay - Part I: Forward Complete Systems (I)</i> , pp. 5245-5250.		
Krstic, Miroslav		Univ. of California at San Diego
16:50-17:10		ThC01.2
<i>Performance Analysis of Output Regulation for a Class of Nonlinear Systems (I)</i> , pp. 5251-5256.		
Ma, Kemao		Harbin Inst. of Tech.
Khalil, Hassan K.		Michigan State Univ.
17:10-17:30		ThC01.3
<i>A Non-Adaptive Approach to the Problem of Tracking Uncertain Oscillations (I)</i> , pp. 5257-5262.		
Isidori, Alberto		Univ. di Roma "La Sapienza"
Marconi, Lorenzo		Univ. di Bologna
17:30-17:50		ThC01.4
<i>Controlled Synchronization Via Nonlinear Integral Coupling (I)</i> , pp. 5263-5268.		
Pavlov, Alexey		StatoilHydro Res. Center
Steur, Erik		Eindhoven Univ. of Tech.
Van De Wouw, Nathan		Eindhoven Univ. of Tech.
17:50-18:10		ThC01.5
<i>Stabilization of Boolean Control Networks (I)</i> , pp. 5269-5274.		
Cheng, Daizhan		Chinese Acad. of Sciences
Liu, Jiang		Bradley Univ.
18:10-18:30		ThC01.6
<i>Robust Adaptive Regulation of Polynomial Systems with Dynamic Uncertainties (I)</i> , pp. 5275-5280.		
Chen, Zhiyong		The Univ. of Newcastle
Huang, Jie		Chinese Univ. of Hong Kong

ThC02		3E
Optimal Control of Hybrid Systems (Regular Session)		
Chair: Egerstedt, Magnus		Georgia Inst. of Tech.
Co-Chair: Bauso, Dario		Univ. di Palermo
16:30-16:50		ThC02.1
<i>Second Order Switching Time Optimization for Time-Varying Nonlinear Systems</i> , pp. 5281-5286.		
Johnson, Elliot		Northwestern Univ.
Murphey, Todd		Northwestern Univ.
16:50-17:10		ThC02.2
<i>Optimal Reset Law Design of Reset Control Systems with Application to HDD Systems</i> , pp. 5287-5292.		
Guo, Yuqian		Central South Univ.
Wang, Youyi		Nanyang Tech. Univ.
Xie, Lihua		Nanyang Tech. Univ.
Li, Hui		Nanyang Tech. Univ.
Gui, Weihua		Central South Univ.
17:10-17:30		ThC02.3

<i>Design of Optimal Switching Surfaces for Switched Autonomous Systems</i> , pp. 5293-5298. Schild, Axel Ding, Xu Chu Egerstedt, Magnus Lunze, Jan	Ruhr Univ. Bochum Georgia Inst. of Tech. Georgia Inst. of Tech. Ruhr-Univ. Bochum
17:30-17:50	ThC02.4
<i>Optimal Impulse Control Problems and Linear Programming</i> , pp. 5299-5304. Bauso, Dario	Univ. di Palermo
17:50-18:10	ThC02.5
<i>On-Line Adaptive Optimal Timing Control of Switched Systems</i> , pp. 5305-5310. Ding, Xu Chu Wardi, Yorai Egerstedt, Magnus	Georgia Inst. of Tech. Georgia Inst. of Tech. Georgia Inst. of Tech.
18:10-18:30	ThC02.6
<i>An Algorithm for Event-Based Optimal Feedback Control</i> , pp. 5311-5316. Gruene, Lars Mueller, Florian	Univ. of Bayreuth Univ. of Bayreuth

ThC03	3C
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Constrained Control of Linear Systems (Regular Session)

Chair: Schmid, Robert Co-Chair: Dorea, Carlos E.T.	The Univ. of Melbourne Univ. Federal da Bahia
16:30-16:50	ThC03.1
<i>Output-Feedback Controlled-Invariant Polyhedra for Constrained Linear Systems</i> , pp. 5317-5322. Dorea, Carlos E.T.	Univ. Federal da Bahia
16:50-17:10	ThC03.2
<i>On the Design of Nonovershooting Linear Tracking Controllers for Right-Invertible Systems</i> , pp. 5323-5327. Schmid, Robert Ntogramatzidis, Lorenzo	The Univ. of Melbourne Curtin Univ. of Tech.
17:10-17:30	ThC03.3
<i>Achieving a Nonovershooting Transient Response with Multivariable Dynamic Output Feedback Tracking Controllers</i> , pp. 5328-5332. Schmid, Robert Ntogramatzidis, Lorenzo	The Univ. of Melbourne Curtin Univ. of Tech.
17:30-17:50	ThC03.4
<i>H2 Design of Decoupling Controllers Based on Directional Interpolations</i> , pp. 5333-5338. Park, Kiheon	SungKyunKwan Univ.
17:50-18:10	ThC03.5
<i>Linear Control of Time-Domain Constrained Systems</i> , pp. 5339-5344. Aangenent, Wouter Heemels, Maurice Molengraaf, René van de Steinbuch, Maarten	Eindhoven Univ. of Tech. Eindhoven Univ. of Tech. Eindhoven Univ. of Tech. Eindhoven Univ. of Tech.
18:10-18:30	ThC03.6
<i>Sharp Estimates on the Region of Attraction of Planar Linear Systems with Bounded Controls</i> , pp. 5345-5350. Corradini, Maria Letizia Cristofaro, Andrea Giannoni, Fabio	Univ. di Camerino Univ. di Camerino Univ. di Camerino

ThC04	3A
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Methods for Analysis and Reduction of Large-Scale Systems II (Invited Session)

Chair: Antoulas, Athanasios C. Co-Chair: Gugercin, Serkan Organizer: Antoulas, Athanasios C.	Rice Univ. Virginia Tech. Rice Univ.
16:30-16:50	ThC04.1
<i>Model Reduction of Multi-Variable Distributed Systems through Empirical Projection Spaces (I)</i> , pp. 5351-5356. van Belzen, Femke Weiland, Siep Ozkan, Leyla	Tech. Univ. Eindhoven Eindhoven Univ. of Tech. Eindhoven Univ. of Tech.
16:50-17:10	ThC04.2
<i>An Overview of Model Reduction Methods and a New Result (I)</i> , pp. 5357-5361. Antoulas, Athanasios C. Rapisarda, Paolo	Rice Univ. Univ. of Southampton
17:10-17:30	ThC04.3
<i>Interpolation-Based H₂ Model Reduction for Port-Hamiltonian Systems (I)</i> , pp. 5362-5369. Gugercin, Serkan Polyuga, Rostyslav Beattie, Christopher A. van der Schaft, Arjan J.	Virginia Tech. Univ. of Groningen Virginia Tech. Univ. of Groningen
17:30-17:50	ThC04.4

<i>A Trust Region Method for Optimal H_2 Model Reduction (I)</i> , pp. 5370-5375. Beattie, Christopher A. Gugercin, Serkan	Virginia Tech. Virginia Tech.
17:50-18:10	ThC04.5
<i>Model Order Reduction for a Class of Nonlinear Electrical Circuits (I)</i> , pp. 5376-5383. Reis, Timo Heinkenschloss, Matthias	Tech. Univ. Berlin Rice Univ.
18:10-18:30	ThC04.6
<i>Reduced-Order Observer Design Using a Lagrangian Method</i> , pp. 5384-5389. Mutsaers, Mark Weiland, Siep Engelaar, Richard	Eindhoven Univ. of Tech. Eindhoven Univ. of Tech. Eindhoven Univ. of Tech.
ThC05	3J
Distributed Optimization and Optimal Control (Regular Session)	
Chair: Swigart, John Co-Chair: Zhong, Minyi	Stanford Univ. Boston Univ.
16:30-16:50	ThC05.1
<i>Distributed MPC Based on a Cooperative Game</i> , pp. 5390-5395. Maestre, J.M. Muñoz de la Peña, David Camacho, Eduardo F.	Univ. of Seville Univ. de Sevilla Univ. of Sevilla
16:50-17:10	ThC05.2
<i>Asynchronous Distributed Optimization with Minimal Communication and Connectivity Preservation</i> , pp. 5396-5401. Zhong, Minyi Cassandras, Christos G.	Boston Univ. Boston Univ.
17:10-17:30	ThC05.3
<i>Congestion Control Algorithms from Optimal Control Perspective</i> , pp. 5402-5408. Lavaei, Javad Doyle, John C. Low, Steven	California Inst. of Tech. California Inst. of Tech. California Inst. of Tech.
17:30-17:50	ThC05.4
<i>A Graph-Theoretic Approach to Distributed Control Over Networks</i> , pp. 5409-5414. Swigart, John Lall, Sanjay	Stanford Univ. Stanford Univ.
17:50-18:10	ThC05.5
<i>Control and Estimation Problems under Partially Nested Information Pattern</i> , pp. 5415-5419. Gattami, Ather	MIT
18:10-18:30	ThC05.6
<i>Distributed Model Predictive Control of Dynamically Decoupled Linear Systems with Coupled Cost</i> , pp. 5420-5425. Wang, Chen Ong, Chong-Jin Sim, Melvyn	National Univ. of Singapore National Univ. of Singapore National Univ. of Singapore
ThC06	3G
Mechatronics (Regular Session)	
Chair: Perez Arancibia, Nestor Osvaldo Co-Chair: Mirmirani, Maj Dean	Univ. of California, Los Angeles Embry-Riddle Aeronautical Univ.
16:30-16:50	ThC06.1
<i>A Novel Rotary Dual-Stage Actuator Positioner</i> , pp. 5426-5431. Zheng, Jinchuan Salton, Aurelio Tergolina Fu, Minyue	The Univ. of Newcastle, Australia Univ. of Newcastle, Australia Univ. of Newcastle
16:50-17:10	ThC06.2
<i>Multiple-Period Adaptive-Repetitive Control of a Hard Disk Drive</i> , pp. 5432-5439. Perez Arancibia, Nestor Osvaldo Tsao, Tsu-chin Gibson, James Steven	Univ. of California, Los Angeles Univ. of California, Los Angeles Univ. of California, Los Angeles
17:10-17:30	ThC06.3
<i>Nonlinear Control Approaches for SI Engine Model with Uncertainties</i> , pp. 5440-5445. Yan, Rui Li, Haizhou Dong, Z. Y. Tang, Huajin	Inst. for Infocomm Res. R Inst. for Infocomm Res. The Hong Kong Pol. Univ. Inst. for Infocomm Res.
17:30-17:50	ThC06.4
<i>Adaptive Necessary Signal Extraction Control Based on 2DF Virtual Error Approach to Smart Window Systems</i> , pp. 5446-5453. Okumura, Hiroshi Sano, Akira	Keio Univ. Keio Univ.
17:50-18:10	ThC06.5

<i>Testrun Adaption and Control for a Torsional Vibration Testrig Actuator</i> , pp. 5454-5459.	Graz Univ. of Tech. Graz Univ. of Tech. Kristl, Seibt & Co
Haidinger, Thomas Hofbauer, Michael Rossegger, Wilfried	ThC06.6
18:10-18:30	
<i>Fractional Order Proportional and Derivative Controller Synthesis for a Class of Fractional Order Systems: Tuning Rule and Hardware-In-The-Loop Experiment (I)</i> , pp. 5460-5465.	Utah State Univ. Nanjing Inst. of Tech. Jiangsu, P R China Utah State Univ.
Luo, Ying Li, Hongsheng Chen, YangQuan	

ThC07	5C
Filter Design (Regular Session)	

Chair: Li, X. Rong Co-Chair: Novara, Carlo	Univ. of New Orleans Pol. di Torino
16:30-16:50	ThC07.1
<i>Optimal Hinfinity Filtering for Nonlinear Delayed Systems with Multiple Sensors</i> , pp. 5466-5471.	Zhejiang Univ. Univ. of New Orleans
Liu, Meiqin Li, X. Rong	
16:50-17:10	ThC07.2
<i>Delay-Dependent Energy-To-Peak Filter Design for Stochastic Systems with Time Delay: A Delay Partitioning Approach</i> , pp. 5472-5477.	Harbin Inst. of Tech. Harbin Inst. of Tech. Univ. of Glamorgan Ec. Pol. de Montreal,
Yang, Rongni Gao, Huijun Shi, Peng Zhang, Lixian	
17:10-17:30	ThC07.3
<i>The LFT Based PHD Filter for Nonlinear Jump Markov Models in Multi-Target Tracking</i> , pp. 5478-5483.	The Univ. of New South Wales The Univ. of New South Wales UPS
Pasha, Ahmed Tuan, Hoang Duong Apkarian, Pierre	
17:30-17:50	ThC07.4
<i>A New Approach to Optimal Filter Design for Nonlinear Systems</i> , pp. 5484-5489.	Pol. di Torino Pol. di Torino Pol. di Torino
Novara, Carlo Ruiz, Fredy Milanese, Mario	
17:50-18:10	ThC07.5
<i>Near-Optimal Deterministic Filtering on the Unit Circle</i> , pp. 5490-5495.	Australian National Univ. The Australian National Univ. Australian National Univ. K.U. Leuven
Coote, Paul William Trumpf, Jochen Mahony, Robert Willems, Jan C.	
18:10-18:30	ThC07.6
<i>Markov Chain Distributed Particle Filters (MCDPF)</i> , pp. 5496-5501.	Stanford Univ. Univ. of Illinois, Urbana-Champaign
Lee, Sun Hwan West, Matthew	

ThC08	3I
Distributed Parameter Systems III (Regular Session)	

Chair: Pavel, Lacra Co-Chair: Yamamoto, Yutaka	Univ. of Toronto Kyoto Univ.
16:30-16:50	ThC08.1
<i>Hankel Norm Computation for Pseudorational Transfer Functions</i> , pp. 5502-5507.	Kyoto Univ. Kyoto Univ.
Ogura, Masaki Yamamoto, Yutaka	
16:50-17:10	ThC08.2
<i>Dynamic Practical Stabilization of Sampled-Data Linear Distributed Parameter Systems</i> , pp. 5508-5513.	The Univ. of Melbourne Univ. d'Orléans Univ. Paris-Sud, CNRS, Supelec Univ. of Melbourne
Tan, Ying Trelat, Emmanuel Chitour, Yacine Nesic, Dragan	
17:10-17:30	ThC08.3
<i>Global Classical Solvability of Initial-Boundary Problems for Hyperbolic Lotka-Volterra Systems in Sobolev Spaces</i> , pp. 5514-5519.	Univ. of Toronto
Pavel, Lacra	
17:30-17:50	ThC08.4
<i>Controllability and Observability of Coupled Systems</i> , pp. 5520-5525.	Imperial Coll. London Tel Aviv Univ.
Zhao, Xiaowei Weiss, George	
17:50-18:10	ThC08.5
<i>Strong Stabilization of a Wind Turbine Tower Model</i> , pp. 5526-5531.	

Zhao, Xiaowei	Imperial Coll. London
Weiss, George	Tel Aviv Univ.
18:10-18:30	ThC08.6
<i>A Controlled Distributed Parameter Model for a Fluid-Flexible Structure System: Numerical Simulations and Experiment Validations</i> , pp. 5532-5537.	
Robu, Bogdan	LAAS - CNRS
Baudouin, Lucie	CNRS
Prieur, Christophe	LAAS-CNRS

ThC09	3H
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Emerging Applications (Regular Session)

Chair: Collins, Pieter	Centrum voor Wiskunde en Informatica
Co-Chair: Fujioka, Hiroyuki	Fukuoka Inst. of Tech.
16:30-16:50	ThC09.1
<i>A Computable Type Theory for Control Systems</i> , pp. 5538-5543.	
Collins, Pieter	Centrum voor Wiskunde en Informatica
16:50-17:10	ThC09.2
<i>Discrete-Time, Minimum-Variance Hedging of European Contingent Claims</i> , pp. 5544-5549.	
Bhat, Sanjay P.	Indian Inst. of Tech. - Bombay
Chellaboina, Vijay	Tata Consultancy Services
Bhatia, Anil	Tata Consultancy Services
Prasad, Sandeep	Tata Consultancy Services Limited,
M, Uday Kumar	Tata Consultancy Services Limited
17:10-17:30	ThC09.3
<i>Recursive Construction of Smoothing Spline Surfaces Using Normalized Uniform B-Splines</i> , pp. 5550-5555.	
Fujioka, Hiroyuki	Fukuoka Inst. of Tech.
Kano, Hiroyuki	Tokyo Denki Univ.
17:30-17:50	ThC09.4
<i>Solution Search Algorithm for a CFD Optimization Problem with Multimodal Solution Space</i> , pp. 5556-5561.	
Kuriyama, Yoshifumi	Gifu Univ.
Hayashi, Shuichiro	Gifu Univ.
Yano, Ken'ichi	Gifu Univ.
Watanabe, Mamoru	Terrabyte Co.,Ltd.
17:50-18:10	ThC09.5
<i>Synchronization Analysis of the Supermarket Refrigeration System</i> , pp. 5562-5567.	
Wisniewski, Rafal	Aalborg Univ.
Chen, Liang	Donghua Univ.
Larsen, Lars Finn Sloth	Danfoss A/S
18:10-18:30	ThC09.6
<i>Energy Consumption Reduction with Low Computational Needs in Multicore Systems with Energy-Performance Tradeoff</i> , pp. 5568-5573.	
Durand, Sylvain	INRIA
Marchand, Nicolas	Gispa-Lab.

ThC10	5D
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Adaptive Control: Applications II (Regular Session)

Chair: Chowdhury, Fahmida N.	National Science Foundation
Co-Chair: Kaasa, Glenn-Ole	StatoilHydro ASA
16:30-16:50	ThC10.1
<i>Robust Adaptive Sliding Mode Controller for Triaxial Gyroscope</i> , pp. 5574-5579.	
Fei, Juntao	Hohai Univ.
Chowdhury, Fahmida N.	National Science Foundation
16:50-17:10	ThC10.2
<i>Hysteresis Modeling and Compensation for an XY Micropositioning Stage with Model Reference Adaptive Control</i> , pp. 5580-5585.	
Li, Yangmin	Univ. of Macau
Xu, Qingsong	Univ. of Macau
17:10-17:30	ThC10.3
<i>Pressure Regulation with Kick Attenuation in a Managed Pressure Drilling System</i> , pp. 5586-5591.	
Zhou, Jing	International Res. Inst. of Stavanger
Stamnes, Ryvind Nistad	Norwegian Univ. of Science & Tech.
Aamo, Ole Morten	NTNU
Kaasa, Glenn-Ole	StatoilHydro ASA
17:30-17:50	ThC10.4
<i>Support Vector Machine Based Optimal Control for Mobile Wheeled Inverted Pendulums with Dynamics Uncertainties</i> , pp. 5592-5597.	
Li, Zhijun	Shanghai Jiao Tong Univ.
Yang, Kun	Shanghai Jiao Tong Univ.
Yang, Yipeng	Shanghai Jiao Tong Univ.
17:50-18:10	ThC10.5
<i>Modeling and Gain Scheduling Adaptive Control of Tension Control System for Continuous Annealing Process</i> , pp. 5598-5603.	
Liu, Qiang	Northeastern Univ.

Chai, Tianyou
 Zhao, Lijie
 Zhang, Yingwei
 Zhang, Shuran
 18:10-18:30
Adaptive Constraint-Filtering Method and Its Application to GPS Positioning, pp. 5604-5609.

Northeastern Univ.
 north eastern Univ.
 Northeastern Univ.
 Shenyang Supervision Center of Energy-saving
 ThC10.6

Chang, Tsai Hsin
 Wang, Li-Sheng
 Chang, Fan Ren

National Taiwan Univ.
 National Taiwan Univ.
 National Taiwan Univ.

ThC11 5J
Biomolecular Networks (Invited Session)

Chair: Chesi, Graziano
 Co-Chair: Chen, Luonan
 Organizer: Chesi, Graziano
 Organizer: Aihara, Kazuyuki
 Organizer: Chen, Luonan
 Organizer: Zhao, Xingming
 Organizer: Wang, Ruiqi

Univ. of Hong Kong
 Osaka Sangyo Univ.
 Univ. of Hong Kong
 Univ. of Tokyo
 Osaka Sangyo Univ.
 Shanghai Univ.
 Shanghai Univ.

16:30-16:50
Integer Programming-Based Methods for Attractor Detection and Control of Boolean Networks (I), pp. 5610-5617.

Akutsu, Tatsuya
 Hayashida, Morihiro
 Tamura, Takeyuki

ThC11.1
 Kyoto Univ.
 Kyoto Univ.
 Kyoto Univ.

16:50-17:10
Canalizing Structure of Genetic Network Dynamics: Modelling and Identification Via Mixed-Integer Programming (I), pp. 5618-5623.

Cinquemani, Eugenio
 Porreca, Riccardo
 Lygeros, John
 Ferrari-Trecate, Giancarlo

ThC11.2
 ETH Zurich
 Univ. di Pavia
 ETH Zurich
 Univ. degli Studi di Pavia

17:10-17:30
Detection of Network Structure Changes by Graphical Chain Modeling: A Case Study of Hepatitis C Virus-Related Hepatocellular Carcinoma (I), pp. 5624-5630.

Saito, Shigeru
 Honda, Masao
 Kaneko, Shuichi
 Horimoto, Katsuhisa

National Inst. of Advanced Industrial Science and Technology
 Kanazawa Univ. Graduate School of Medicine
 Kanazawa Univ. Graduate School of Medicine
 National Inst. of Advanced Industrial Science and Technology

17:30-17:50
Toward Non-Conservative Stability Conditions for Equilibrium Points of Genetic Networks with SUM Regulatory Functions (I), pp. 5631-5636.

Chesi, Graziano

ThC11.4
 Univ. of Hong Kong

17:50-18:10
Verification of Multistability in Gene Regulation Networks: A Combinatorial Approach (I), pp. 5637-5642.

Breindl, Christian
 Allgower, Frank

ThC11.5
 Univ. of Stuttgart
 Univ. of Stuttgart

18:10-18:30
Analysis on Steady States of Photosynthetic Carbon Metabolic System (I), pp. 5643-5648.

Lei, Hong-Bo
 Wang, Xin
 Wang, Ruiqi
 Zhu, Xinguang
 Chen, Luonan
 Zhang, Ji-Feng

ThC11.6
 Chinese Acad. of Sciences
 Chinese Acad. of Sciences
 Shanghai Univ.
 PICB
 Osaka Sangyo Univ.
 Chinese Acad. of Sciences

ThC12 5E
Motion Planning and Coordination of Autonomous Vehicles (Regular Session)

Chair: Tsiotras, Panagiotis
 Co-Chair: Greytak, Matthew

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

16:30-16:50
The Asymmetric Sinistral/Dextral Markov-Dubins Problem, pp. 5649-5654.

Bakolas, Efstathios
 Tsiotras, Panagiotis

ThC12.1
 Georgia Tech.
 Georgia Inst. of Tech.

16:50-17:10
Motion Planning with an Analytic Risk Cost for Holonomic Vehicles, pp. 5655-5660.

Greytak, Matthew
 Hover, Franz S.

ThC12.2
 Massachusetts Inst. of Tech.
 Massachusetts Inst. of Tech.

17:10-17:30
Towards Constant Velocity Navigation and Collision Avoidance for Autonomous Nonholonomic Aircraft-Like Vehicles, pp. 5661-5666.

Roussos, Giannis
 Kyriakopoulos, Kostas J.

ThC12.3
 National Tech. Univ. of Athens
 National Tech. Univ. of Athens

17:30-17:50		ThC12.4
	<i>Collision-Free Tracking Control of Unicycle Mobile Robots</i> , pp. 5667-5672.	
	Kostic, Dragan	Tech. Univ. Eindhoven
	Adinandra, Sisdarmanto	Eindhoven Univ. of Tech.
	Caarls, Jurjen	Tech. Univ. of Eindhoven
	Van De Wouw, Nathan	Eindhoven Univ. of Tech.
	Nijmeijer, Hendrik	Eindhoven Univ. of Tech.
17:50-18:10		ThC12.5
	<i>Deadlock-Free Path-Following Control for Collision Avoidance of Multiple Robots</i> , pp. 5673-5678.	
	Sakurama, Kazunori	The Univ. of Electro-Communications
	Nakano, Kazushi	The Univ. of Electro-Communications
18:10-18:30		ThC12.6
	<i>Safe Coordination Control Policy for Multiple Input Constrained Nonholonomic Vehicles</i> , pp. 5679-5684.	
	Mejia, Juan	Univ. of Illinois
	Stipanovic, Dusan M.	Univ. of Illinois, Urbana-Champaign

ThC13		5A
Control of Intelligent Systems (Regular Session)		
	Chair: Doyle, Francis	Univ. of California at Santa Barbara
	Co-Chair: Karimi, Alireza	EPFL
16:30-16:50		ThC13.1
	<i>Dynamic Control of Biologically Inspired Pulsatile Jet Propulsion Thrusters</i> , pp. 5685-5690.	
	Krieg, Michael	Univ. of Colorado
	Mohseni, Kamran	Univ. of Colorado at Boulder
16:50-17:10		ThC13.2
	<i>Linear Parameter Varying Iterative Learning Control</i> , pp. 5691-5695.	
	Butcher, Mark Edward John	Ec. Pol. Federal de Lausanne
	Karimi, Alireza	EPFL
17:10-17:30		ThC13.3
	<i>A Synthesis Method for the Complex-Valued Associative Memory Constrained by the Attractive Domain</i> , pp. 5696-5701.	
	Liu, Xiaoyu	Wuhan Univ. of Science and Tech.
	Fang, Kang-ling	Coll. of information Science and Engineering, Wuhan Univ.
	Liu, Bin	Wuhan Univ. of Science and Tech.
17:30-17:50		ThC13.4
	<i>Stability Analysis for Set-Point-Related Indirect Iterative Learning Control</i> , pp. 5702-5707.	
	Wang, Youqing	Univ. of California Santa Barbara
	Doyle, Francis	Univ. of California at Santa Barbara
17:50-18:10		ThC13.5
	<i>A New PID-Type Fuzzy Neural Network Controller Based on Genetic Algorithm with Improved Smith Predictor</i> , pp. 5708-5713.	
	Wang, Ruiqi	Shan Dong Univ.
	Li, Ke	Univ. of Shandong
	Cui, Naxin	Shandong Univ.
	Zhang, Chenghui	Shandong Univ.
18:10-18:30		ThC13.6
	<i>Piecewise-Linear Constrained Control for Timed Continuous Petri Nets</i> , pp. 5714-5720.	
	Vazquez, Carlos Renato	Univ. de Zaragoza
	Silva, Manuel	Univ. De Zaragoza

ThC14		5B
New Developments in System Identification (Invited Session)		
	Chair: Pasik-Duncan, Bozenna	Univ. of Kansas
	Co-Chair: Ljung, Lennart	Linkoping Univ.
	Organizer: Pasik-Duncan, Bozenna	Univ. of Kansas
	Organizer: Ljung, Lennart	Linkoping Univ.
16:30-16:50		ThC14.1
	<i>AR Models of Singular Spectral Matrices (I)</i> , pp. 5721-5726.	
	Anderson, Brian D.O.	Australian National Univ.
	Deistler, Manfred	Tech. Univ. of Vienna
	Chen, Wei-tian	Australian National Univ.
	Filler, Alexander	Tech. Univ. of Vienna
16:50-17:10		ThC14.2
	<i>On the Usefulness of Persistent Excitation in ARX Adaptive Tracking (I)</i> , pp. 5727-5732.	
	Bercu, Bernard	Univ. Bordeaux 1
	Vazquez, Victor	Univ. Bordeaux 1
17:10-17:30		ThC14.3
	<i>Adaptation and the Effort Needed to Adapt (I)</i> , pp. 5733-5737.	
	Bittanti, Sergio	Pol. di Milano
	Campi, M. C.	Univ. di Brescia
	Prandini, Maria	Pol. di Milano

17:30-17:50		ThC14.4
<i>On Manifolds, Climate Reconstruction and Bivalve Shells (I)</i> , pp. 5738-5743.		
Ohlsson, Henrik		Linköping Univ.
Bauwens, Maite		Vrije Univ. Brussel
Ljung, Lennart		Linköping Univ.
17:50-18:10		ThC14.5
<i>A Model-Based Approach to Clock Synchronization (I)</i> , pp. 5744-5749.		
Freris, Nikolaos		Univ. of Illinois, Urbana-Champaign
Borkar, Vivek S.		Tata Inst. of Fundamental Res.
Kumar, P. R.		Univ. of Illinois, Urbana-Champaign
18:10-18:30		ThC14.6
<i>Optimization and Identification in a Non-Equilibrium Dynamic Game (I)</i> , pp. 5750-5755.		
Mu, Yifen		Chinese Acad. of Sciences
Guo, Lei		Chinese Academy of Sciences

ThC15		3B
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Stochastic Systems III (Regular Session)		
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Chair: Lavaei, Javad		California Inst. of Tech.
Co-Chair: Mukaidani, Hiroaki		Hiroshima Univ.
16:30-16:50		ThC15.1
<i>Quantized Consensus Via Adaptive Stochastic Gossip Algorithm</i> , pp. 5756-5762.		
Lavaei, Javad		California Inst. of Tech.
Murray, Richard M.		California Inst. of Tech.
16:50-17:10		ThC15.2
<i>Discrete-Time Minimum Tracking Based on Stochastic Approximation Algorithm with Randomized Differences</i> , pp. 5763-5767.		
Granichin, Oleg N.		St.Petersburg State Univ.
Gurevich, Lev		SPbSU
Vakhitov, Alexander		Saint Petersburg State Univ.
17:10-17:30		ThC15.3
<i>An Evolutionary Space Search Algorithm (ESSA) for Global Numerical Optimization</i> , pp. 5768-5773.		
Lu, Tzzy-Chyang		National Cheng Kung Univ.
Juang, Jyh-Ching		National Cheng Kung Univ.
17:30-17:50		ThC15.4
<i>Sequentially Updated Probability Collectives</i> , pp. 5774-5779.		
Smyrnakis, Michalis		Univ. of Bristol
Leslie, David		Univ. of Bristol
17:50-18:10		ThC15.5
<i>Search on Lines and Graphs</i> , pp. 5780-5785.		
Li, Hua		Fair Isaac Co
Chong, Edwin K. P.		Colorado State Univ.
18:10-18:30		ThC15.6
<i>Soft-Constrained Stochastic Nash Games for Multimodeling Systems Via Static Output Feedback Strategy</i> , pp. 5786-5791.		
Mukaidani, Hiroaki		Hiroshima Univ.
Xu, Hua		Univ. of Tsukuba
Dragan, Vasile		Romanian Acad.

ThC16		5F
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Consensus and Rendezvous Problems (Regular Session)		
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Chair: Hui, Qing		Texas Tech. Univ.
Co-Chair: Di Bernardo, Mario		Univ. of Naples Federico II
16:30-16:50		ThC16.1
<i>Hybrid Consensus Protocols: An Impulsive Dynamical System Approach</i> , pp. 5792-5797.		
Hui, Qing		Texas Tech. Univ.
16:50-17:10		ThC16.2
<i>On Matrix Factorization and Finite-Time Average-Consensus</i> , pp. 5798-5803.		
Ko, Chih-Kai		California Inst. of Tech.
Gao, Xiaojie		California Inst. of Tech.
17:10-17:30		ThC16.3
<i>Consensus of Multi-Agent Directed Networks with Nonlinear Perturbations Via Impulsive Control</i> , pp. 5804-5808.		
Xiong, Wenjun		City Univ. of Hong Kong
Ho, Daniel W. C.		City Univ. of Hong Kong
17:30-17:50		ThC16.4
<i>Quantized Consensus Over Expander Networks and Communication Energy Minimization</i> , pp. 5809-5814.		
Li, Tao		Chinese Acad. of Sciences
Xie, Lihua		Nanyang Tech. Univ.
Fu, Minyue		Univ. of Newcastle
Zhang, Ji-Feng		Chinese Acad. of Sciences
17:50-18:10		ThC16.5

Agents Design for Distributed Consensus Over Networks of Fixed and Switching Topologies, pp. 5815-5820.

Wang, Jing
Elia, Nicola

Iowa State Univ.
Iowa State Univ.

18:10-18:30

ThC16.6

Solving the Rendezvous Problem for Multi-Agent Systems Using Contraction Theory, pp. 5821-5826.

Russo, Giovanni
Di Bernardo, Mario

Univ. of Naples "Federico II"
Univ. of Naples Federico II

ThC17

5H

Separation and Scheduling in Networked Control (Regular Session)

Chair: Liu, Steven
Co-Chair: Hirche, Sandra

Univ. of Kaiserslautern
Tech. Univ. Muenchen

16:30-16:50

ThC17.1

On Separation Principle for a Class of Networked Control Systems, pp. 5827-5831.

Wu, Dongxiao
Wu, Jun
Chen, Sheng

Zhejiang Univ.
Zhejiang Univ.
Univ. of Southampton

16:50-17:10

ThC17.2

On LQG Joint Optimal Scheduling and Control under Communication Constraints, pp. 5832-5838.

Molin, Adam
Hirche, Sandra

Tech. Univ. München
Tech. Univ. München

17:10-17:30

ThC17.3

Optimal Control and Scheduling of Networked Control Systems, pp. 5839-5844.

Görges, Daniel
Izák, Michal
Liu, Steven

Univ. of Kaiserslautern
Univ. of Kaiserslautern
Univ. of Kaiserslautern

17:30-17:50

ThC17.4

A Mechanism Design Approach to the Stabilization of Networked Dynamical Systems, pp. 5845-5850.

Galbusera, Luca
Gatti, Nicola
Romani, Carlo

Pol. di Milano
Pol. di Milano
Pol. di Milano

17:50-18:10

ThC17.5

Robust Quasi-Decentralized Networked Control of Process Systems, pp. 5851-5856.

Sun, Yulei
El-Farra, Nael H.

Univ. of California, Davis
Univ. of California, Davis

18:10-18:30

ThC17.6

Content Distribution by Multiple Multicast Trees and Intersession Cooperation: Optimal Algorithms and Approximations, pp. 5857-5862.

Zheng, Xiaoying
Cho, Chunglae
Xia, Ye

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

ThC18

5I

Control of Communication Systems (Regular Session)

Chair: Giarre, Laura
Co-Chair: Lemmon, Michael

Univ. Di Palermo
Univ. of Notre Dame

16:30-16:50

ThC18.1

An Event-Triggered Distributed Primal-Dual Algorithm for Network Utility Maximization, pp. 5863-5868.

Wan, Pu
Lemmon, Michael

Univ. of Notre Dame
Univ. of Notre Dame

16:50-17:10

ThC18.2

On Performance Limitations of Congestion Control, pp. 5869-5876.

Sandberg, Henrik
Hjalmarsson, Håkan
Jonsson, Ulf T.
Karlsson, Gunnar
Johansson, Karl H.

Royal Inst. of Tech. (KTH)
Royal Inst. of Tech.
Royal Inst. of Tech. (KTH)
Royal Inst. of Tech.
Royal Inst. of Tech.

17:10-17:30

ThC18.3

Resource Sharing Optimality in WiFi Infrastructure Networks, pp. 5877-5882.

Giarre, Laura
Tinnirello, Ilenia
Neglia, Giovanni

Univ. Di Palermo
Univ. di Palermo
INRIA Sophia Antipolis Méditerranée

17:30-17:50

ThC18.4

Event-Based Control Using Quadratic Approximate Value Functions, pp. 5883-5888.

Cogill, Randy

Univ. of Virginia

17:50-18:10

ThC18.5

Stochastic Control Over Finite Capacity Channels: Causality and Feedback, pp. 5889-5894.

Charalambous, Charalambos D.
Kourtellis, Christos
Stavrou, Photios

Univ. of Cyprus
Univ. of Cyprus
Univ. of Cyprus

18:10-18:30		ThC18.6
<i>Uplink Power Control Via Adaptive HMM Estimation</i> , pp. 5895-5900.		
Zhang, Huan		Deakin Univ.
Pathirana, Pubudu N.		Deakin Univ.
ThTCTu		Yellow River
Finite State Markov Processes: Modeling and Control (Tutorial Session)		
Chair: Brockett, Roger		Harvard Univ.
Co-Chair: Meyn, Sean		Univ. of Illinois
16:30-16:50		ThTCTu.1
<i>A Poisson Counter Approach to Sample Path Representations (I)*</i> .		
Brockett, Roger		Harvard Univ.
16:50-17:30		ThTCTu.2
<i>Stochastic Chemical Kinetics Related to Molecular Biology (I)*</i> .		
Khammash, Mustafa H.		Univ. of California at Sta. Barbara
17:30-18:10		ThTCTu.3
<i>Lyapunov Functions, Value Functions, Performance Bounds (I)*</i> .		
Meyn, Sean		Univ. of Illinois
18:10-18:30		ThTCTu.4
<i>Explicitly Soluble Markov Optimization Problems (I)*</i> .		
Brockett, Roger		Harvard Univ.
ThCIn1		Mandarin Hall
Nonlinear Control and Realization (Interactive Session)		
16:50-18:10		ThCIn1.1
<i>Multi-Realization of Nonlinear Systems</i> , pp. 5901-5905.		
Su, Steven W.		Univ. of Tech. Sydney
Anderson, Brian D.O.		Australian National Univ.
Chen, Weidong		Shanghai Jiao Tong Univ.
Nguyen, Hung		Univ. of Tech. Sydney
16:50-18:10		ThCIn1.2
<i>A Hamiltonian Approach to Moments-Based Font Recognition</i> , pp. 5906-5911.		
Casagrande, Daniele		Univ. of Udine
Sassano, Mario		Imperial Coll. London
Astolfi, Alessandro		Imperial Coll. & Univ. of Rome
16:50-18:10		ThCIn1.4
<i>Metrics on the Space of Bounded Keplerian Orbits and Space Situational Awareness</i> , pp. 5912-5917.		
Maruskin, Jared M.		San Jose State Univ.
Scheeres, Daniel		The Univ. of Michigan
16:50-18:10		ThCIn1.5
<i>A New Fractional-Order Chaotic System and Its Synchronization Control</i> , pp. 5918-5922.		
Shan, Liang		Nanjing Univ. of Science & Tech.
Liu, Zhong		Nanjing Univ. of Science & Tech.
Li, Jun		Nanjing Univ. of Science & Tech.
Zhiquan, Wang		Nanjing Univ. of Science & Tech.
16:50-18:10		ThCIn1.6
<i>Existence and Representation of Stabilizing Solutions to Generalized Algebraic Riccati Equations</i> , pp. 5923-5928.		
Zhang, Xian		Heilongjiang Univ.
Zhong, Guang-Ping		Heilongjiang Univ.
Tan, Chong		Heilongjiang Univ.
16:50-18:10		ThCIn1.7
<i>Reachability Analysis for Continuous Systems under Shared Control: Application to User-Interface Design</i> , pp. 5929-5934.		
Matni, Nikolai		Univ. of British Columbia
Oishi, Meeko		Univ. of British Columbia
16:50-18:10		ThCIn1.8
<i>Realization Theory of Nash Systems</i> , pp. 5935-5940.		
Nemcova, Jana		Centrum Wiskunde & Informatica
Petreczky, Mihaly		Maastricht Univ.
van Schuppen, Jan H.		CWI
16:50-18:10		ThCIn1.9
<i>Combination of Lyapunov Functions and Density Functions for Stability of Rotational Motion</i> , pp. 5941-5946.		
Vasconcelos, José Fernandes		Inst. Superior Técnico
Rantzer, Anders		Lund Univ.
Silvestre, Carlos		Inst. Superior Técnico
Oliveira, Paulo Jorge		Inst. Superior Técnico
16:50-18:10		ThCIn1.10
<i>Region of Attraction Estimates for Polynomial Systems</i> , pp. 5947-5952.		
Valmórbida, Giórgio		LAAS-CNRS

Tarbouriech, Sophie Garcia, Germain	LAAS-CNRS LAAS-CNRS
16:50-18:10 <i>Robust H-Infinity Optimal Signal Predictive Quantization</i> , pp. 5953-5958.	ThCIn1.11
Chen, Yuepeng Zhang, Jingxin Li, Shenpeng Chai, Li	wuhan Univ. of Tech. Monash Univ. Monash Univ. Wuhan Univ. of Science and Tech.
16:50-18:10 <i>Precision IPACS in the Presence of Dynamic Uncertainty</i> , pp. 5959-5964.	ThCIn1.12
Kim, Dohee Mackunis, William Fitz-Coy, Norman Dixon, Warren E.	Univ. of Florida Univ. of Florida Univ. of Florida Univ. of Florida
16:50-18:10 <i>ISS Feedback Redesign for Disturbance Attenuation in Continuous Stirred Tank Reactors</i> , pp. 5965-5970.	ThCIn1.13
Di Ciccio, Maria Paola Pepe, Pierdomenico Foscolo, Pier Ugo	Univ. of L'Aquila Univ. of L' Aquila Univ. of L'Aquila
ThCIn2	Mandarin Hall
Robotics and Motion Control (Interactive Session)	
16:50-18:10 <i>Velocity Space Approach with Region Analysis and Look-Ahead Verification for Robot Navigation</i> , pp. 5971-5976.	ThCIn2.1
Lian, Feng-Li	National Taiwan Univ.
16:50-18:10 <i>Path Planning for Inchworm-Like Robot Moving in Narrow Space</i> , pp. 5977-5984.	ThCIn2.2
Jiang, Yong Wang, Hongguang Fang, Lijin	sia sia sia
16:50-18:10 <i>Robust Tube-Based MPC for Constrained Mobile Robots under Slip Conditions</i> , pp. 5985-5990.	ThCIn2.3
Gonzalez, Ramon Fiacchini, Mirko Guzman, Jose Luis Alamo, Teodoro	Univ. OF ALMERIA Univ. de Sevilla Univ. of Almeria Univ. de Sevilla
16:50-18:10 <i>A Multi-Mode Sequential Flocking Strategy for Motion Control of Multiple Mobile Robots in Obstacle Environment</i> , pp. 5991-5996.	ThCIn2.4
Cheng, Lei Zhu, Quanmin Wang, Yongji	Wuhan Univ. of Science and Tech. Univ. of the West of England Hauzhong Univ.
16:50-18:10 <i>Receding Horizon Temporal Logic Planning for Dynamical Systems</i> , pp. 5997-6004.	ThCIn2.6
Wongpiromsarn, Tichakorn Topcu, Ufuk Murray, Richard M.	California Inst. of Tech. California Inst. of Tech. California Inst. of Tech.
16:50-18:10 <i>Experimental Investigation of Teleoperation Performance for Miniature Rotorcraft</i> , pp. 6005-6010.	ThCIn2.7
Andersh, Jon Mettler, Bernard Papanikolopoulos, Nikolaos	Univ. of Minnesota Univ. of Minnesota Univ. of Minnesota
16:50-18:10 <i>An Active Visual Servoing Strategy for Nonholonomic Mobile Robots</i> , pp. 6011-6016.	ThCIn2.8
Liu, Xi Fang, Yongchun Zhang, Xuebo	Nankai Univ. Nankai Univ. Nankai Univ.
16:50-18:10 <i>An Improved Wall-Following Method for Escaping from Local Minimum in Artificial Potential Field Based Path Planning</i> , pp. 6017-6022.	ThCIn2.9
Zhu, Yi Zhang, Tao Song, Jingyan	Tsinghua Univ. Tsinghua Univ. Tsinghua Univ.
16:50-18:10 <i>Identification of a Parallel Manipulator's Pose Using a Parallelogram</i> , pp. 6023-6027.	ThCIn2.10
Zhang, Shu-Ping Ding, Y S Hao, Kuangrong	Donghua Univ. Donghua Univ. Donghua Univ.
16:50-18:10 <i>Comparison of Residual-Vibration and Energy-Minimizing Control Methods for Command Generation</i> , pp. 6028-6033.	ThCIn2.11
Singhose, William	Georgia Inst. of Tech.

Vela, Adan	Georgia Inst. of Tech.
Kim, Dooroo	Georgia Inst. of Tech.
16:50-18:10	ThCIn2.12
<i>Nonlinear Modeling and Control for Electro Hydraulic Servo System in Pipe Expanding Process</i> , pp. 6034-6039.	
Jing, Ni	hangzhou dianzi Univ.
Lihui, Peng	zhejiang gongshang Univ.
16:50-18:10	ThCIn2.13
<i>3D I-SLSJF: A Consistent Sparse Local Submap Joining Algorithm for Building Large-Scale 3D Map</i> , pp. 6040-6045.	
Hu, Gibson	The Univ. of Tech. Sydney
Huang, Shoudong	Univ. of Tech. Sydney
Dissanayake, Gamini	Univ. of Tech. Sydney
16:50-18:10	ThCIn2.14
<i>An Advanced Selective Hydraulic Control System for the Heavy-Duty Rough Grinding Machine</i> , pp. 6046-6051.	
Li, Wan-zhou	Tsinghua Univ. Beijing,PR China
Wang, Jingchun	Tsinghua Univ.
Yang, Feng	Tsinghua Univ.
Zou, Guobin	Tsinghua Univ.
16:50-18:10	ThCIn2.15
<i>Tracking Multiple Fluorescent Particles in Two Dimensions in a Confocal Microscope</i> , pp. 6052-6057.	
Shen, Zhaolong	Boston Univ.
Andersson, Sean	Boston Univ.
16:50-18:10	ThCIn2.16
<i>H-Infinity Controller Design for High-Performance Scanning Tunneling Microscope</i> , pp. 6058-6063.	
Ahmad, Irfan	UJF
Voda, Alina	UJF
Besancon, Gildas	GIPSA-Lab. Grenoble INP
16:50-18:10	ThCIn2.17
<i>Motion Generation for the Upper Body of Humanoid Robot</i> , pp. 6064-6069.	
Xing, Dengpeng	shanghai jiaotong Univ.
Su, Jianbo	Shanghai Jiaotong Univ.
16:50-18:10	ThCIn2.18
<i>Stable Hybrid Remote Manipulation System with Adaptive Environment Observer Using Time-Scale Transformation</i> , pp. 6070-6077.	
Kakizoe, Yuki	Nara Inst. of Science and Tech.
Nakamura, Hisakazu	Nara Inst. of Science &Tech.
Nishitani, Hirokazu	Nara Inst. of Sci. & Tech.
ThCIn3 Mandarin Hall	
Sliding Mode Control and Observers (Interactive Session)	
16:50-18:10	ThCIn3.1
<i>A New Modeling Reference Direct Adaptive Sliding Mode Control for Electromechanical Actuator</i> , pp. 6078-6082.	
Li, Hao	Beijing Inst. of Tech.
Dou, Lihua	Beijing Inst. of Tech.
Su, Zhong	Beijing Information Science & Tech. Univ.
Chen, Jie	Beijing Inst. of Tech.
16:50-18:10	ThCIn3.2
<i>Global Tracking Output-Feedback Sliding Mode Control Design Via Norm Estimators and Variable High Gain Observer</i> , pp. 6083-6088.	
Peixoto, Alessandro Jacoud	Federal Center of Tech. Celso Suckow da Fonseca
Oliveira, Tiago Roux	COPPE/UFRJ
Hsu, Liu	COPPE/UFRJ
16:50-18:10	ThCIn3.4
<i>Back-Stepping Sliding Mode Control for Missile Systems Via Quaternions</i> , pp. 6089-6094.	
Zhu, Zheng	Beijing Inst. of Tech.
Xia, Yuanqing	Beijing Inst. of Tech.
Fu, Mengyin	Department of Automatic Control, Beijing Inst. ofTechnology
16:50-18:10	ThCIn3.5
<i>Output-Based Finite Time Control of LTI Systems with Matched Perturbations Using HOSM</i> , pp. 6095-6100.	
Angulo Ballesteros, Marco Tulio	National Autonomous Univ. of Mexico
Fridman, Leonid M.	National Autonomous Univ.
16:50-18:10	ThCIn3.6
<i>Observer Design in the Presence of Periodic Output Disturbances by Mixing of past and Present Output Data</i> , pp. 6101-6106.	
Grip, Hlvard Fjcr	NTNU
Saberi, Ali	Washington State Univ.
16:50-18:10	ThCIn3.7
<i>Positive Observers for Positive Interval Linear Discrete-Time Delay Systems</i> , pp. 6107-6112.	
Li, Ping	The Univ. of HongKong
Lam, James	The Univ. of Hong Kong
Shu, Zhan	National Univ. of Ireland, Maynooth
16:50-18:10	ThCIn3.8

<i>Exact Unknown-State, Unknown-Input Reconstruction: A Geometric Framework for Discrete-Time Systems</i> , pp. 6113-6118.	Univ. of Bologna
Marro, Giovanni	Univ. of Bologna
Zattoni, Elena	
16:50-18:10	ThCIn3.9
<i>Robust Observer Design for a Class of Nonlinear Systems Using Filtering and Dynamic Scaling</i> , pp. 6119-6124.	
Ortner, Peter	Johannes Kepler Univ.
Astolfi, Alessandro	Imperial Coll. & Univ. of Rome
16:50-18:10	ThCIn3.10
<i>Cooperative Observers for Nonlinear Systems</i> , pp. 6125-6130.	
Aviles, Jesus D.	Univ. Nacional Autónoma de México
Moreno, Jaime A.	Univ. Nacional Autonomo
16:50-18:10	ThCIn3.11
<i>Observer Design for Inherently Nonlinear Systems with Lower Triangular Structure</i> , pp. 6131-6136.	
Ibrir, Salim	Univ. of Trinidad and Tobago
16:50-18:10	ThCIn3.12
<i>Nonlinear Observer Design for Discrete MIMO Systems with Unknown Time Delay</i> , pp. 6137-6142.	
Na, Jing	Beijing Inst. of Tech.
Herrmann, Guido	Univ. of Bristol
Ren, Xuemei	Beijing Inst. of Tech.
Barber, Phil	Jaguar and Land Rover Ltd
16:50-18:10	ThCIn3.13
<i>Speed and Load Torque Observer for Rotating Machines</i> , pp. 6143-6148.	
Shah, Dhruv	Univ. of paris sud 11
Ortega, Romeo	LSS-SUPELEC
Astolfi, Alessandro	Imperial Coll. & Univ. of Rome

ThCIn4	Mandarin Hall
Stability of Linear Systems (Interactive Session)	

16:50-18:10	ThCIn4.1
<i>Further Results on Stability and Exact Observability of Linear Stochastic Systems</i> , pp. 6149-6153.	
Hou, Ting	Shandong Univ. of Science and Tech.
Zhang, Weihai	Shandong Univ. of Science and Tech.
Ma, Hongji	Shandong Univ. of Science and Tech.
16:50-18:10	ThCIn4.3
<i>Fixed Order Multivariable Discrete-Time Control</i> , pp. 6154-6159.	
Keel, L. H.	Tennessee State Univ.
Bhattacharyya, Shankar P.	Texas A & M Univ.
16:50-18:10	ThCIn4.4
<i>Rank Stability Radius for a Matrix with Structured Scalar Perturbations</i> , pp. 6160-6165.	
Xing, Wei	Coll. of Science, Northeastern Univ.
Yan, Weiyong	Curtin Univ.
Liu, Wan Quan	Curtin Univ. of Tech.
16:50-18:10	ThCIn4.5
<i>Stability and Robustness Conditions Using Frequency Dependent Half Planes</i> , pp. 6166-6171.	
Jacobsson, Krister	California Inst. of Tech.
Andrew, Lachlan L. H.	Swinburne Univ. of Tech.
Tang, Ao	Cornell Univ.
16:50-18:10	ThCIn4.6
<i>LMI Stability Constraints for Disjoint Stability Regions Using Rouché Theorem</i> , pp. 6172-6176.	
Dolgin, Yuri	Tech. - Israel Inst. of Tech.
Zeheb, Ezra	Tech. Inst. of Tech.
16:50-18:10	ThCIn4.7
<i>An Optimal Design of Symmetric H Infinity Static Output Feedback Controller Using LMI for Collocated Second-Order Linear System</i> , pp. 6177-6182.	
Nagashio, Tomoyuki	Univ. of Electro-Communications
Kida, Takashi	Univ. of Electro-Communications

ThCIn5	Mandarin Hall
Biological Systems (Interactive Session)	

16:50-18:10	ThCIn5.1
<i>Compound Control — Adaptation to Multiple Environmental Changes</i> , pp. 6183-6188.	
Tanaka, Reiko	Imperial Coll. London
Gaohua, Lu	Inst. of Physical and Chem. Res.
Shimoda, Shingo	RIKEN
Kimura, Hidenori	The Inst. of Physical and Chemical Res. (RIKEN)
16:50-18:10	ThCIn5.2
<i>Observer-Based Identification of a Multi-Output Feedforward Loop from Gene Expression Data</i> , pp. 6189-6194.	
Cacace, Filippo	Univ. Campus Biomedico di Roma
Germani, Alfredo	Univ. dell'Aquila

Palumbo, Pasquale	IASI-CNR
16:50-18:10	ThCIn5.3
<i>A Bottleneck Assigned Binary Ant System for Multimodal Optimization</i> , pp. 6195-6200.	
Zhao, Jun	Ningbo Univ.
Yan, Chenyang	Ningbo Univ.
16:50-18:10	ThCIn5.5
<i>Analysis of HIV Mutation Dynamics for a Linear Mutation Tree</i> , pp. 6201-6206.	
dos Santos Ferreira, Jorge	National Univ. of Ireland-Maynooth
O'Donoghue, Yoann	National Univ. of Ireland-Maynooth, Hamilton Inst.
Middleton, Richard H.	National Univ. of Ireland Maynooth
16:50-18:10	ThCIn5.6
<i>A Closed Loop Musculoskeletal Model of Postural Coordination Dynamics</i> , pp. 6207-6212.	
Bonnet, Vincent	Lirmm
Fraisse, Philippe	Lirmm
Ramdani, Nacim	INRIA Sophia Antipolis Méditerranée
Lagarde, Julien	EDM
Ramdani, Sofiane	EDM
Bardy, Benoit	EDM
16:50-18:10	ThCIn5.7
<i>Modeling in Microbial Batch Culture and Its Parameter Identification</i> , pp. 6213-6217.	
Gong, Zhaohua	Shandong Inst. of Business and Tech.
Liu, Chongyang	Shandong Inst. of Business and Tech.
Feng, Enmin	Dalian Univ. of Tech.
ThCIn6	Mandarin Hall
Optimization and Applications (Interactive Session)	
16:50-18:10	ThCIn6.1
<i>On an Anytime Algorithm for Control</i> , pp. 6218-6223.	
Gupta, Vijay	Univ. of Notre Dame
16:50-18:10	ThCIn6.2
<i>Periodic Power Management Schemes for Real-Time Event Streams</i> , pp. 6224-6231.	
Huang, Kai	ETH Zurich
Santinelli, Luca	Scuola Superiore Sant'Anna of Pisa
Chen, Jian-Jia	ETH Zurich
Thiele, Lothar	ETH Zurich
Buttazzo, Giorgio	Scuola Superiore Sant'Anna of Pisa
16:50-18:10	ThCIn6.3
<i>Optimal and Adaptive Battery Discharge Strategies for Cyber-Physical Systems</i> , pp. 6232-6237.	
Zhang, Fumin	Georgia Inst. of Tech.
Shi, Zhenwu	Georgia Inst. of Tech.
16:50-18:10	ThCIn6.4
<i>On Lyapunov Sampling for Event-Driven Controllers</i> , pp. 6238-6243.	
Velasco, Manel	Tech. Univ. of Catalonia
Marti, Pau	Tech. Univ. of Catalonia
Bini, Enrico	Scuola Superiore Sant'Anna
16:50-18:10	ThCIn6.5
<i>LQ Optimal Inventory Control for Multi-Supplier Periodic-Review Systems with Disparate Lead-Time Delay</i> , pp. 6244-6249.	
Ignaciuk, Przemyslaw	Tech. Univ. of Lodz
Bartoszewicz, Andrzej	Tech. Univ. of Lodz
16:50-18:10	ThCIn6.6
<i>A Simplified Scatter Search for a Special Single Machine Scheduling Problem to Minimize Total Tardiness</i> , pp. 6250-6255.	
Wang, Xianpeng	Northeastern Univ.
Tang, Lixin	Northeastern Univ.
16:50-18:10	ThCIn6.7
<i>A Scatter Search Based Heuristic for the Balancing of Parallel Assembly Lines</i> , pp. 6256-6261.	
Guo, Qingxin	Northeastern Univ.
Tang, Lixin	Northeastern Univ.
16:50-18:10	ThCIn6.8
<i>Model Driven Design in Industrial Automation</i> , pp. 6262-6267.	
Estévez, Elisabet	Univ. del País Vasco
Sarachaga, M ^ª Isabel	Univ. del País Vasco (UPV/EHU)
Perez, Federico	Univ. del País Vasco (UPV/EHU)
Orive, Dario	Univ. del País Vasco
Marcos, Marga	Univ. del País Vasco
16:50-18:10	ThCIn6.9
<i>Solve the Optimum Steelmaking Charge Plan with Unknown Charge Number Using Improved DPSO</i> , pp. 6268-6273.	
Xue, Yuncan	Hohai Univ.
Zheng, Dongliang	Hohai Univ.
Liu, Fei	Jiangnan Univ.

Yang, Qiwen	Hohai Univ.
16:50-18:10	ThCIn6.11
<i>Modeling and Optimizing Military Air Operation</i> , pp. 6274-6279.	
Faied, Mariam	Univ. of Michigan- Ann Arbor
Girard, Anouck	Univ. of Michigan, Ann Arbor
16:50-18:10	ThCIn6.12
<i>Approximate Robust Optimization of Time-Periodic Stationary States with Application to Biochemical Processes</i> , pp. 6280-6285.	
Houska, Boris	Univ. of Leuven
Logist, Filip	Katholieke Univ. Leuven
Van Impe, Jan F.M.	Katholieke Univ. Leuven
Diehl, Moritz	Katholieke Univ. Leuven
16:50-18:10	ThCIn6.13
<i>On Trajectory Optimization for Active Sensing in Gaussian Process Models</i> , pp. 6286-6292.	
Le Ny, Jerome	Univ. of Pennsylvania
Pappas, George J.	Univ. of Pennsylvania

Fr1PL	Grand Ballroom
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New Opportunities for Control: Quantum Internal Model Principle and Decoherence Control (Plenary Session)	
08:00-08:50	Fr1PL.1
<i>New Opportunities for Control: Quantum Internal Model Principle and Decoherence Control*</i> .	
Tarn, Tzyh-Jong	Washington Univ.

Fr2PL	Grand Ballroom
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Mean Field Stochastic Control (Bode Lecture) (Plenary Session)	
09:00-09:50	Fr2PL.1
<i>Mean Field Stochastic Control*</i> .	
Caines, Peter E.	McGill Univ.

FrA01	3D
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Lyapunov Methods I (Regular Session)	
Chair: Polis, Michael P.	Oakland Univ.
Co-Chair: Krstic, Miroslav	Univ. of California at San Diego
10:10-10:30	FrA01.1
<i>Nonlinear Stabilization through Long Input Delay - Part II: The Strict-Feedforward Class</i> , pp. 6293-6298.	
Krstic, Miroslav	Univ. of California at San Diego
10:30-10:50	FrA01.2
<i>On Global Lyapunov Characterization of Multi-Stable Nonlinear Systems</i> , pp. 6299-6304.	
Efimov, Denis	Inst. for Problems of Mechanical Eng.
10:50-11:10	FrA01.3
<i>Extending Interconnection and Damping Assignment Passivity-Based Control (IDA-PBC) to Underactuated Mechanical Systems with Nonholonomic Pfaffian Constraints: The Mobile Inverted Pendulum Robot</i> , pp. 6305-6310.	
Muralidharan, Vijay	Indian Inst. of Tech. Madras
Maruthi, T .R	Indian Inst. of Tech. Madras
Mahindrakar, Arun D.	Indian Inst. of Tech. Madras
11:10-11:30	FrA01.4
<i>Network Stability within Visual Cortex: A Lyapunov Function Approach</i> , pp. 6311-6316.	
Ulinski, Philip	Univ. of Chicago
11:30-11:50	FrA01.5
<i>Lasalle's Invariant Principle Via Vector Lyapunov Functions of a Class of Discontinuous Systems</i> , pp. 6317-6320.	
Cheng, Gui-fang	Zhengzhou Univ.
Mu, Xiaowu	Zhengzhou Univ.
11:50-12:10	FrA01.6
<i>The Steering Control of Vehicle Dynamics Via a Lyapunov Redesign Approach</i> , pp. 6321-6326.	
Chung, Wen-Ching	National Chiao Tung Univ.
Liaw, Der-Cherng	National Chiao Tung Univ.
Chang, Shih-Tse	National Chiao Tung Univ.

FrA02	3E
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Model Predictive Control: Stability and Robustness (Regular Session)	
Chair: Lygeros, John	ETH Zurich
Co-Chair: Bemporad, Alberto	Univ. of Siena
10:10-10:30	FrA02.1
<i>A Multiscale Approximation Scheme for Explicit Model Predictive Control with Stability, Feasibility, and Performance Guarantees</i> , pp. 6327-6332.	
Summers, Sean	ETH Zurich
Jones, Colin Neil	ETH Zurich
Lygeros, John	ETH Zurich
Morari, Manfred	ETH Zurich

10:30-10:50		FrA02.2
<i>Scenario-Based Model Predictive Control of Stochastic Constrained Linear Systems</i> , pp. 6333-6338.		
Bernardini, Daniele		Univ. of Siena
Bemporad, Alberto		Univ. of Siena
10:50-11:10		FrA02.3
<i>Robust Constrained Model Predictive Control of Piecewise Linear Systems with Bounded Additive Disturbances</i> , pp. 6339-6344.		
Li, Shaoyuan		Shanghai Jiao Tong Univ.
Zou, Yuanyuan		Shanghai Jiao Tong Univ.
11:10-11:30		FrA02.4
<i>Verifying Stability of Approximate Explicit MPC</i> , pp. 6345-6350.		
Hovd, Morten		Norwegian Univ. of Sci & Tech.
Scibilia, Francesco		Norwegian Univ. of Science & Tech.
Maciejowski, Jan M.		Univ. of Cambridge
Olaru, Sorin		Supelec
11:30-11:50		FrA02.5
<i>Model Predictive Control of Linear Periodic Systems - a Unified Framework Including Control of Multirate and Multiplexed Systems</i> , pp. 6351-6358.		
Gondhalekar, Ravi		Osaka Univ.
Jones, Colin Neil		ETH Zurich
11:50-12:10		FrA02.6
<i>On Stochastic Receding Horizon Control with Bounded Control Inputs</i> , pp. 6359-6364.		
Hokayem, Peter		ETH Zurich
Chatterjee, Debasish		ETH Zurich
Lygeros, John		ETH Zurich

FrA03		3C
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LMI Techniques for Switched Systems (Regular Session)	
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Chair: Trofino, Alexandre		Federal Univ. of Santa Catarina
Co-Chair: Daafouz, Jamal		CRAN -INPL
10:10-10:30		FrA03.1
<i>Switching Rule Design for Switched Dynamic Systems with Affine Vector Fields</i> , pp. 6365-6370.		
Trofino, Alexandre		Federal Univ. of Santa Catarina
Assmann, Diego		UFSC
Scharlau, Cesar Cataldo		Univ. Federal de Santa Catarina (UFSC)
Coutinho, Daniel Ferreira		Pont. Univ. Catolica do Rio Grande
10:30-10:50		FrA03.2
<i>Stabilization of Continuous-Time Singularly Perturbed Switched Systems</i> , pp. 6371-6376.		
Mallocci, Ivan		CRAN
Daafouz, Jamal		CRAN, UMR CNRS - Nancy Univ.
lung, Claude		Inst. National Pol. de Lorraine
10:50-11:10		FrA03.3
<i>Full Order Dynamic Output Feedback Hoo Control for Continuous-Time Switched Linear Systems</i> , pp. 6377-6382.		
Deaecto, Grace S.		UNICAMP
Geromel, Jose C.		UNICAMP
11:10-11:30		FrA03.4
<i>Exponential \mathcal{H}_∞ Static Output Feedback Control of Switched Systems with Average Dwell-Time and Time-Varying Uncertainties</i> , pp. 6383-6388.		
Qiu, Jianbin		USTC & CityU Joint Advanced Res. Center
Feng, Gang		City Univ. of Hong Kong
Gao, Huijun		Harbin Inst. of Tech.
Fan, Yuan		USTC & CityU Joint Advanced Res. Center
11:30-11:50		FrA03.5
<i>Model Reduction for Markovian Jump Systems with Time-Delay and Uncertain Switching Probabilities</i> , pp. 6389-6394.		
Zhao, Huanyu		Nanjing Univ. of Science and Tech.
Chen, Qingwei		Nanjing Univ. of Science and Tech.
Xu, Shengyuan		The Univ. of Hong Kong
11:50-12:10		FrA03.6
<i>Stability and Stabilization for a Class of Discrete-Time Piecewise Affine Singular Systems</i> , pp. 6395-6400.		
Ma, Shuping		Shandong Univ.
Boukas, El-Kebir		Ec. Pol. de Montreal

FrA04		3A
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Algebraic and Geometric Methods (Regular Session)	
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Chair: D'Andrea, Raffaello		ETH
Co-Chair: Trumpf, Jochen		The Australian National Univ.
10:10-10:30		FrA04.1
<i>Measures of Unobservability</i> , pp. 6401-6406.		
Krener, Arthur J		Naval Postgraduate School
Ide, Kayo		Univ. of Maryland

10:30-10:50		FrA04.2
	<i>Nonlinear Attitude Observers on SO(3) for Complementary and Compatible Measurements: A Theoretical Study</i> , pp. 6407-6412.	
	Mahony, Robert Hamel, Tarek Trumpf, Jochen Lageman, Christian	Australian National Univ. Univ. de Nice Sophia Antipolis The Australian National Univ. Univ. of Liege
10:50-11:10		FrA04.3
	<i>A Quantitative Measure of Observability and Controllability</i> , pp. 6413-6418.	
	Kang, Wei Xu, Liang	Naval Postgraduate School Naval Res. Lab.
11:10-11:30		FrA04.4
	<i>A Limiting Property of the Matrix Exponential with Application to Multi-Loop Control</i> , pp. 6419-6425.	
	Trimpe, Sebastian D'Andrea, Raffaello	ETH Zurich ETH
11:30-11:50		FrA04.5
	<i>Variety of Linear Continuous Time Systems</i> , pp. 6426-6431.	
	Zhang, Hui Sun, Youxian	Zhejiang Univ. Zhejiang Univ.
11:50-12:10		FrA04.6
	<i>A Floquet-Like Factorization for Linear Periodic Systems</i> , pp. 6432-6437.	
	Jikuya, Ichiro Hodaka, Ichijo	Nagoya Univ. Nagoya Univ.
FrA05		3J
Distributed Control and Differential Games (SIAM Session)		
	Chair: Hintermueller, Michael Co-Chair: Sarlette, Alain	Humboldt-Univ. of Berlin Univ. of Liege (Belgium)
10:10-10:30		FrA05.1
	<i>Consensus on Homogeneous Manifolds</i> , pp. 6438-6443.	
	Sarlette, Alain Sepulchre, Rodolphe J.	Univ. of Liege (Belgium) Univ. de Liege
10:30-10:50		FrA05.2
	<i>A Problem of Guarding Line Segment</i> , pp. 6444-6447.	
	Rzymowski, Witold	Lublin Univ. of Tech.
10:50-11:10		FrA05.3
	<i>Vector-Valued Hyperbolic System and Applications to the Complex Networks of Strings</i> , pp. 6448-6453.	
	Xu, Gen Qi Zhang, Yaxuan	Tianjin Univ. School of Science, Tianjin Univ.
11:10-11:30		FrA05.4
	<i>Goal-Oriented Adaptivity in Control Constrained Optimal Control of Partial Differential Equations</i> , pp. 6454-6459.	
	Hintermueller, Michael Hoppe, Ronald H. W.	Humboldt-Univ. of Berlin Univ. of Houston
11:30-11:50		FrA05.5
	<i>Mixed H2/Hinf Control Via Nonsmooth Optimization</i> , pp. 6460-6465.	
	Apkarian, Pierre Noll, Dominikus Rondepierre, Aude	UPS Univ. Paul Sabatier Univ. of Toulouse, INSA.
11:50-12:10		FrA05.6
	<i>Overcoming Limitations of Game-Theoretic Distributed Control</i> , pp. 6466-6471.	
	Marden, Jason Wierman, Adam	California Inst. of Tech. California Inst. of Tech.
FrA06		3G
Robotics (Regular Session)		
	Chair: Shiriaev, Anton Co-Chair: Kim, Sang Hee	NTNU/Umea Univ. Kumoh National Inst. of Tech.
10:10-10:30		FrA06.1
	<i>Statistical Methods for Estimating the Dynamical Parameters of Manipulators</i> , pp. 6472-6477.	
	Muradore, Riccardo Foroncelli, Roberto Fiorini, Paolo	Univ. of Verona Univ. of Verona Univ. of Verona
10:30-10:50		FrA06.2
	<i>Motion Control for an Underwater Robotic Fish with Two Undulating Long-Fins</i> , pp. 6478-6483.	
	Shang, Liuji Wang, Shuo Tan, Min Dong, Xiang	Inst. of Automation, Chinese Acad. of Sciences Chinese Acad. of Sciences Inst. of Automation, Chinese Acad. of Sciences Inst. of Automation, Chinese Acad. of Sciences
10:50-11:10		FrA06.3

<i>Simultaneous Localization and Sampled Environment Mapping</i> , pp. 6484-6489.	
Sun, Rongchuan Ma, Shugen Li, Bin Wang, Yuechao	Shenyang Inst. of Automation, the Chinese Acad. of Science Ritsumeikan Univ. Shenyang Inst. of Automation, the Chinese Acad. of Science Shenyang Inst. of Automation, Chinese Acad. of Sciences
11:10-11:30	FrA06.4
<i>Transverse Linearization for Mechanical Systems with Passive Links, Impulse Effects, and Friction Forces</i> , pp. 6490-6495.	
Freidovich, Leonid Shiriaev, Anton	Umeå Univ. NTNU/Umea Univ.
11:30-11:50	FrA06.5
<i>Nonlinear Attitude Estimation Using Active Vision and Inertial Measurements</i> , pp. 6496-6501.	
Brás, Sérgio Cunha, Rita Vasconcelos, José Fernandes Silvestre, Carlos Oliveira, Paulo Jorge	Inst. Superior Técnico Inst. Superior Técnico Inst. Superior Técnico Inst. Superior Técnico Inst. Superior Técnico
11:50-12:10	FrA06.6
<i>Modeling Neural Control of Robotic Fish with Pectoral Fins Using a CPG-Based Network</i> , pp. 6502-6507.	
Wang, Ming Yu, Junzhi Tan, Min	Inst. of Automation, Chinese Acad. of Sciences Inst. of Automation, Chinese Acad. of Sciences Inst. of Automation, Chinese Acad. of Sciences

FrA07	5C
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Observer Design for Nonlinear Systems (Regular Session)

Chair: Manes, Costanzo Co-Chair: Praly, Laurent	Univ. dell'Aquila Mines Paris-Tech.
10:10-10:30	FrA07.1
<i>A Globally Exponentially Convergent Immersion and Invariance Speed Observer for N Degrees of Freedom Mechanical Systems</i> , pp. 6508-6513.	
Astolfi, Alessandro Ortega, Romeo Venkatraman, Aneesh	Imperial Coll. & Univ. of Rome LSS-SUPELEC Univ. of Groningen
10:30-10:50	FrA07.2
<i>Nonlinear Observer Design with an Appropriate Riemannian Metric</i> , pp. 6514-6519.	
Sanfelice, Ricardo G. Praly, Laurent	Univ. of Arizona Mines Paris-Tech.
10:50-11:10	FrA07.3
<i>Extended Nonlinear Observable Canonical Form for Multi-Output Dynamical Systems</i> , pp. 6520-6525.	
Boutat, Driss Busawon, Krishna K.	Ensi de Bourges Northumbria Univ.
11:10-11:30	FrA07.4
<i>Global Finite-Time Observers for Non Linear Systems</i> , pp. 6526-6531.	
Menard, Tomas Moulay, Emmanuel Perruquetti, Wilfrid	Ec. Centrale Nantes Ec. Centrale de Nantes Ec. Centrale de Lille
11:30-11:50	FrA07.5
<i>Semiglobal State Observers for Nonlinear Analytic Discrete-Time Systems</i> , pp. 6532-6537.	
Germani, Alfredo Manes, Costanzo	Univ. dell'Aquila Univ. dell'Aquila
11:50-12:10	FrA07.6
<i>Full-Order High-Gain Observers for Minimum Phase Nonlinear Systems</i> , pp. 6538-6543.	
Memon, Attaullah Khalil, Hassan K.	Michigan State Univ. Michigan State Univ.

FrA08	3I
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Switched Electronic Systems (Invited Session)

Chair: Vasca, Francesco Co-Chair: Chiasson, John Organizer: Vasca, Francesco Organizer: Iannelli, Luigi	Univ. of Sannio Boise State Univ. Univ. of Sannio Univ. of Sannio in Benevento
10:10-10:30	FrA08.1
<i>Stability Analysis of a Lyapunov-Based Controlled Boost Converter (I)</i> , pp. 6544-6548.	
Spinetti-Rivera, Mario Fossas, Enric Biel, Domingo	Univ. of Los Andes Univ. Pol. de Catalunya Univ. Pol. de Catalunya
10:30-10:50	FrA08.2
<i>Cyclic Steady State Behavior of Switched Electronic Systems (I)</i> , pp. 6549-6554.	
Iannelli, Luigi Vasca, Francesco	Univ. of Sannio in Benevento Univ. of Sannio

10:50-11:10		FrA08.3
<i>Model Reduction by Moment Matching for Switched Power Converters (I)</i> , pp. 6555-6560.		
Dib, Wissam		LSS-SUPELEC
Astolfi, Alessandro	Imperial Coll. &	Univ. of Rome
Ortega, Romeo		LSS-SUPELEC
11:10-11:30		FrA08.4
<i>High Dynamic Performance Programmed PWM Control of a Multilevel Inverter with Capacitor DC Sources (I)</i> , pp. 6561-6568.		
Chiasson, John		Boise State Univ.
Du, Zhong		Parker Hannifin Corp.
Ozpineci, Burak	OAK RIDGE NATIONAL Lab.	
Tolbert, Leon	The Univ. of Tennessee	
11:30-11:50		FrA08.5
<i>Power Factor Compensation with Lossless Linear Filters Is Equivalent to (weighted) Power Equalization and a New Cyclo-Dissipativity Characterization (I)</i> , pp. 6569-6574.		
Del Puerto-Flores, Dunstano		Univ. OF GRONINGEN
Ortega, Romeo		LSS-SUPELEC
Scherpen, Jacquelin M.A.		Univ. of Groningen
11:50-12:10		FrA08.6
<i>Optimal Control of a Two Control Input Buck-Boost Converter (I)</i> , pp. 6575-6581.		
Mariethoz, Sebastien		ETH Zurich
Almer, Stefan		ETH Zuerich
Morari, Manfred		ETH Zurich

FrA09		3H
Engine Modeling and Control (Regular Session)		
Chair: Glass, John		MathWorks
Co-Chair: Wang, Junmin		Ohio State Univ.
10:10-10:30		FrA09.1
<i>Control of a Turbocharged Diesel Engine Fitted with High Pressure and Low Pressure Exhaust Gas Recirculation Systems</i> , pp. 6582-6589.		
Grondin, Olivier		IFP
Moulin, Philippe		IFP
Chauvin, Jonathan		IFP
10:30-10:50		FrA09.2
<i>Nonlinear Model Predictive Control for Idle Speed Control of SI Engine</i> , pp. 6590-6595.		
Li, Shu		Jilin Univ.
Chen, Hong	Jilin Univ. Campus NanLing	
Yu, Shuyou	Stuttgart Univ.	
10:50-11:10		FrA09.3
<i>Nonlinear Observer Designs for Diesel Engine Selective Catalytic Reduction (SCR) Ammonia Coverage Ratio Estimation</i> , pp. 6596-6601.		
Hsieh, Ming Feng	The Ohio State Univ. Center for Automotive Res.	
Wang, Junmin	Ohio State Univ.	
11:10-11:30		FrA09.4
<i>Model Reduction of Automotive Engines Using Perturbation Theory</i> , pp. 6602-6607.		
Sharma, Rahul	The Univ. of Melbourne	
Nesic, Dragan	Univ. of Melbourne	
Manzie, Chris	The Univ. of Melbourne	
11:30-11:50		FrA09.5
<i>Dynamic Periodic Observer for a Combustion Engine Test Bench</i> , pp. 6608-6613.		
Chauvin, Jonathan		IFP
Chasse, Alexandre		IFP
11:50-12:10		FrA09.6
<i>A Control Oriented Model of a Common-Rail System for Gasoline Direct Injection Engine</i> , pp. 6614-6619.		
di Gaeta, Alessandro	Consiglio Nazionale delle Ricerche	
Fiengo, Giovanni	Univ. degli Studi del Sannio	
Palladino, Angelo	Univ. del Sannio	
Giglio, Veniero	Consiglio Nazionale delle Ricerche	

FrA10		5D
Nonlinear Adaptive Control I (Regular Session)		
Chair: Hill, David J.		The Australian National Univ.
Co-Chair: Ren, Beibei		National Univ. of Singapore
10:10-10:30		FrA10.1
<i>A Discrete-Time Periodic Adaptive Control Approach for Parametric-Strict-Feedback Systems</i> , pp. 6620-6625.		
Huang, Deqing		Univ.
Xu, Jian-Xin	National Univ. of Singapore	
Hou, Zhongsheng	Beijing Jiaotong Univ.	
10:30-10:50		FrA10.2
<i>Integrated Direct/Indirect Adaptive Robust Control of a Class of Nonlinear Systems Preceded by Unknown Dead-Zone Nonlinearity</i> , pp. 6626-6631.		

Hu, Chuxiong	Zhejiang Univ.
Yao, Bin	Purdue Univ.
Wang, Qingfeng	Zhejiang Univ.
10:50-11:10	FrA10.3
<i>A Multivariable MRAC Scheme with Sensor Uncertainty Compensation</i> , pp. 6632-6637.	
Guo, Jiaying	Univ. of Virginia
Tao, Gang	Univ. of Virginia
11:10-11:30	FrA10.4
<i>Dissipativity-Based Switching Adaptive Control</i> , pp. 6638-6643.	
Liu, Tengfei	The Australian National Univ.
Hill, David J.	The Australian National Univ.
Wang, Cong	South China Univ. of Tech.
11:30-11:50	FrA10.5
<i>Multiple Models Adaptive Feedforward Decoupling Controller Using HDBD Focus</i> , pp. 6644-6649.	
Wang, Xin	Shanghai Jiao Tong Univ.
Yang, Hui	East China Jiaotong Univ.
Li, Shaoyuan	Shanghai Jiao Tong Univ.
Zheng, Yihui	Shanghai Jiao Tong Univ.
11:50-12:10	FrA10.6
<i>Adaptive Control for Parametric Output Feedback Systems with Output Constraint</i> , pp. 6650-6655.	
Ren, Beibei	National Univ. of Singapore
Ge, Shuzhi Sam	National Univ. of Singapore
Tee, Keng Peng	Inst. for Infocomm Res.
Lee, Tong Heng	National Univ. of Singapore

FrA11	5J
Advanced Control Techniques (Regular Session)	
Chair: Liberzon, Daniel	Univ. of Illinois, Urbana-Champaign
Co-Chair: Zheng, Wei Xing	Univ. of Western Sydney
10:10-10:30	FrA11.1
<i>LQ Feedback Formulation for Discrete-Time H-Infinity Output Feedback</i> , pp. 6656-6661.	
Karthikeyan, Anantha	Univ. of Southern California
Safonov, Michael G.	Univ. of Southern California
10:30-10:50	FrA11.2
<i>Nonlinear Control of Non-Minimal Tensegrity Models</i> , pp. 6662-6667.	
Skelton, Robert E.	Univ. of California at San Diego
Mirats Tur, Josep M.	Inst. de Robòtica
10:50-11:10	FrA11.3
<i>Sufficient LMI Conditions for the Design of Static and Reduced Order Controllers</i> , pp. 6668-6673.	
Trofino, Alexandre	Federal Univ. of Santa Catarina
11:10-11:30	FrA11.4
<i>A Primal-Dual Method for Low Order H-Infinity Controller Synthesis</i> , pp. 6674-6679.	
Ankelhed, Daniel	Linköping Univ.
Helmersson, Anders	Linköpings Univ.
Hansson, Anders	Linköping Univ.
11:30-11:50	FrA11.5
<i>Quasi-ISS Reduced-Order Observers and Quantized Output Feedback</i> , pp. 6680-6685.	
Shim, Hyungbo	Seoul National Univ.
Liberzon, Daniel	Univ. of Illinois, Urbana-Champaign
Kim, Jung Su	Korea Univ.
11:50-12:10	FrA11.6
<i>Mixed μ Robust Finite Word Length Controller Design</i> , pp. 6686-6691.	
Wu, Jun	Zhejiang Univ.
Li, Gang	Nanyang Tech. Univ.
Chen, Sheng	Univ. of Southampton
Chu, Jian	Zhejiang Univ.

FrA12	5E
Sliding Mode Control I (Regular Session)	
Chair: Shi, Peng	Faculty of Advanced Tech.
Co-Chair: Spurgeon, Sarah K.	Univ. of Kent
10:10-10:30	FrA12.1
<i>Robust Output Regulation with Exact Unmatched Uncertainties Compensation Based on HOSM Observation (I)</i> , pp. 6692-6696.	
Ferreira, Alejandra	National Autonomous Univ.
Bejarano, Francisco Javier	Univ. Nacional Autonoma de México (UNAM)
Fridman, Leonid M.	National Autonomous Univ.
10:30-10:50	FrA12.2
<i>Euler Discretization of Second-Order Terminal Sliding Mode Control Systems</i> , pp. 6697-6702.	
Wang, Bin	Royal Melbourne Inst. of Tech.

Yu, Xinghuo	RMIT Univ.
10:50-11:10	FrA12.3
<i>Adaptive Sliding Mode Control for Takagi-Sugeno Fuzzy Systems</i> , pp. 6703-6708.	
Zhang, Jinhui	Beijing Inst. of Tech.
Shi, Peng	Faculty of Advanced Tech.
Xia, Yuanqing	Beijing Inst. of Tech.
Fu, Mengyin	Department of Automatic Control, Beijing Inst. ofTechnology
11:10-11:30	FrA12.4
<i>Global Time-Delay Dependent Decentralised Sliding Mode Control Using Only Output Information</i> , pp. 6709-6714.	
Yan, Xing-Gang	Univ. of Kent
Spurgeon, Sarah K.	Univ. of Kent
Edwards, Christopher	Univ. of Leicester
11:30-11:50	FrA12.5
<i>A Second Order Sliding Mode Controller with Polygonal Constraints</i> , pp. 6715-6719.	
Dinuzzo, Francesco	Univ. of Pavia
11:50-12:10	FrA12.6
<i>ITAE Optimal Transient Performance in SMC of Third Order Systems with State and Input Constraints</i> , pp. 6720-6725.	
Nowacka-Leverton, Aleksandra	Tech. Univ. of Aódz;
Bartoszewicz, Andrzej	Tech. Univ. of Lodz

FrA13 5A

Neural Network Systems (Regular Session)

Chair: Dixon, Warren E.	Univ. of Florida
Co-Chair: Wang, Cong	South China Univ. of Tech.
10:10-10:30	FrA13.1
<i>Composite Adaptation for Neural Network-Based Controllers</i> , pp. 6726-6731.	
Patre, Parag	Univ. of Florida
Bhasin, Shubhendu	Univ. of Florida
Wilcox, Zachary	Univ. of Florida
Dixon, Warren E.	Univ. of Florida
10:30-10:50	FrA13.2
<i>Learning from Neural Control for a Class of Discrete-Time Nonlinear Systems</i> , pp. 6732-6737.	
Chen, Tianrui	South China Univ. of Tech.
Wang, Cong	South China Univ. of Tech.
10:50-11:10	FrA13.3
<i>Generating Training Data for Identifying Neurofuzzy Models of Non-Linear Dynamic Systems</i> , pp. 6738-6743.	
Zhou, Yimin	Loughborough Univ.
Dexter, A.L.	Univ. of Oxford
Zolotas, Argyrios	Loughborough Univ.
11:10-11:30	FrA13.4
<i>Optimal Hinfinitiy Synchronization of General Discrete-Time Delayed Chaotic Neural Networks Via Dynamic Output Feedback</i> , pp. 6744-6749.	
Liu, Meiqin	Zhejiang Univ.
Li, X. Rong	Univ. of New Orleans
11:30-11:50	FrA13.5
<i>Optimal Tracking Control of Affine Nonlinear Discrete-Time Systems with Unknown Internal Dynamics</i> , pp. 6750-6755.	
Dierks, Travis	Missouri S&T
Jagannathan, Sarangapani	Missouri Univ. of Science & Tech.
11:50-12:10	FrA13.6
<i>Synchronization Control of Stochastic Delayed Neural Networks Communicating with Unreliable Links</i> , pp. 6756-6761.	
Zhang, Yijun	Nanjing Univ. of Science and Tech.
Yue, Dong	Nanjing Normal Univ.
Tian, Engang	Nanjing Normal Univ.

FrA14 5B

Identification of Nonlinear Systems (Regular Session)

Chair: Runolfsson, Thordur	The Univ. of Oklahoma
Co-Chair: Findeisen, Rolf	OVG Univ. Magdeburg
10:10-10:30	FrA14.1
<i>A Tunable Radial Basis Function Model for Nonlinear System Identification Using Particle Swarm Optimisation</i> , pp. 6762-6767.	
Chen, Sheng	Univ. of Southampton
Hong, Xia	Reading
Luk, Bing L.	City Univ. of Hong Kong
Harris, Chris J.	Univ. of Southampton
10:30-10:50	FrA14.2
<i>Non-Parametric Nonlinear System Identification: An Asymptotic Minimum Mean Squared Error Estimator</i> , pp. 6768-6773.	
Bai, Er-Wei	Univ. of Iowa
10:50-11:10	FrA14.3
<i>Robustness Analysis for Least Squares Kernel Based Regression: An Optimization Approach</i> , pp. 6774-6779.	

Falck, Tillmann Suykens, J.A.K. De Moor, Bart L.R.	K.U. Leuven Katholieke Univ. Leuven Katholieke Univ. Leuven
11:10-11:30 <i>Bounded Characteristics of Wavelet Based SDP Models</i> , pp. 6780-6785.	FrA14.4
Truong, Nguyen-Vu Wang, Liuping	RMIT Univ. Rmit Univ.
11:30-11:50 <i>A Set-Based Framework for Coherent Model Invalidation and Parameter Estimation of Discrete Time Nonlinear Systems</i> , pp. 6786-6792.	FrA14.5
Borchers, Steffen Bosio, Sandro Rumschinski, Philipp Weismantel, Robert Findeisen, Rolf	Otto-von-Guericke Univ. Magdeburg Otto-von-Guericke Univ. Magdeburg OVGU Univ. Magdeburg Otto-von-Guericke Univ. Magdeburg OVG Univ. Magdeburg
11:50-12:10 <i>Identification of Autonomous Complex Dynamic Systems from Noisy Data</i> , pp. 6793-6798.	FrA14.6
Xue, Yuzhen Runolfsson, Thordur	Univ. of Oklahoma The Univ. of Oklahoma

FrA15	3B
Electrical Machines (Regular Session)	

Chair: Geyer, Tobias Co-Chair: Malaize, Jeremy	The Univ. of Auckland Ec. des Mines de Paris
10:10-10:30 <i>Generalized Model Predictive Direct Torque Control: Long Prediction Horizons and Minimization of Switching Losses</i> , pp. 6799-6804.	FrA15.1
Geyer, Tobias	The Univ. of Auckland
10:30-10:50 <i>Speed Synchronization of Multiple Induction Motors with Adjacent Cross Coupling Control</i> , pp. 6805-6810.	FrA15.2
Zhao, Dezong Li, Chunwen Ren, Jun	Tsinghua Univ. Professor Tsinghua Univ.
10:50-11:10 <i>An Observer-Based Design for Cogging Forces Cancellation in Permanent Magnet Linear Motors</i> , pp. 6811-6816.	FrA15.3
Malaize, Jeremy Levine, Jean	Ec. des Mines de Paris Mines-ParisTech
11:10-11:30 <i>Ordinal Optimization Based Security Dispatching in Deregulated Power Systems</i> , pp. 6817-6822.	FrA15.4
Jia, Qing-Shan Xie, Min Wu, Felix F.	Tsinghua Univ. South China Univ. of Tech. the Univ. of Hong Kong
11:30-11:50 <i>Sensorless Maximum Power Point Tracking in Multi-Type Wind Energy Conversion Systems</i> , pp. 6823-6828.	FrA15.5
Fan, Lingling Miao, Zhixin Wang, Xin	Univ. of South Florida Midwest ISO NDSU
11:50-12:10 <i>Fault Ride through Techniques of DFIG-Based Wind Energy Systems</i> , pp. 6829-6834.	FrA15.6
Fan, Lingling Zhu, Chanxia Hu, Minqiang	Univ. of South Florida Southeast Univ. Southeast Univ.

FrA16	5F
Sensor/ Communication Networks (Regular Session)	

Chair: Fang, Huajing Co-Chair: Zhou, Yan	Huazhong Univ. of Science and Tech. Shanghai Jiao Tong Univ.
10:10-10:30 <i>Quantized Measurement Fusion for Target Tracking in Wireless Sensor Networks</i> , pp. 6835-6840.	FrA16.1
Zhou, Yan Li, Jianxun	Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ.
10:30-10:50 <i>Adaptive Actuator Failure Compensation Design for Networked Control Systems with State-Dependent Disturbances</i> , pp. 6841-6846.	FrA16.2
H. Tahoun, A Fang, Huajing	huazhong Univ. of science and Tech. Huazhong Univ. of Science and Tech.
10:50-11:10 <i>On the Steady-State Performance of Kalman Filtering with Intermittent Observations for Stable Systems</i> , pp. 6847-6852.	FrA16.3
Vakili, Ali Hassibi, Babak	Caltech Caltech
11:10-11:30 <i>Adaptive Feedback Exponentially Synchronization of Complex Delayed Dynamical Networks with Nonlinearly Coupled Nodes</i> , pp.	FrA16.4

6853-6857.	Yue, Dong Li, Hongjie Liu, Jinliang Tian, Engang Li, Minghao	Res. Center for Information & Control Engineering Technology Nanjing Normal Univ. Donghua Univ. Nanjing Normal Univ. Donghua Univ.
11:30-11:50		FrA16.5
<i>LQ Control for Networked Systems with Input Delay and Packet Loss</i> , pp. 6858-6863.	Wang, Haoqian Zhang, Ying	Harbin Inst. of Tech. Harbin Inst. of Tech.
11:50-12:10		FrA16.6
<i>Self-Learning PD Game with Imperfect Information on Networks</i> , pp. 6864-6869.	Li, Zhuozheng Chu, Tianguang Wang, Long	Peking Univ. Peking Univ. Peking Univ.

FrA17		5H
Stochastic Networked Control Systems (Regular Session)		

	Chair: Wang, Zidong Co-Chair: Wang, Hong	Brunel Univ. The Univ. of Manchester
10:10-10:30		FrA17.1
<i>On H-Infinity Control with Multiple Packet Dropouts: Dealing with Repeated Scalar Nonlinearities</i> , pp. 6870-6875.	Dong, Hongli Wang, Zidong Liang, Jinling Gao, Huijun	Harbin Inst. of Tech. Brunel Univ. Southeast Univ. Harbin Inst. of Tech.
10:30-10:50		FrA17.2
<i>A Minimized Zero Mean Entropy Approach to Networked Control Systems</i> , pp. 6876-6881.	Zhang, Jianhua Wang, Hong	NCEPU The Univ. of Manchester
10:50-11:10		FrA17.3
<i>Control of Impulsive Renewal Systems: Application to Direct Design in Networked Control</i> , pp. 6882-6887.	Antunes, Duarte Hespanha, Joao P. Silvestre, Carlos	Inst. Superior Tecnico, Lisbon Univ. of California, Santa Barbara Inst. Superior Tecnico
11:10-11:30		FrA17.4
<i>Stability of Networked Control Systems Subject to Input and Output Packet Loss</i> , pp. 6888-6892.	Hu, Shawn Yan, Wei-Yong	Curtin Univ. of Tech. Curtin Univ. of Tech.
11:30-11:50		FrA17.5
<i>Mean Square Stabilization of Multi-Input Systems Over Stochastic Multiplicative Channels</i> , pp. 6893-6898.	Xiao, Nan Xie, Lihua Qiu, Li	Nanyang Tech. Univ. Nanyang Tech. Univ. Hong Kong Univ. of Sci. & Tech.
11:50-12:10		FrA17.6
<i>Stochastic Stability Analysis of Packet-Based Networked Control Systems</i> , pp. 6899-6903.	Zhao, Yun-Bo Liu, Guoping Rees, David	Univ. of Glamorgan Univ. of Glamorgan Univ. of Glamorgan

FrA18		5I
Constrained Control I (Regular Session)		

	Chair: Gomes Da Silva Jr., Joao Manoel Co-Chair: Lens, Hendrik	Univ. Federal do Rio Grande do Sul TU Darmstadt
10:10-10:30		FrA18.1
<i>Dynamic Anti-Windup Synthesis for State Delayed Systems: An LMI Approach</i> , pp. 6904-6909.	Gomes Da Silva Jr., Joao Manoel Bender, Fernando Augusto Tarbouriech, Sophie Biannic, Jean-Marc	Univ. Federal do Rio Grande do Sul UFRGS LAAS-CNRS ONERA
10:30-10:50		FrA18.2
<i>Anti-Windup Compensation for Nonlinear Systems Via Gradient Projection: Application to Adaptive Control</i> , pp. 6910-6916.	Teo, Justin How, Jonathan P.	Massachusetts Inst. of Tech. MIT
10:50-11:10		FrA18.3
<i>Controller Design for Polynomial Systems with Input Constraints</i> , pp. 6917-6922.	Gussner, Thomas Adamy, Jürgen	Tech. Univ. Darmstadt Tech. Univ. Darmstadt
11:10-11:30		FrA18.4

<i>Constrained Time-Optimal Control of Linear Parameter-Varying Systems</i> , pp. 6923-6928. Besselmann, Thomas Löffberg, Johan Morari, Manfred	ETH Zurich Linköpings Univ. ETH Zurich
11:30-11:50	FrA18.5
<i>An Extended Command Governor for Constrained Linear Systems with Disturbances</i> , pp. 6929-6934. Gilbert, Elmer G. Ong, Chong-Jin	Univ. of Michigan, Ann Arbor National Univ. of Singapore
11:50-12:10	FrA18.6
<i>Fast Robust Stabilization by Saturating Output Feedback of Uncertain Linear Systems with Input Constraints</i> , pp. 6935-6940. Lens, Hendrik	TU Darmstadt
FrAln1	Mandarin Hall
Fault Diagnosis II (Interactive Session)	
10:30-11:50	FrAln1.1
<i>A Note on Fault Diagnosis Algorithms</i> , pp. 6941-6946. Cassez, Franck	NICTA & CNRS
10:30-11:50	FrAln1.2
<i>Fault Diagnosis with Disturbance Rejection Performance Based on Disturbance Observer</i> , pp. 6947-6951. Cao, Songyin Guo, Lei	southeast Univ. Beihang Univ.
10:30-11:50	FrAln1.3
<i>New Results for Fault Detection of Untimed Continuous Petri Nets</i> , pp. 6952-6957. Seatzu, Carla Cabasino, Maria Paola Mahulea, Cristian Silva, Manuel	Univ. of Cagliari Univ. of Cagliari Univ. of Zaragoza Univ. De Zaragoza
10:30-11:50	FrAln1.4
<i>Design of Integral Sliding Mode Observers with Application to Fault and Unknown Input Reconstruction</i> , pp. 6958-6963. Sharma, Rahul Aldeen, Mohammad	The Univ. of Melbourne The Univ. of Melbourne
10:30-11:50	FrAln1.5
<i>The Nullspace Method - a Unifying Paradigm to Fault Detection</i> , pp. 6964-6969. Varga, Andras	German Aerospace Center (DLR)
10:30-11:50	FrAln1.6
<i>On-Line Analytic Redundancy Relations Instantiation Guided by Component Discrete-Dynamics for a Class of Non-Linear Hybrid Systems</i> , pp. 6970-6975. Bayouhd, Mehdi Trave-Massuyes, Louise Olive, Xavier	LAAS-CNRS CNRS Thales Alenia Space
10:30-11:50	FrAln1.7
<i>Fault Detection for Descriptor Networked Systems with Multiple Packet Dropouts</i> , pp. 6976-6981. Wang, Jia Wang, Wu Yang, Fuwen Zhang, Jinxian	Fuzhou Univ. Fuzhou Univ. Brunel Univ. Fuzhou Univ.
10:30-11:50	FrAln1.8
<i>Fault Detection and Isolation of Linear Impulsive Systems</i> , pp. 6982-6987. Meskin, Nader Khorasani, Khashayar	Concordia Univ. Concordia Univ.
10:30-11:50	FrAln1.9
<i>Decentralized Fault Detection in a Class of Large-Scale Nonlinear Uncertain Systems</i> , pp. 6988-6993. Zhang, Xiaodong Polycarpou, Marios M. Parisini, Thomas	Wright State Univ. Univ. of Cyprus Univ. of Trieste
10:30-11:50	FrAln1.10
<i>A Parity Space Approach to Fault Detection for Networked Control System Via Optimal Measurement Selection</i> , pp. 6994-6999. Peng, Tao Ding, Steven X. Gui, Weihua Chen, Jie	Hunan Univ. of Tech. Univ. of Duisburg-Essen Central South Univ. Beijing Inst. of Tech.
FrAln2	Mandarin Hall
Autonomous Agents and Networks (Interactive Session)	
10:30-11:50	FrAln2.1
<i>Achieving Symmetric Pareto Nash Equilibria Using Biased Replicator Dynamics</i> , pp. 7000-7005. Somasundaram, Kiran Baras, John S.	Univ. of Maryland, Coll. Park Univ. of Maryland

10:30-11:50		FrAln2.2
<i>A Hybrid Model Predictive Control Scheme for Multi-Agent Containment and Distributed Sensing</i> , pp. 7006-7011.		
Galbusera, Luca		Pol. di Milano
Ferrari-Trecate, Giancarlo		Univ. degli Studi di Pavia
Scattolini, Riccardo		Pol. di Milano
10:30-11:50		FrAln2.3
<i>A Graph-Theoretic Characterization of Structural Controllability for Multi-Agent System with Switching Topology</i> , pp. 7012-7017.		
Liu, Xiaomeng		National Univ. of Singapore
Lin, Hai		National Univ. of Singapore
Chen, Ben M.		National Univ. of Singapore
10:30-11:50		FrAln2.4
<i>Consensus of Discrete-Time Multi-Agent Systems with Nonlinear Local Rules and Time-Varying Delays</i> , pp. 7018-7023.		
Chen, Yao		Inst. of Systems, Acad. of Mathematics and Systems Science.
Lu, Jinhua		Chinese Acad. of Sciences
Lin, Zongli		Univ. of Virginia
10:30-11:50		FrAln2.5
<i>An Exploration Strategy by Constructing Voronoi Diagrams with Provable Completeness</i> , pp. 7024-7029.		
Kim, Jonghoek		Georgia Inst. of Tech.
Zhang, Fumin		Georgia Inst. of Tech.
Egerstedt, Magnus		Georgia Inst. of Tech.
10:30-11:50		FrAln2.6
<i>Randomized Algorithms for Robustness Analysis: A Distributed Approach</i> , pp. 7030-7035.		
Calafiore, Giuseppe		Pol. di Torino
10:30-11:50		FrAln2.7
<i>Kalman-Consensus Filter : Optimality, Stability, and Performance</i> , pp. 7036-7042.		
Olfati-Saber, Reza		Dartmouth Coll.
10:30-11:50		FrAln2.9
<i>Three-Dimensional Motion Coordination in a Time-Invariant Flowfield</i> , pp. 7043-7048.		
Hernandez, Sonia		Univ. of Maryland
Paley, Derek A.		Univ. of Maryland
10:30-11:50		FrAln2.10
<i>Distributed Estimation through Randomized Gossip Kalman Filter</i> , pp. 7049-7054.		
Del Favero, Simone		Univ. of Padova
Zampieri, Sandro		Univ. di Padova
10:30-11:50		FrAln2.11
<i>Cooperative Adaptive Sampling Via Approximate Entropy Maximization</i> , pp. 7055-7060.		
Graham, Rishi		Univ. of California at Santa Cruz
Cortes, Jorge		Univ. of California at San Diego
10:30-11:50		FrAln2.12
<i>Connectivity Preservation in a Network of Single Integrator Agents</i> , pp. 7061-7067.		
Ajorlou, Amir		Concordia Univ.
Momeni, Ahmadreza		Concordia Univ.
Aghdam, Amir G.		Concordia Univ.

FrAln3		Mandarin Hall
Network and Distributed Control (Interactive Session)		

10:30-11:50		FrAln3.1
<i>Impact of Arrival Burstiness on Queue Length: An Infinitesimal Perturbation Analysis</i> , pp. 7068-7073.		
Cai, Yan		Univ. of Massachusetts, Amherst
Liu, Yong		Pol. Inst. of NYU
Gong, Weibo		Univ. of Massachusetts at Amherst
Wolf, Tilman		Univ. of Massachusetts Amherst
10:30-11:50		FrAln3.2
<i>Distributed Power Control in Wireless Networks: Stability and Delay Independence</i> , pp. 7074-7079.		
Lestas, Ioannis		Univ. of Cambridge,
10:30-11:50		FrAln3.3
<i>Designing Linear Distributed Algorithms with Memory for Fast Convergence</i> , pp. 7080-7085.		
Roy, Sandip		Washington State Univ.
Wan, Yan		Washington State Univ.
Saberi, Ali		Washington State Univ.
Xue, Mengran		Washington State Univ.
10:30-11:50		FrAln3.4
<i>Synthesis of Positive-Real Functions with Low-Complexity Series-Parallel Networks</i> , pp. 7086-7091.		
Jiang, Jason Zheng		Univ. of Cambridge
Smith, Malcolm C.		Univ. of Cambridge
10:30-11:50		FrAln3.5
<i>Distributed Control of Spatially Invariant Systems Using Fast Iterative Solutions to Rationally Parametric Matrix Problems</i> , pp. 7092-7098.		
Rice, Justin		TU Delft

Verhaegen, Michel	Delft Univ. of Tech.
10:30-11:50	FrAln3.6
<i>Distributed MPC: A Supply Chain Case Study</i> , pp. 7099-7104.	
Maestre, J.M.	Univ. of Seville
Muñoz de la Peña, David	Univ. de Sevilla
Camacho, Eduardo F.	Univ. of Sevilla
10:30-11:50	FrAln3.7
<i>Distributed Model Predictive Control of Nonlinear Systems Subject to Delayed Measurements</i> , pp. 7105-7112.	
Liu, Jinfeng	Univ. of California, Los Angeles
Muñoz de la Peña, David	Univ. de Sevilla
Christofides, Panagiotis D.	Univ. of California at Los Angeles
10:30-11:50	FrAln3.8
<i>Adaptive Optics Application of Distributed Control Design for Decomposable Systems</i> , pp. 7113-7118.	
Massioni, Paolo	Delft Univ. of Tech.
Fraanje, Rufus	Delft Univ. of Tech.
Verhaegen, Michel	Delft Univ. of Tech.
10:30-11:50	FrAln3.10
<i>Joint Congestion Control and Random Access MAC in Multi-Hop Wireless Networks Via a Simplified Model</i> , pp. 7119-7124.	
Gao, Yan	Univ. of Illinois, Urbana-Champaign
Kumar, P. R.	Univ. of Illinois, Urbana-Champaign
10:30-11:50	FrAln3.11
<i>Distributed Coordination of Fractional-Order Systems with Extensions to Directed Dynamic Networks and Absolute/Relative Damping</i> , pp. 7125-7130.	
Cao, Yongcan	Utah State Univ.
Ren, Wei	Utah State Univ.
10:30-11:50	FrAln3.12
<i>Event-Triggered Control for Multi-Agent Systems</i> , pp. 7131-7136.	
Dimarogonas, Dimos V.	Massachusetts Inst. of Tech.
Johansson, Karl H.	Royal Inst. of Tech.
10:30-11:50	FrAln3.13
<i>Production Planning and Quality of Service Allocation across the Supply Chain in a Dynamic Lead Time Model</i> , pp. 7137-7144.	
Caramanis, Michael C.	Boston Univ.
Wu, Chang-Chen	Boston Univ.
Paschalidis, Ioannis	Boston Univ.
FrAln4	Mandarin Hall
LMIs and Delay Systems (Interactive Session)	
10:30-11:50	FrAln4.1
<i>On Passivity and Passification of Markovian Jump Systems</i> , pp. 7145-7150.	
Wang, Changhong	Dept. of Control Science and Engineering, Harbin Inst.
Yao, Xiuming	Harbin Inst. of Tech.
Wu, Ligang	Harbin Inst. of Tech.
Zheng, Wei Xing	Univ. of Western Sydney
10:30-11:50	FrAln4.2
<i>H-Infinity Filtering for Networked Systems with Limited Communication</i> , pp. 7151-7156.	
Che, Wei-Wei	Northeastern Univ.
Wang, Jian Liang	Nanyang Tech. Univ.
Yang, Guang-hong	Northeastern Univ.
10:30-11:50	FrAln4.3
<i>Insensitive H_{∞} Filter Design for Discrete-Time System: An LMI Optimization Approach</i> , pp. 7157-7162.	
Yang, Guang-hong	Northeastern Univ.
Guo, Xiang-Gui	Northeastern Univ.
10:30-11:50	FrAln4.4
<i>Identification of Spatially Interconnected Systems</i> , pp. 7163-7168.	
Ali, Mukhtar	Tech. Univ. Hamburg Harburg (TUHH)
Chughtai, Saulat Shuja	Hamburg Univ. of Tech.
Werner, Herbert	Hamburg Univ. of Tech.
10:30-11:50	FrAln4.5
<i>Improved Stability Criteria for Linear Uncertain Systems with Interval Time-Varying Delay</i> , pp. 7169-7174.	
Li, Boren	South China Univ. of Tech.
Xu, Bugong	South China Univ. of Tech.
10:30-11:50	FrAln4.6
<i>New Delay-Dependent Stability Criteria for Linear Stochastic Systems with Time-Varying Delay</i> , pp. 7175-7179.	
Yu, Jianjiang	Southeast Univ.
Zhang, Kan_Jian	Southeast Univ.
Fei, Shumin	Southeast Univ.
10:30-11:50	FrAln4.7
<i>Robust Stability Analysis on Discrete-Time Cohen-Grossberg Neural Networks with Distributed Delay</i> , pp. 7180-7185.	

Tao, Li	School of Inst. Nan
Song, Aiguo	Southeast Univ.
Fei, Shumin	Southeast Univ.
10:30-11:50	FrAln4.8
<i>H_∞ Filtering for Neutral Stochastic Systems with Time-Varying Delays</i> , pp. 7186-7191.	
Li, Lin	BeiHang Univ.
Jia, Yingmin	Beihang Univ.
Du, Junping	Beijing Univ. of Posts and Telecommunications
Kokame, Hideki	Osaka Prefecture Univ.
10:30-11:50	FrAln4.9
<i>State Dependent NGMV Control of Delayed Piecewise Affine Systems</i> , pp. 7192-7197.	
Pang, Yan	Univ. of Strathclyde
Grimble, Michael John	Univ. of Strathclyde
10:30-11:50	FrAln4.10
<i>Impulse Elimination by Derivative Feedback for Singular Systems with Delay</i> , pp. 7198-7203.	
Perdon, Anna Maria	Univ. Pol. delle Marche
Anderlucci, Maria	Univ. Pol. delle Marche
10:30-11:50	FrAln4.11
<i>A Nonlinear Small-Gain Theorem for Large-Scale Time Delay Systems</i> , pp. 7204-7209.	
Tiwari, Shanaz	Florida Atlantic Univ.
Wang, Yuan	Florida Atlantic Univ.
Jiang, Zhong-Ping	Pol. Inst. NYU
10:30-11:50	FrAln4.12
<i>Improved Stability and Stabilization Results for Discrete Singular Delay Systems Via Delay Partitioning</i> , pp. 7210-7215.	
Feng, Zhiguang	The Univ. of Hong Kong
Lam, James	The Univ. of Hong Kong
Gao, Huijun	Harbin Inst. of Tech.
Du, Baozhu	The Univ. of Hong Kong
10:30-11:50	FrAln4.13
<i>Stability Analysis for Time-Delay Systems with Partial States Subject to Impulsive Inputs</i> , pp. 7216-7221.	
Chen, Wu-Hua	Guangxi Univ.
Zheng, Wei Xing	Univ. of Western Sydney
10:30-11:50	FrAln4.14
<i>A Switching Control Approach to Stabilization of Parameter Varying Time Delay Systems</i> , pp. 7222-7226.	
Yan, Peng	Seagate Tech.
Ozbay, Hitay	Bilkent Univ.
Sansal, Murat	Hacettepe Univ.
10:30-11:50	FrAln4.15
<i>Stability of Discrete Impulsive Systems with Time Delays</i> , pp. 7227-7231.	
Zhang, Yu	Tongji Univ. China
Sun, Jitao	Tongji Univ.
FrAln5	Mandarin Hall
Identification and Estimation (Interactive Session)	
10:30-11:50	FrAln5.1
<i>Modeling and Identification of Reciprocal Processes</i> , pp. 7232-7237.	
Picci, Giorgio	Univ. di Padova
Carli, Francesca	Univ. of Padova
10:30-11:50	FrAln5.2
<i>Using an Information Filter to Speed Computation of Sparse Parameter Estimates</i> , pp. 7238-7243.	
Blackhall, Lachlan	The Australian National Univ.
Rotkowitz, Michael C.	The Univ. of Melbourne
10:30-11:50	FrAln5.3
<i>Identification of Linear Continuous-Time Systems Based on the Signal Projection</i> , pp. 7244-7249.	
Maruta, Ichiro	Kyoto Univ.
Sugie, Toshiharu	Kyoto Univ.
10:30-11:50	FrAln5.4
<i>Recursive Identification of Both Coefficients and Orders for ARMAX</i> , pp. 7250-7255.	
Chen, Han-Fu	Chinese Acad. of Sciences
Zhao, Wenxiao	Tsinghua Univ.
10:30-11:50	FrAln5.5
<i>Decomposition Based Least Squares Estimation Algorithm for Non-Uniformly Sampled Multirate Systems</i> , pp. 7256-7260.	
Liu, Yanjun	Jiangnan Univ.
Ding, Feng	Jiangnan Univ.
10:30-11:50	FrAln5.6
<i>Further Results on Plant Parameter Identification Using Continuous-Time Multiple-Model Adaptive Estimators</i> , pp. 7261-7266.	
Hassani, Vahid	Tech. Univ. of Lisbon
Aguiar, A. Pedro	Tech. Univ. of Lisbon

Pascoal, Antonio Manuel	Inst. Superior Tecnico
Athans, Michael	Inst. Superior Tecnico
10:30-11:50	FrAln5.7
<i>Position Estimation and Fall Detection Using Visual Receding Horizon Estimation</i> , pp. 7267-7272.	
Brulin, Damien	Ec. Nationale Supérieure d'Ingénieurs de Bourges
Courtial, Estelle	Pol. Univ. d'Orléans
Allibert, Guillaume	Pol.
10:30-11:50	FrAln5.8
<i>On Retrieval of Intermodulated Sinusoids</i> , pp. 7273-7278.	
Yang, Zaiyue	Hong Kong Pol. Univ.
Chan, Che Wai	Univ. of Hong Kong
Wang, Yiwen	Hong Kong Univ. of Science and Tech.

FrAln6	Mandarin Hall
Modeling of Emerging Control Systems and Neural Networks (Interactive Session)	

10:30-11:50	FrAln6.1
<i>Generalized Prandtl-Ishlinskii Hysteresis: Modeling and Robust Control for Smart Actuators</i> , pp. 7279-7284.	
Al Janaideh, Mohammad	Concordia Univ.
Feng, Ying	Concordia Univ.
Rakheja, Subhash	Concordia Univ.
Tan, Yonghong	Shanghai Normal Univ.
Su, Chun-Yi	Concordia Univ.
10:30-11:50	FrAln6.2
<i>Model Reduction for High-Order Port-Hamiltonian Systems. Application to Piezo-Electric Systems</i> , pp. 7285-7290.	
Gentili, Luca	Univ. of Bologna
Bassi, Luca	Univ. of Bologna
Macchelli, Alessandro	Univ. of Bologna - Italy
Melchiorri, Claudio	Univ. of Bologna
Borsari, Roberto	Tetra Pak Packaging Solutions
10:30-11:50	FrAln6.3
<i>Intelligent Prediction Method of Technical Indices in the Industrial Process and Its Application</i> , pp. 7291-7296.	
Bai, Rui	Liaoning Univ. of Tech.
Tong, Shaocheng	Liaoning Univ. of Tech.
Chai, Tianyou	Northeastern Univ.
10:30-11:50	FrAln6.4
<i>A Neural Network Approach for Least Squares Support Vector Machines Learning</i> , pp. 7297-7302.	
Liu, Han	Xi'an Univ. of Tech.
Liu, Ding	Xi'an Univ. of Tech.
10:30-11:50	FrAln6.5
<i>Multivariable Nonlinear Dynamic Modeling Based on DPLS and Hammerstein Model and Its Application</i> , pp. 7303-7308.	
Wang, Wei	Northeastern Univ.
Zhao, Lijie	north eastern Univ.
Chai, Tianyou	Northeastern Univ.
10:30-11:50	FrAln6.6
<i>Auto-Tuning of FOPI and FO[PI] Controllers with Iso-Damping Property</i> , pp. 7309-7314.	
Wang, Chunyang	Changchun Univ. of Sci and Tech.
Jin, Yongshun	Utah State Univ.
Chen, YangQuan	Utah State Univ.
10:30-11:50	FrAln6.7
<i>Neural Control of the Wells Turbine-Generator Module</i> , pp. 7315-7320.	
Amundarain, Modesto	Univ. of the Basque Coutry
Alberdi, Mikel	Univ. of the Basque Country
Garrido, Aitor J.	Univ. of the Basque Country
Garrido, Izaskun	Univ. of the Basque Country
10:30-11:50	FrAln6.8
<i>Modeling a Fire-Rescue Turntable Ladder As Piecewise Euler-Bernoulli Beam with a Tip Mass</i> , pp. 7321-7326.	
Pertsch, Alexander	Univ. Stuttgart
Zimmert, Nico	Univ. Stuttgart
Sawodny, Oliver	Univ. of Stuttgart
10:30-11:50	FrAln6.9
<i>Transient Modelling for Dynamic Power Regulation in Raman Amplified Optical Fibre Links</i> , pp. 7327-7332.	
Dower, Peter M.	The Univ. of Melbourne
Farrell, Peter Mark	The Univ. of Melbourne

FrB01	3D
Lyapunov Methods II (Regular Session)	

Chair: Xin, Xin	Okayama Prefectural Univ.
Co-Chair: Pota, Hemanshu R.	The Univ. of New South Wales
14:10-14:30	FrB01.1

<i>Nonlinear Adaptive Flight Control Law Design and Handling Qualities Evaluation</i> , pp. 7333-7338.	Delft Univ. of Tech. Delft Univ. of Tech. Delft Univ. of Tech. Delft Univ. of Tech.
Sonneveldt, Lars van Oort, Eduard Richard Chu, Q. P. Mulder, J.A. (Bob)	
14:30-14:50	FrB01.2
<i>Nonlinear Stabilization through Long Input Delay - Part III: Linearizable Strict-Feedforward Systems</i> , pp. 7339-7344.	Univ. of California at San Diego
Krstic, Miroslav	
14:50-15:10	FrB01.3
<i>A Case Study on Spacecraft Attitude Control</i> , pp. 7345-7350.	Univ. of Leicester Univ. of Leicester Univ. of Leicester
Ahmed, Rihan Gu, Dawei Postlethwaite, Ian	
15:10-15:30	FrB01.4
<i>Swinging up Multiple Parallel Pendulums on a Cart Via Energy Control</i> , pp. 7351-7356.	Okayama Prefectural Univ.
Xin, Xin	
15:30-15:50	FrB01.5
<i>Path Tracking Control of Agricultural Tractors with Compensation for Steering Dynamics</i> , pp. 7357-7362.	The Univ. of New South Wales The Univ. of New South Wales Univ. of NSW
Eaton, Ray Pota, Hemanshu R. Katupitiya, Jayantha	
15:50-16:10	FrB01.6
<i>Stabilization Problems of Nonlinear Systems Using Feedback Laws with Wiener Processes</i> , pp. 7363-7368.	Yamaguchi Univ. Komatsu Ltd. Hokkaido Univ. Yamaguchi Univ. Yamaguchi Univ.
Nishimura, Yuki Takehara, Kazuki Yamashita, Yuh Tanaka, Kanya Wakasa, Yuji	
<hr/>	
FrB02	3E
Algorithms for Linear Model Predictive Control (Regular Session)	
Chair: Kouvaritakis, Basil Co-Chair: Oldewurtel, Frauke	Oxford Univ. Swiss Federal Inst. of Tech.
14:10-14:30	FrB02.1
<i>Predictive Control for Dual-Rate Systems Based on Lifted State-Space Model Identified by N4SID Method</i> , pp. 7369-7374.	Kyushu Univ. Ibaraki Univ. Kyushu Univ.
Qin, Pan Yang, Zi-jiang Nishii, Ryuei	
14:30-14:50	FrB02.2
<i>On the Computation of Linear Model Predictive Control Laws</i> , pp. 7375-7380.	University of California at Berkeley Honeywell spol s r.o. Univ. of Zagreb Honeywell Automation & Control Sol.
Borrelli, Francesco Pekar, Jaroslav Baotic, Mato Stewart, Greg E	
14:50-15:10	FrB02.3
<i>Blocking Parameterizations for Improving the Computational Tractability of Affine Disturbance Feedback MPC Problems</i> , pp. 7381-7386.	ETH Zurich Osaka Univ. ETH Zurich ETH Zurich
Oldewurtel, Frauke Gondhalekar, Ravi Jones, Colin Neil Morari, Manfred	
15:10-15:30	FrB02.4
<i>Real-Time Input-Constrained MPC Using Fast Gradient Methods</i> , pp. 7387-7393.	ETH Zurich ETH Zurich ETH Zurich
Richter, Stefan Jones, Colin Neil Morari, Manfred	
15:30-15:50	FrB02.5
<i>Improvements on the Efficiency of Linear MPC</i> , pp. 7394-7399.	Beijing Inst. of Tech. Oxford Univ. Univ. of Oxford
Li, Shuang Kouvaritakis, Basil Cannon, Mark	
15:50-16:10	FrB02.6
<i>Aggregation Based Closed-Loop MPC with Guaranteed Performance</i> , pp. 7400-7405.	Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ.
Li, Dewei Xi, Yugeng	

FrB03	3C
Modeling of Linear Parameter Varying Systems (Regular Session)	
Chair: Blanchini, Franco Co-Chair: Tóth, Roland	Univ. degli Studi di Udine Delft Univ. of Tech.

14:10-14:30		FrB03.1
<i>Order and Structural Dependence Selection of LPV-ARX Models Using a Nonnegative Garrote Approach</i> , pp. 7406-7411.		
Tóth, Roland		Delft Univ. of Tech.
Lyzell, Christian		Linköpings Univ.
Enqvist, Martin		Linköping Univ.
Heuberger, Peter S.C.		Delft Univ. of Tech.
Van den Hof, Paul M.J.		Delft Univ. of Tech.
14:30-14:50		FrB03.2
<i>Control-Oriented Multirate LPV Modelling of Virtualized Service Center Environments</i> , pp. 7412-7417.		
Tanelli, Mara		Pol. di Milano
Schiavoni, Nicola L.M.		Pol. di Milano
Ardagna, Danilo		Pol. di Milano
Lovera, Marco		Pol. di Milano
14:50-15:10		FrB03.3
<i>LPV Modelling and Control of a 2-DOF Robotic Manipulator Using PCA-Based Parameter Set Mapping</i> , pp. 7418-7423.		
Hashemi, Seyed Mahdi		Hamburg Univ. of Tech.
Abbas, Hossam Seddik		Hamburg Univ. of Tech.
Werner, Herbert		Hamburg Univ. of Tech.
15:10-15:30		FrB03.4
<i>Discretization of Linear Fractional Representations of LPV Systems</i> , pp. 7424-7429.		
Tóth, Roland		Delft Univ. of Tech.
Lovera, Marco		Pol. di Milano
Heuberger, Peter S.C.		Delft Univ. of Tech.
Van den Hof, Paul M.J.		Delft Univ. of Tech.
15:30-15:50		FrB03.5
<i>LMI Relaxations for Non-Quadratic Discrete Stabilization Via Polya Theorem</i> , pp. 7430-7435.		
Lo, Ji-Chang		National Central Univ.
15:50-16:10		FrB03.6
<i>Stable LPV Realization of Parametric Transfer Functions and Its Application to Gain-Scheduling Control Design</i> , pp. 7436-7441.		
Blanchini, Franco		Univ. degli Studi di Udine
Casagrande, Daniele		Univ. of Udine
Miani, Stefano		Univ. degli Studi di Udine
Viaro, Umberto		Univ. of Udine

FrB04		3A
Differential Geometric Methods (Regular Session)		

Chair: Tall, Issa Amadou		Southern Illinois Univ. Carbondale
Co-Chair: Morin, Pascal		INRIA
14:10-14:30		FrB04.1
<i>On the Generation of Classes of Planar Systems with Given Orbital Symmetries</i> , pp. 7442-7447.		
Menini, Laura		Univ. di Roma 'Tor Vergata'
Tornambe, Antonio		Univ. Di Roma Tor Vergata
14:30-14:50		FrB04.2
<i>State Linearization of Control Systems: An Explicit Algorithm</i> , pp. 7448-7453.		
Tall, Issa Amadou		Southern Illinois Univ. Carbondale
14:50-15:10		FrB04.3
<i>Explicit Feedback Linearization of Control Systems</i> , pp. 7454-7459.		
Tall, Issa Amadou		Southern Illinois Univ. Carbondale
15:10-15:30		FrB04.4
<i>A Procedure for the Computation of Semi-Invariants</i> , pp. 7460-7465.		
Menini, Laura		Univ. di Roma 'Tor Vergata'
Tornambe, Antonio		Univ. Di Roma Tor Vergata
15:30-15:50		FrB04.5
<i>Poisson Reduction Via Feedback Invariant Distributions</i> , pp. 7466-7471.		
Hoeffner, Kai		Queens Univ.
Guay, Martin		Queen's Univ.
15:50-16:10		FrB04.6
<i>Transverse Functions on Special Orthogonal Groups for Vector Fields Satisfying the LARC at the Order One</i> , pp. 7472-7477.		
Morin, Pascal		INRIA
Samson, Claude		INRIA Sophia-Antipolis

FrB05		3J
Mathematical Systems Theory (Regular Session)		

Chair: Gray, W. Steven		Old Dominion Univ.
Co-Chair: Ebenbauer, Christian		Massachusetts Inst. of Tech.
14:10-14:30		FrB05.1
<i>On Fliess Operators Driven by L2-Ito Random Processes</i> , pp. 7478-7484.		
Duffaut Espinosa, Luis Augusto		Old Dominion Univ.
Gray, W. Steven		Old Dominion Univ.

González, Oscar R.	Old Dominion Univ.
14:30-14:50	FrB05.2
<i>Geometry of Cyclic Pursuit</i> , pp. 7485-7490.	
Galloway, Kevin	Univ. of Maryland
Justh, Eric	Naval Res. Lab.
Krishnaprasad, P. S.	Univ. of Maryland
14:50-15:10	FrB05.3
<i>On an Eigenflow Equation and Its Structure Preserving Properties</i> , pp. 7491-7496.	
Ebenbauer, Christian	Stuttgart Univ.
Arsie, Alessandro	Penn State Univ.
15:10-15:30	FrB05.4
<i>Ergodic Partition of Phase Space in Continuous Dynamical Systems</i> , pp. 7497-7502.	
Susuki, Yoshihiko	Univ. of California, Santa Barbara
Mezic, Igor	Univ. of California, Santa Barbara
15:30-15:50	FrB05.5
<i>Control Interpretations of Products in the Hopf Algebra</i> , pp. 7503-7508.	
Kawski, Matthias	Arizona State Univ.
15:50-16:10	FrB05.6
<i>Computation of Convergence Radius and Error Bounds of Volterra Series for Single Input Systems with a Polynomial Nonlinearity</i> , pp. 7509-7514.	
Helie, Thomas	CNRS UMR 9912, Ircam - Centre Georges Pompidou
Laroche, Beatrice	Univ. Paris Sud & Supelec

FrB06	3G
Robotics and Mechatronical Systems (Regular Session)	
Chair: de Callafon, Raymond A.	Univ. of California, San Diego
Co-Chair: Namerikawa, Toru	Keio Univ.
14:10-14:30	FrB06.1
<i>Damping Enhancement of Haptic Devices by Using Velocities from Accelerometers and Encoders</i> , pp. 7515-7520.	
Zhu, Wen-Hong	Canadian Space Agency
Lamarche, Tom	Canadian Space Agency
14:30-14:50	FrB06.2
<i>A Power Based Time Domain Passivity Control for Haptic Interfaces</i> , pp. 7521-7526.	
Ye, Yongqiang	Dalhousie Univ.
Pan, Ya-Jun	Dalhousie Univ.
Gupta, Yash P.	Dalhousie Univ.
14:50-15:10	FrB06.3
<i>Bilateral Control with Constant Feedback Gains for Teleoperation with Time Varying Delay</i> , pp. 7527-7532.	
Namerikawa, Toru	Keio Univ.
15:10-15:30	FrB06.4
<i>Time Domain Passivity Control of Teleoperation Systems with Random Asymmetric Time Delays</i> , pp. 7533-7538.	
Ye, Yongqiang	Dalhousie Univ.
Pan, Ya-Jun	Dalhousie Univ.
Gupta, Yash P.	Dalhousie Univ.
15:30-15:50	FrB06.5
<i>Evaluation of Track Following Performance for Patterned Servo Sectors in Hard Disk Drives</i> , pp. 7539-7544.	
Han, Younghee	Univ. of California, San Diego
de Callafon, Raymond A.	Univ. of California, San Diego
15:50-16:10	FrB06.6
<i>A Novel Contour Error Estimation in Biaxial Contouring Control</i> , pp. 7545-7550.	
Yang, Jiangzhao	Harbin Inst. of Tech.
Li, Zexiang	Hong Kong Univ. of Science & Tech.

FrB07	5C
Observer Design and Applications (Regular Session)	
Chair: Leonessa, Alexander	Virginia Tech.
Co-Chair: Yang, Zi-jiang	Ibaraki Univ.
14:10-14:30	FrB07.1
<i>Prediction-Based Observation of Nonlinear Systems Non-Affine in the Unmeasured States</i> , pp. 7551-7556.	
Morel, Yannick	Virginia Tech.
Leonessa, Alexander	Virginia Tech.
14:30-14:50	FrB07.2
<i>Dwell-Time and Monitoring Schemes for Peaking Avoidance in High-Gain Observer Based Output-Feedback Control</i> , pp. 7557-7562.	
Oliveira, Tiago Roux	COPPE/UFRJ
Peixoto, Alessandro Jacoud	Federal Center of Tech. Celso Suckow da Fonseca
Hsu, Liu	COPPE/UFRJ
14:50-15:10	FrB07.3
<i>Sensor-Based Complementary Globally Asymptotically Stable Filters for Attitude Estimation</i> , pp. 7563-7568.	

Batista, Pedro T. M.	Inst. Superior Técnico
Silvestre, Carlos	Inst. Superior Técnico
Oliveira, Paulo Jorge	Inst. Superior Técnico
15:10-15:30	FrB07.4
<i>A Nonlinear Observer for Semidetachable Chemical Reactions with Application to Kinetic-Rate-Constant Estimation</i> , pp. 7569-7574.	
D'Amato, Anthony	Univ. of Michigan
Ridley, Aaron	Univ. of Michigan
Bernstein, Dennis S.	Univ. of Michigan
15:30-15:50	FrB07.5
<i>Robust Output Feedback Control of a Magnetic Levitation System Via High-Gain Observer</i> , pp. 7575-7580.	
Yang, Zi-jiang	Ibaraki Univ.
Hara, Seiichiro	kyushu Univ.
Kanae, Shunshoku	Fukui Univ. of Tech.
Wada, Kiyoshi	Kyushu Univ.
15:50-16:10	FrB07.6
<i>Coupling Framers to Get Enhanced Interval Observers. Application to Growth Rate Estimation in a Photobioreactor</i> , pp. 7581-7586.	
Mairet, Francis	Inria
Bernard, Olivier	Inria

FrB08	3I
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Estimation Fusion in Distributed Systems (Regular Session)

Chair: Fang, Huajing	Huazhong Univ. of Science and Tech.
Co-Chair: Tinka, Andrew	Univ. of California at Berkeley
14:10-14:30	FrB08.1
<i>A Distributed Hybrid Filter for Target Tracking in Sensor Networks</i> , pp. 7587-7592.	
Li, Feng	Univ. of Melbourne
Evans, Jamie Scott	Univ. of Melbourne
14:30-14:50	FrB08.2
<i>Weighted Measurement Fusion Kalman Filter Based on Linear Unbiased Minimum Variance Criterion</i> , pp. 7593-7598.	
Gao, Yuan	Heilongjiang Univ.
Ran, Chen-Jian	Heilongjiang Univ.
Deng, Zi-Li	Heilongjiang Univ.
14:50-15:10	FrB08.3
<i>Scalar-Weighted Fusion Estimators for Systems with Multiple Sensors and Multiple Delayed Measurements</i> , pp. 7599-7602.	
Lv, Nan	Heilongjiang Univ.
Sun, Shuli	Heilongjiang Univ.
15:10-15:30	FrB08.4
<i>A Robust Estimation Fusion with Unknown Cross-Covariance in Distributed Systems</i> , pp. 7603-7607.	
Wu, Duzhi	sichuan Univ.
Zhou, Jie	Sichuan Univ.
Qu, Xiaomei	Si Chuan Univ.
15:30-15:50	FrB08.5
<i>Distributed Function and Time Delay Estimation Using Nonparametric Techniques</i> , pp. 7608-7613.	
Varagnolo, Damiano	Univ. of Padova
Pillonetto, Gianluigi	Univ. of Padova
Schenato, Luca	Univ. of Padova
15:50-16:10	FrB08.6
<i>Quadratic Programming Based Data Assimilation with Passive Drifting Sensors for Shallow Water Flows</i> , pp. 7614-7620.	
Tinka, Andrew	Univ. of California at Berkeley
Strub, Issam S.	Univ. of California, Berkeley
Wu, Qingfang	Univ. of California, Berkeley
Bayen, Alexandre M.	Univ. of California at Berkeley

FrB09	3H
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Automotive Control (Regular Session)

Chair: Falcone, Paolo	Chalmers Univ. of Tech.
Co-Chair: Chen, Hong	Jilin Univ. Campus NanLing
14:10-14:30	FrB09.1
<i>Drive-By-Wire Vehicle Stabilization and Yaw Regulation: A Hybrid Model Predictive Control Design</i> , pp. 7621-7626.	
Bernardini, Daniele	Univ. of Siena
Di Cairano, Stefano	Ford Motor Company
Bemporad, Alberto	Univ. of Siena
Tseng, Eric	Ford Motor Company
14:30-14:50	FrB09.2
<i>Predictive Approaches to Rear Axle Regenerative Braking Control in Hybrid Vehicles</i> , pp. 7627-7632.	
Falcone, Paolo	Chalmers Univ. of Tech.
Khoshfetrat pakazad, Sina	Chalmers Univ. of Tech.
Solyom, Stefan	Volvo Cars Corp.
14:50-15:10	FrB09.3

<i>Analysis and Design of Handling-Oriented Control Strategies for Semi-Active Suspensions</i> , pp. 7633-7638.	Univ. degli studi di Bergamo
Spelta, Cristiano	Pol. di Milano
Delvecchio, Diego	Pol. di Milano
Cantoni, Roberto	Pol. di Milano
Lazzari, Riccardo	Pol. Di Milano
Savaresi, Sergio M.	Pol. Di Milano
15:10-15:30	FrB09.4
<i>Robust Controller Design for Vehicle Semi-Active Suspensions with Electrorheological Dampers</i> , pp. 7639-7644.	Univ. of Wollongong
Du, Haiping	Univ. of Tech. Sydney
Zhang, Nong	
15:30-15:50	FrB09.5
<i>Nonlinear Adaptive Tracking for Ground Vehicles</i> , pp. 7645-7650.	Univ. of L'Aquila
Di Gennaro, Stefano	CINVESTAV-GDL, Mexico
Castillo-Toledo, Bernardino	Ford Forschungszentrum Aachen
Burgio, Gilberto	
15:50-16:10	FrB09.6
<i>Clutch Slip Control of Automatic Transmission Using Nonlinear Method</i> , pp. 7651-7656.	Jilin Univ. Yokohama National Univ.
Gao, Bingzhao	Jilin Univ. Campus NanLing
Chen, Hong	JiLin Univ.
Ma, Yan	Yokohama National Univ.
Sanada, Kazushi	

FrB10 5D

Nonlinear Adaptive Control II (Regular Session)	
Chair: Anderson, Brian D.O.	Australian National Univ.
Co-Chair: Hou, Zhongsheng	Beijing Jiaotong Univ.
14:10-14:30	FrB10.1
<i>Verifying Nonlinear Controllers for Stability Utilizing Closed-Loop Noisy Data</i> , pp. 7657-7662.	RSISE, The Australian National Univ.
Cha, Sung Han	The Australian National Univ.
Dehghani, Arvin	Australian National Univ.
Anderson, Brian D.O.	
14:30-14:50	FrB10.2
<i>Model-Free Indirect Adaptive Decoupling Control for Nonlinear Discrete-Time MIMO Systems</i> , pp. 7663-7668.	Beijing Univ. of Aeronautics and Astronautics
Wang, Weihong	Beijing Jiaotong Univ.
Hou, Zhongsheng	Beijing Jiaotong Univ.
Jin, Shangtai	
14:50-15:10	FrB10.3
<i>Multiple Model Adaptive Control (MMAC) for Nonlinear Systems with Nonlinear Parameterization</i> , pp. 7669-7674.	Australian National Univ.
Chen, Wei-tian	Australian National Univ.
Anderson, Brian D.O.	
15:10-15:30	FrB10.4
<i>High Performance Adaptive Robust Control for Nonlinear System with Unknown Input Backlash</i> , pp. 7675-7679.	Nanjing Univ. of Science and Tech.
Guo, Jian	Purdue Univ.
Yao, Bin	Nanjing Univ. of Science and Tech.
Chen, Qingwei	Nanjing Univ. of Sci. & Tech.
Wu, Xiaobei	
15:30-15:50	FrB10.5
<i>Modular Design of Adaptive Tracking for a Class of Stochastic Nonlinear Systems with Passive Identifiers</i> , pp. 7680-7685.	Univ. of Science and Tech. of China
Wang, Jun	Univ. of Science and Tech. of China
Cai, Tao	Univ. of Science and Tech. of China
Kang, Yu	Univ. of Science and Tech. of China
Li, Yafeng	
15:50-16:10	FrB10.6
<i>Robust Adaptive Output Feedback Control of a Class of Discrete-Time Nonlinear Systems Perturbed by Nonlinear Uncertainties</i> , pp. 7686-7691.	National Univ. of Singapore
Dai, Shi-Lu	National Univ. of Singapore
Yang, Chenguang	National Univ. of Singapore
Ge, Shuzhi Sam	National Univ. of Singapore
Lee, Tong Heng	

FrB11 5J

Biomedical and Biological Systems (Regular Session)	
Chair: Jiang, Zhong-Ping	Pol. Inst. NYU
Co-Chair: Sarma, Sridevi	Massachusetts Inst. of Tech.
14:10-14:30	FrB11.1
<i>Controlling the Phase of an Oscillator: A Phase Response Curve Approach</i> , pp. 7692-7697.	Inst. for Problems of Mechanical Eng.
Efimov, Denis	Univ. de Liège
Sacré, Pierre	Univ. de Liege
Sepulchre, Rodolphe J.	

14:30-14:50		FrB11.2
<i>Reconfigurable Ion-Channel Based Biosensor: Input Excitation Design and Analyte Classification</i> , pp. 7698-7703.		
Monfared, Sahar		Univ. of British Columbia
Krishnamurthy, Vikram		Univ. of British Columbia
Cornell, Bruce		Surgical Diagnostics Pty. Ltd.
14:50-15:10		FrB11.3
<i>Evolutionary Game Dynamics in Finite Populations with Migration</i> , pp. 7704-7709.		
Wang, Jing		Peking Univ.
Chen, Xiaojie		Peking Univ.
Wang, Long		Peking Univ.
15:10-15:30		FrB11.4
<i>Time-Varying Control Laws with Guaranteed Persistence for a Class of Multi-Species Chemostats</i> , pp. 7710-7715.		
Mazenc, Frederic		INRIA Sophia-Antipolis,
Jiang, Zhong-Ping		Pol. Inst. NYU
15:30-15:50		FrB11.5
<i>Using Point Process Models to Determine the Impact of Visual Cues on Basal Ganglia Activity and Behavior of Parkinson's Patients</i> , pp. 7716-7722.		
Sarma, Sridevi		Johns Hopkins Univ.
Eden, Uri		Boston Univ.
Cheng, Ming		Brown Univ.
Williams, Ziv		Massachusetts General Hospital
Eskandar, Emad		Massachusetts General Hospital
Brown, Emery		MIT
15:50-16:10		FrB11.6
<i>System Identification of Hunchback Protein Patterning in Early Drosophila Embryogenesis</i> , pp. 7723-7728.		
Aswani, Anil		Univ. of California at Berkeley
Guturu, Harendra		Stanford Univ.
Tomlin, Claire J.		UC Berkeley

FrB12		5E
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Sliding Mode Control II (Regular Session)		
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Chair: Punta, Elisabetta		National Res. Council of Italy
Co-Chair: Zong, Qun		Tianjin Univ.
14:10-14:30		FrB12.1
<i>Sliding-Mode State Observers for Multi-Output Nonlinear Systems with Bounded Noises on Dynamics and Measurements</i> , pp. 7729-7734.		
Alessandri, Angelo		Univ. of Genoa
Cuneo, Marta		ISSIA-CNR
Punta, Elisabetta		National Res. Council of Italy
14:30-14:50		FrB12.2
<i>Compensator-Based Sliding Mode Output Feedback Simultaneous Stabilisation Controller Design Via LMIs for Uncertain Systems</i> , pp. 7735-7740.		
Andrade Da Silva, J. M.		Univ. of Leicester
Edwards, Christopher		Univ. of Leicester
14:50-15:10		FrB12.3
<i>Second Order Sliding Output Control of Permanent Magnet Synchronous Machines</i> , pp. 7741-7746.		
Cavallo, Alberto		Seconda Univ. degli Studi di Napoli
Natale, Ciro		Seconda Univ. degli Studi di Napoli
15:10-15:30		FrB12.4
<i>Sliding-Mode Real-Time Mobile Platform Control in the Presence of Uncertainties</i> , pp. 7747-7752.		
Solea, Razvan		"Dunarea de Jos" Univ. of Galati
Filipescu, Adrian		Univ. Dunarea de Jos, Galati
Stamatescu, Grigore		Pol. Univ. of Bucharest
15:30-15:50		FrB12.5
<i>An Extension of Sliding Mode Control Design for the 2-D Systems in Roesser Model</i> , pp. 7753-7758.		
Adloo, Hassan		Shiraz Univ.
Karimaghvaei, Paknosh		Shiraz Univ.
Soltani Sarvestani, Ahad		Shiraz Univ.
15:50-16:10		FrB12.6
<i>Higher Order Adaptive Sliding Mode Control for a Class of SISO Systems</i> , pp. 7759-7764.		
Zong, Qun		Tianjin Univ.
Zhao, Zhanshan		Tianjin Univ.
Dou, Liqian		Tianjin Univ.

FrB13		5A
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Fuzzy Systems (Regular Session)		
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Chair: Chen, Jie		Beijing Inst. of Tech.
Co-Chair: Chang, Wen-Jer		National Taiwan Ocean Univ.
14:10-14:30		FrB13.1
<i>H-Infinity Dynamic Output Feedback Control for Fuzzy Systems with Quantized Measurements</i> , pp. 7765-7770.		

Guan, Yanpeng	Hangzhou Dianzi Univ.
Zhou, Shaosheng	Hangzhou Dianzi Univ.
Zheng, Wei Xing	Univ. of Western Sydney
14:30-14:50	FrB13.2
<i>Polynomial Fuzzy Observer Design: A Sum of Squares Approach</i> , pp. 7771-7776.	
Tanaka, Kazuo	Univ. of Electro-Communications
Ohtake, Hiroshi	Univ. of Electro-Communications
Wada, Motohiro	The Univ. of Electro-Communications
Wang, Hua O.	Boston Univ.
Chen, Ying-Jen	National Central Univ.
14:50-15:10	FrB13.3
<i>Color Image Retrieval and Classification Using Fuzzy Similarity Measure and Fuzzy Clustering Method</i> , pp. 7777-7782.	
Ban, Xiaojuan	Univ. of Science and Tech. Beijing
Lv, Xiaolong	Univ. of Science and Tech. Beijing
Chen, Jie	Beijing Inst. of Tech.
15:10-15:30	FrB13.4
<i>Observer-Based Robust Fuzzy Controller Design for Uncertain Stochastic T-S Fuzzy Model with Passivity Performance</i> , pp. 7783-7788.	
Ku, Cheung-Chieh	National Taiwan Ocean Univ.
Huang, Pei-Hwa	National Taiwan Ocean Univ.
Chang, Wen-Jer	National Taiwan Ocean Univ.
15:30-15:50	FrB13.5
<i>An Approach for the State Estimation of Takagi-Sugeno Models and Application to Sensor Fault Diagnosis</i> , pp. 7789-7794.	
Ichalal, Dalil	Nancy-Univ. (CRAN)
Marx, Benoit	Ctr de Recherche en Automat. de Nancy
Ragot, Jose	CRAN-INPL
Maquin, Didier	Inst. National Pol. de Lorraine
15:50-16:10	FrB13.6
<i>State Estimation of the Three-Tank System Using a Multiple Model</i> , pp. 7795-7800.	
Nagy, Anca Maria	Inst. National Pol. de Lorraine (INPL)
Mourot, Gilles	Inst. National Pol. De Lorraine
Marx, Benoit	Ctr de Recherche en Automat. de Nancy
Georges, Schutz	Centre de recherche public Henri Tudor
Ragot, Jose	CRAN-INPL

FrB14	5B
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Fault Tolerant Systems I (Regular Session)

Chair: Zheng, Ying	Huazhong Univ. of Science and Tech.
Co-Chair: Jiang, Bin	Nanjing Univ. of Aeronautics & Astronautics
14:10-14:30	FrB14.1
<i>Fault Tolerant Control Using Virtual Actuators and Invariant-Set Based Fault Detection and Identification</i> , pp. 7801-7806.	
Seron, Maria	The Univ. of Newcastle
De Dona, Jose Adrian	The Univ. of Newcastle
14:30-14:50	FrB14.2
<i>Improved Multisensor Switching Scheme for Fault Tolerant Control</i> , pp. 7807-7812.	
Seron, Maria	The Univ. of Newcastle
De Dona, Jose Adrian	The Univ. of Newcastle
Martinez Molina, John Jairo	GIPSA-Lab. GRENOBLE-INP
14:50-15:10	FrB14.3
<i>A New Supervisory Fault Tolerant Output Regulation Scheme for Nonlinear Systems</i> , pp. 7813-7818.	
Yang, Hao	Univ. des Sciences et Tech. de Lille
Jiang, Bin	Nanjing Univ. of Aeronautics & Astronautics
Cocquempot, Vincent	Univ. des Sci et Tech. de Lille
15:10-15:30	FrB14.4
<i>PACT : A PASSive / ACTIVE Approach to Fault Tolerant Stability under Actuator Outages</i> , pp. 7819-7824.	
Staroswiecki, Marcel	Univ. des Sciences et Tech. de Lille
Berdjag, Denis	Ec. Normale Supérieure de Cachan
Jiang, Bin	Nanjing Univ. of Aeronautics & Astronautics
Zhang, Ke	Nanjing Univ. of Aeronautics and Astronautics
15:30-15:50	FrB14.5
<i>Multisensor Fusion Fault-Tolerant Control with Diagnosis Via a Set Separation Principle</i> , pp. 7825-7830.	
De Dona, Jose Adrian	The Univ. of Newcastle
Seron, Maria	The Univ. of Newcastle
Yetendje, Alain	Univ. of Newcastle, Australia
15:50-16:10	FrB14.6
<i>Statistical Properties of CUSUM Based Fault Detection Schemes for Fault Tolerant Control</i> , pp. 7831-7836.	
Zhao, Qing	Univ. of Alberta
Kinnaert, Michel	Univ. Libre de Bruxelles

FrB15	3B
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Electrical Power Systems (Regular Session)

Chair: Lamnabhi-Lagarrigue, Françoise	CNRS and EECI
Co-Chair: Liaw, Der-Cherng	National Chiao Tung Univ.
14:10-14:30	FrB15.1
<i>An Application of Immersion and Invariance to Transient Stability and Voltage Regulation of Power Systems with Unknown Mechanical Power</i> , pp. 7837-7842.	
Dib, Wissam	LSS-SUPELEC
Kenne, Godpromesse	Univ. de Dschang
Lamnabhi-Lagarrigue, Françoise	CNRS and EECI
14:30-14:50	FrB15.2
<i>A Novel STATCOM Control to Augment LVRT of Fixed Speed Wind Generators</i> , pp. 7843-7848.	
Hossain, Md. Jahangir	UNSW@ADFA
Pota, Hemanshu R.	The Univ. of New South Wales
Ugrinovskii, Valery	Univ. of New South Wales
Ramos, Rodrigo A.	Univ. de Sao Paulo
14:50-15:10	FrB15.3
<i>Model Predictive Control for Wind Power Generation Smoothing with Controlled Battery Storage</i> , pp. 7849-7853.	
Khalid, Muhammad	Univ. of New South Wales
Savkin, Andrey V.	Univ. of New South Wales
15:10-15:30	FrB15.4
<i>Voltage Tracking Design for Electric Power Systems Via SMC Approach</i> , pp. 7854-7859.	
Liaw, Der-Cherng	National Chiao Tung Univ.
Chang, Shih-Tse	National Chiao Tung Univ.
Huang, Yun-Hua	National Chiao Tung Univ.
15:30-15:50	FrB15.5
<i>PEM Fuel Cell Distributed Generation System: Modeling and Robust Adaptive Control</i> , pp. 7860-7865.	
Khorrami, Farshad	Pol. Inst. of NYU
Puranik, Sachin	The Ohio State Univ.
Keyhani, Ali	The Ohio State Univ.
Krishnamurthy, Prashanth	IMI
She, Yun	Pol. Inst. of NYU
15:50-16:10	FrB15.6
<i>Common Mode Current Reduction in an Inverter-Fed Induction Motor Control System</i> , pp. 7866-7871.	
Yan, Wenguang	Ohio State Univ.

FrB16

5F

Sensor Networks (Regular Session)

Chair: Xi, Yugeng	Shanghai Jiao Tong Univ.
Co-Chair: Cogill, Randy	Univ. of Virginia
14:10-14:30	FrB16.1
<i>Spectral Multiscale Coverage: A Uniform Coverage Algorithm for Mobile Sensor Networks</i> , pp. 7872-7877.	
Mathew, George	Univ. of California, Santa Barbara
Mezic, Igor	Univ. of California, Santa Barbara
14:30-14:50	FrB16.2
<i>Optimal Sensor Placement for Time Difference of Arrival Localization</i> , pp. 7878-7884.	
Isaacs, Jason T.	Univ. of California, Santa Barbara
Klein, Daniel J.	Univ. of California, Santa Barbara
Hespanha, Joao P.	Univ. of California, Santa Barbara
14:50-15:10	FrB16.3
<i>On the Global Convergence of a Class of Distributed Algorithms for Maximizing the Coverage of a WSN</i> , pp. 7885-7890.	
Fontanelli, Daniele	Univ. of Trento
Palopoli, Luigi	Univ. of Trento
Passerone, Roberto	Univ. of California at Berkeley
15:10-15:30	FrB16.4
<i>Distributed Cooperative Coverage and Connectivity Maintenance for Mobile Sensing Devices</i> , pp. 7891-7896.	
Li, Xiaoli	Shanghai Jiao Tong Univ.
Xi, Yugeng	Shanghai Jiao Tong Univ.
15:30-15:50	FrB16.5
<i>Decentralized Control of a Mobile Sensor Network for Deployment in Corridor Coverage</i> , pp. 7897-7902.	
Cheng, Teddy M.	Univ. of New South Wales
Savkin, Andrey V.	Univ. of New South Wales
15:50-16:10	FrB16.6
<i>An Adaptive Artificial Potential Function Approach for Geometric Sensing</i> , pp. 7903-7910.	
Zhang, Guoxian	Duke Univ.
Ferrari, Silvia	Duke Univ.

FrB17

5H

Stabilization of Networked Control Systems (Regular Session)

Chair: Heemels, Maurice	Eindhoven Univ. of Tech.
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Co-Chair: Lazar, Mircea	Eindhoven Univ. of Tech.
14:10-14:30	FrB17.1
<i>Comparison of Stability Characterisations for Networked Control Systems</i> , pp. 7911-7916.	
Hetel, Laurentiu	Ec.
Cloosterman, Marieke	Eindhoven Univ. of Tech.
Van De Wouw, Nathan	Eindhoven Univ. of Tech.
Heemels, Maurice	Eindhoven Univ. of Tech.
Daafouz, Jamal	CRAN, UMR CNRS - Nancy Univ.
Nijmeijer, Hendrik	Eindhoven Univ. of Tech.
14:30-14:50	FrB17.2
<i>Robust Stabilization of Model-Based Uncertain Singularly Perturbed Systems with Networked Time-Delay</i> , pp. 7917-7922.	
Wang, Zhiming	East China Normal Univ.
Liu, Wei	East China Normal Univ.
Dai, Haohui	East China Normal Univ.
Naidu, D. Subbaram	Idaho State Univ.
14:50-15:10	FrB17.3
<i>Switching Controller for Stabilization of Linear Systems with Switched Time-Varying Delays</i> , pp. 7923-7928.	
Jiang, Wenjuan	Ec. Centrale de Lille
Fridman, Emilia	Tel-Aviv Univ.
Kruszewski, Alexandre	Ec. Centrale de Lille
Richard, Jean-Pierre	Ec. Centrale de Lille
15:10-15:30	FrB17.4
<i>Networked and Quantized Control Systems with Communication Delays</i> , pp. 7929-7935.	
Heemels, Maurice	Eindhoven Univ. of Tech.
Nesic, Dragan	Univ. of Melbourne
Teel, Andrew R.	Univ. of California at Santa Barbara
Van De Wouw, Nathan	Eindhoven Univ. of Tech.
15:30-15:50	FrB17.5
<i>Stabilization of Networked Control Systems with Communication Constraints and Packet Dropouts</i> , pp. 7936-7941.	
Song, Hongbo	Zhejiang Univ. of Tech.
Yu, Li	Zhejiang Univ. of Tech.
Zhang, Wenan	Zhejiang Univ. of Tech.
15:50-16:10	FrB17.6
<i>Stabilization of Networked Control Systems Via Non-Monotone Control Lyapunov Functions</i> , pp. 7942-7948.	
Gielen, Rob	Eindhoven Univ. of Tech.
Lazar, Mircea	Eindhoven Univ. of Tech.
FrB18	51
Constrained Control II (Regular Session)	
Chair: Ohta, Yoshito	Kyoto Univ.
Co-Chair: Angeli, David	Imperial Coll.
14:10-14:30	FrB18.1
<i>An Abstract Linear Programming Approach to Continuous-Time LQ Control for Constrained Systems</i> , pp. 7949-7954.	
Ohta, Yoshito	Kyoto Univ.
14:30-14:50	FrB18.2
<i>Modelling and Constrained Stabilization of the Inverted Pendulum on a Cart Beam System</i> , pp. 7955-7959.	
Velupillai, Sankaranarayanan	NIT - Tiruchirappalli
Subbaraman, Anantharaman	National Inst. of Tech. - Tiruchirappalli
Alagarsamy Balasubramanian, Aswin Chandarr	National Inst. of Tech. - Tiruchirappalli
Sri, Adarsh	National Inst. of Tech.
14:50-15:10	FrB18.3
<i>Robust Periodic Reference Tracking for Uncertain Linear Systems Subject to Control Saturation</i> , pp. 7960-7965.	
Flores, Jeferson Vieira	UFRGS
Gomes Da Silva Jr., Joao Manoel	Univ. Federal do Rio Grande do Sul
Sbarbaro, Daniel G.	Univ. de Concepcion
15:10-15:30	FrB18.4
<i>Simultaneous L_p-Stabilization and Internal Stabilization for Linear Singular Systems Subject to Input Saturation</i> , pp. 7966-7971.	
Zhou, Lei	Nantong Univ.
Xiao, Xiaoqing	Nantong Univ.
Lu, Guoping	Nantong Univ.
15:30-15:50	FrB18.5
<i>Receding Horizon Cost Optimization for Overly Constrained Nonlinear Plants</i> , pp. 7972-7977.	
Angeli, David	Imperial Coll.
Rawlings, James B.	Univ. of Wisconsin-Madison
Amrit, Rishi	Univ. of Wisconsin - Madison
15:50-16:10	FrB18.6
<i>MPC for Tracking of Constrained Nonlinear Systems</i> , pp. 7978-7983.	
Ferramosca, Antonio	Univ. of Seville
Limon, Daniel	Univ. de Sevilla

Alvarado, Ignacio
Alamo, Teodoro
Camacho, Eduardo F.

Univ. of Seville
Univ. de Sevilla
Univ. of Sevilla

FrC01	3D
Stability and Stabilization II (Regular Session)	
Chair: Lin, Zongli Co-Chair: Guay, Martin	Univ. of Virginia Queen's Univ.
16:30-16:50	FrC01.1
<i>Norm Vanishment and Its Applications in Constrained Control Part II: The $L_{\{2\}}$ Case</i> , pp. 7984-7989.	
Zhou, Bin Lin, Zongli Duan, Guang-Ren	Harbin Inst. of Tech. Univ. of Virginia Harbin Inst. of Tech.
16:50-17:10	FrC01.2
<i>Norm Vanishment and Its Applications in Constrained Control-Part I: The $L_{\{infinity\}}$ Case</i> , pp. 7990-7995.	
Zhou, Bin Lin, Zongli Duan, Guang-Ren	Harbin Inst. of Tech. Univ. of Virginia Harbin Inst. of Tech.
17:10-17:30	FrC01.3
<i>A Vector Small-Gain Theorem for General Nonlinear Control Systems</i> , pp. 7996-8001.	
Karafyllis, Iasson Jiang, Zhong-Ping	Tech. Univ. of Crete Pol. Inst. NYU
17:30-17:50	FrC01.4
<i>A Unified Approach to Generating Series for Nonlinear Cascade Systems</i> , pp. 8002-8007.	
Gray, W. Steven	Old Dominion Univ.
17:50-18:10	FrC01.5
<i>Construction of Control Lyapunov Functions for Damping Stabilization of Control Affine Systems</i> , pp. 8008-8013.	
Hudon, Nicolas Guay, Martin	Queen's Univ. Queen's Univ.
18:10-18:30	FrC01.6
<i>On Semistability of Nonlinear Switched Systems</i> , pp. 8014-8019.	
Hui, Qing Haddad, Wassim M.	Texas Tech. Univ. Georgia Inst. of Tech.
FrC02	3E
MPC: Theory and Applications (Regular Session)	
Chair: Sato, Masayuki Co-Chair: Xie, Lihua	Japan Aerospace Exploration Agency Nanyang Tech. Univ.
16:30-16:50	FrC02.1
<i>MPC for Tracking Target Sets</i> , pp. 8020-8025.	
Ferramosca, Antonio Limon, Daniel Gonzalez, Alejandro H. Odloak, Darci Camacho, Eduardo F.	Univ. of Seville Univ. de Sevilla CONICET Univ. of São Paulo - Brazil Univ. of Sevilla
16:50-17:10	FrC02.2
<i>Disturbance Suppression Via Robust MPC Using Prior Disturbance Data -Application to Flight Controller Design for Gust Alleviation</i> , pp. 8026-8033.	
Sato, Masayuki Yokoyama, Nobuhiro Satoh, Atsushi	Japan Aerospace Exploration Agency National Defense Acad. Iwate Univ.
17:10-17:30	FrC02.3
<i>Dynamic Output Feedback Robust Model Predictive Control with Guaranteed Quadratic Boundedness</i> , pp. 8034-8039.	
Ding, Baocang Xie, Lihua	Chongqing Univ. Nanyang Tech. Univ.
17:30-17:50	FrC02.4
<i>Time Optimal MPC for Mechatronic Applications</i> , pp. 8040-8045.	
Van den Broeck, Lieboud Diehl, Moritz Swevers, Jan	K. U. Leuven Katholieke Univ. Leuven K. U. Leuven
17:50-18:10	FrC02.5
<i>Robust Extended Kalman Filter Based Nonlinear Model Predictive Control Formulation</i> , pp. 8046-8051.	
Huang, Rui Patwardhan, Sachin Biegler, Lorenz T.	Carnegie Mellon Univ. IIT Bombay Carnegie Mellon Univ.
18:10-18:30	FrC02.6
<i>On Modelling Approaches for Receding-Horizon Control Design Applied to Large-Scale Sewage Systems</i> , pp. 8052-8058.	
Ocampo-Martinez, Carlos Puig, Vicenc	Inst. de Robotica i Informatica Industrial (CSIC-UPC) Univ. Pol. de Catalunya

FrC03	3C
Estimation in Mechanical and Energy Systems (Regular Session)	
Chair: Fu, Minyue	Univ. of Newcastle
Co-Chair: Yau, Stephen S.-T.	Univ. of Illinois at Chicago
16:30-16:50	FrC03.1
<i>A Reset Kinematic State Estimator to Suppress Sensor Quantization for Enhanced Position Tracking Control</i> , pp. 8059-8064.	
Zheng, Jinchuan	The Univ. of Newcastle, Australia
Fu, Minyue	Univ. of Newcastle
16:50-17:10	FrC03.2
<i>Experimental Comparison of Observers for Tool Position Estimation of Industrial Robots</i> , pp. 8065-8070.	
Henriksson, Robert	Linköping Univ.
Norrlof, Mikael	Linköping Univ.
Moberg, Stig	ABB Robotics
Wernholt, Erik	Linköping Univ. Sweden
Schon, Thomas (Bo)	Linköping Univ.
17:10-17:30	FrC03.3
<i>Attitude Observers for Accelerated Rigid Bodies Based on GPS and INS Measurements</i> , pp. 8071-8076.	
Hua, Minh-Duc	INRIA
17:30-17:50	FrC03.4
<i>Attitude Estimation with Gyros-Bias Compensation Using Low-Cost Sensors</i> , pp. 8077-8082.	
El-Hadri, AbdelHafid	Versailles Univ.
Benallegue, Abdelaziz	Univ. of Versailles St Quentin
17:50-18:10	FrC03.5
<i>The Mix Estimation Algorithm for Battery State-Of-Charge Estimator – Analysis of the Sensitivity to Measurement Errors</i> , pp. 8083-8088.	
Codecá, Fabio	Pol. di Milano
Savaresi, Sergio M.	Pol. Di Milano
Manzoni, Vincenzo	Pol. di Milano
18:10-18:30	FrC03.6
<i>Schrodinger Equation with Quartic Potential and Nonlinear Filtering Problem</i> , pp. 8089-8094.	
Yau, Stephen S.-T.	Univ. of Illinois at Chicago
Chang, Der-Chen	Georgetown Univ.
Lin, Ke-pao	Chang Gung Inst. of Tech.
FrC04	3A
Behavioral Systems and Control Theory (Invited Session)	
Chair: Rapisarda, Paolo	Univ. of Southampton
Co-Chair: Takaba, Kiyotsugu	Kyoto Univ.
Organizer: Rapisarda, Paolo	Univ. of Southampton
Organizer: Takaba, Kiyotsugu	Kyoto Univ.
16:30-16:50	FrC04.1
<i>Identifiability of Clock Synchronization Errors: A Behavioural Approach (I)</i> , pp. 8095-8100.	
Przedwojski, Marek	Univ. of Southampton
Markovsky, Ivan	Univ. of Southampton
Rogers, Eric	Univ. of Southampton
16:50-17:10	FrC04.2
<i>Groebner Bases and Behaviors Over Finite Rings (I)</i> , pp. 8101-8106.	
Kuijper, Margreta	Univ. of Melbourne
Schindelar, Kristina	RWTH Aachen Univ.
17:10-17:30	FrC04.3
<i>Small Gain Theorem and Optimal Robust Stabilization in a Behavioral Framework (I)</i> , pp. 8107-8112.	
Trentelman, Harry L.	Univ. of Groningen
Fiaz, Shaik	Univ. of Groningen
Takaba, Kiyotsugu	Kyoto Univ.
17:30-17:50	FrC04.4
<i>Path Integrals and Bezoutians for Pseudorational Transfer Functions (I)</i> , pp. 8113-8118.	
Yamamoto, Yutaka	Kyoto Univ.
Willems, Jan C.	K.U. Leuven
17:50-18:10	FrC04.5
<i>Implementation of Autonomous Multidimensional Behaviors (I)</i> , pp. 8119-8123.	
Napp, Diego	Univ. of Aveiro
Rocha, Paula	Univ. of Oporto
18:10-18:30	FrC04.6
<i>The Behavior of Resistive Circuits (I)</i> , pp. 8124-8129.	
Willems, Jan C.	K.U. Leuven
Verriest, Erik I.	Georgia Inst. of Tech.
FrC05	3J
Sampled-Data Control (Regular Session)	

Chair: Bitmead, Robert	Univ. of California San Diego
Co-Chair: Seuret, Alexandre	CNRS
16:30-16:50	FrC05.1
<i>Stability Analysis for Sampled-Data Systems with a Time-Varying Period</i> , pp. 8130-8135.	
Seuret, Alexandre	CNRS
16:50-17:10	FrC05.2
<i>Robust Repetitive Control by Sampled-Data H-Infinity Filters</i> , pp. 8136-8141.	
Nagahara, Masaaki	Kyoto Univ.
Yamamoto, Yutaka	Kyoto Univ.
17:10-17:30	FrC05.3
<i>Stability and Stabilization of Aperiodic Sampled-Data Control Systems: An Approach Using Robust Linear Matrix Inequalities</i> , pp. 8142-8147.	
Oishi, Yasuaki	Nanzan Univ.
Fujioka, Hisaya	Kyoto Univ.
17:30-17:50	FrC05.4
<i>Rejection of Aliased Disturbances in a Pulsed Light Source</i> , pp. 8148-8153.	
Riggs, Daniel	Cymer, Inc.
Bitmead, Robert	Univ. of California San Diego
17:50-18:10	FrC05.5
<i>Optimization-Based Digital Redesign of Analogue Controllers</i> , pp. 8154-8159.	
Polyakov, Konstantin	State Univ. of Ocean Tech.
Rosenwasser, Efim N.	Marine Tech. Univ. of Saint Petersburg
Lampe, Bernhard P.	Univ. of Rostock
18:10-18:30	FrC05.6
<i>Modeling and Design of LTI Controllers for Multirate Systems</i> , pp. 8160-8165.	
Cimino, Mauro	Oklahoma State Univ.
Pagilla, Prabhakar R.	Oklahoma State Univ.

FrC06	3G
Control of Robotic Manipulators and Bipedal Walking Robots (Regular Session)	
Chair: Gregg, Robert D.	Univ. of Illinois, Urbana-Champaign
Co-Chair: Scheint, Michael	Tech. Univ. Muenchen
16:30-16:50	FrC06.1
<i>Reduction-Based Control of Branched Chains: Application to Three-Dimensional Bipedal Torso Robots</i> , pp. 8166-8173.	
Gregg, Robert D.	Univ. of Illinois, Urbana-Champaign
Spong, Mark W.	Univ. of Texas at Dallas
16:50-17:10	FrC06.2
<i>Stability Analysis of Adaptive Jacobian Controller for Free-Floating Space Manipulators</i> , pp. 8174-8179.	
Wang, Hanlei	Beijing Inst. of Control Engineering, Chinese Acad. of Spa
Xie, Yongchun	Beijing Inst. of Control Engineering
17:10-17:30	FrC06.3
<i>Virtual Holonomic Constraint Approach for Planar Bipedal Walking Robots Extended to Double Support</i> , pp. 8180-8185.	
Scheint, Michael	Tech. Univ. Muenchen
Sobotka, Marion	TU Muenchen
Buss, Martin	Tech. Univ. Muenchen
17:30-17:50	FrC06.4
<i>Coordination Control of Parallel Manipulators with Actuation Redundancy</i> , pp. 8186-8191.	
Shang, Weiwei	Univ. of Science and Tech. of China
Cong, Shuang	Univ. of Science and Tech. of China
Jiang, Shilong	Googol Tech. Ltd
17:50-18:10	FrC06.5
<i>Stability Analysis of Grasped Object by Soft-Fingers with 3-Dimensional Deformation Based on Moment Stability</i> , pp. 8192-8199.	
Nakashima, Akira	Nagoya Univ.
Hayakawa, Yoshikazu	Nagoya Univ.
18:10-18:30	FrC06.6
<i>Three-Dimensional Quasi-Passive Dynamic Bipedal Walking with Flat Feet and Compliant Ankles</i> , pp. 8200-8205.	
Wang, Qining	Peking Univ.
Wang, Long	Peking Univ.
Huang, Yan	Peking Univ.
Zhu, Jinying	Peking Univ.
Chen, Wei	Peking Univ.

FrC07	5C
Observer Design (Regular Session)	
Chair: Mirmirani, Maj Dean	Embry-Riddle Aeronautical Univ.
Co-Chair: Perruquetti, Wilfrid	Ec. Centrale de Lille
16:30-16:50	FrC07.1
<i>LPV Approach to Continuous and Discrete Nonlinear Observer Design</i> , pp. 8206-8211.	
Ibrir, Salim	Univ. of Trinidad and Tobago

16:50-17:10		FrC07.2
<i>Estimation Delay Compensation in High-Gain Observer-Based Parameter Identification</i> , pp. 8212-8217.		
Dai, Xuewu		Southwest Univ.
Gao, Zhiwei		Tianjin Univ.
Breikin, T. V.		Univ. of Sheffield
Wang, Hong		The Univ. of Manchester
17:10-17:30		FrC07.3
<i>State and Parameter Estimation for Linear Systems with Nonlinearly Parameterized Perturbations</i> , pp. 8218-8225.		
Grip, Håvard Fjær		NTNU
Saberi, Ali		Washington State Univ.
Johansen, Tor Arne		Norwegian Univ. of Science & Tech.
17:30-17:50		FrC07.4
<i>Cascade High Gain Observers for Nonlinear Systems with Delayed Output Measurement</i> , pp. 8226-8231.		
Ahmed-Ali, Tarek		ENSIETA
Cherrier, Estelle		GREYC ENSICAEN
M'Saad, Mohammed		ENSI CAEN
17:50-18:10		FrC07.5
<i>Observer Design for a Class of Nonlinear Descriptor Systems</i> , pp. 8232-8237.		
Yang, Chunyu		Northeastern Univ.
Zhang, Qingling		Northeastern Univ.
Chai, Tianyou		Northeastern Univ.
18:10-18:30		FrC07.6
<i>Error Analysis for a Class of Numerical Differentiator: Application to State Observation</i> , pp. 8238-8243.		
Liu, Dayan		INRIA
Gibaru, Olivier		ARTS ET METIERS PARISTECH
Perruquetti, Wilfrid		Ec. Centrale de Lille

FrC08		3I
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Fluid Flow Systems (Regular Session)	
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Chair: Aamo, Ole Morten		NTNU
Co-Chair: Werner, Herbert		Hamburg Univ. of Tech.
16:30-16:50		FrC08.1
<i>A First Principle Model for Multiphase Slugging Flow in Vertical Risers</i> , pp. 8244-8251.		
Di Meglio, Florent		Ec. des Mines de Paris
Kaasa, Glenn-Ole		StatoilHydro ASA
Petit, Nicolas		MINES ParisTech
16:50-17:10		FrC08.2
<i>Model-Based Stabilization of Vortex Shedding with CFD Verification</i> , pp. 8252-8257.		
Milovanovic, Milan		NTNU
Gayer, Marek		NTNU
Michielsen, Joris		TU Eindhoven
Aamo, Ole Morten		NTNU
17:10-17:30		FrC08.3
<i>Inverse Modeling for Open Boundary Conditions in Channel Network</i> , pp. 8258-8265.		
Wu, Qingfang		Univ. of California, Berkeley
Rafiee, Mohammad		Univ. of California, Berkeley
Tinka, Andrew		Univ. of California at Berkeley
Bayen, Alexandre M.		Univ. of California at Berkeley
17:30-17:50		FrC08.4
<i>Kalman Filter Based Estimation of Flow States in Open Channels Using Lagrangian Sensing</i> , pp. 8266-8271.		
Rafiee, Mohammad		Univ. of California, Berkeley
Wu, Qingfang		Univ. of California, Berkeley
Bayen, Alexandre M.		Univ. of California at Berkeley
17:50-18:10		FrC08.5
<i>Boundary Feedback Control for Heat Exchange Enhancement in 2D Magnetohydrodynamic Channel Flow by Extremum Seeking</i> , pp. 8272-8277.		
Luo, Lixiang		Lehigh Univ.
Schuster, Eugenio		Lehigh Univ.
18:10-18:30		FrC08.6
<i>Robust Transition Control in Non-Periodic Channels</i> , pp. 8278-8283.		
Chughtai, Saulat Shuja		Hamburg Univ. of Tech.
Werner, Herbert		Hamburg Univ. of Tech.

FrC09		3H
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MEMS and Nano Systems (Regular Session)	
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Chair: Xie, Ping		Iowa State Univ.
Co-Chair: Tejada, Arturo		Delft Univ. of Tech.
16:30-16:50		FrC09.1
<i>An Adaptive Filtering Approach to Dynamics Effect Compensation in Nanoscale Broadband Viscoelasticity Measurements of Soft Materials</i> ,		

pp. 8284-8289.		
Xie, Ping		Yan Shan Univ.
Zou, Qingze		Iowa State Univ.
Xu, Zhonghua		Iowa State Univ.
Xu, Hongbing		Univ. of Electronic Science and Tech. of China
16:50-17:10		FrC09.2
<i>A Maximum-Likelihood Detection Scheme for Rapid Imaging of String-Like Samples in Atomic Force Microscopy</i> , pp. 8290-8295.		
Chang, Peter		Boston Univ.
Andersson, Sean		Boston Univ.
17:10-17:30		FrC09.3
<i>Iterative Calibration Method for Inertial and Magnetic Sensors</i> , pp. 8296-8303.		
Dorveaux, Eric		MINES ParisTech
Vissière, David		SYSNAV
Martin, Alain		LRBA Vernon
Petit, Nicolas		MINES ParisTech
17:30-17:50		FrC09.4
<i>Configuration Design and Performance Analysis of a Multidimensional Acceleration Sensor Based on 3RRPRR Decoupling Parallel Mechanism</i> , pp. 8304-8309.		
Zhang, Dan		Univ. of Ontario Inst. of Tech.
Gao, Zhen		Chinese Acad. of Sciences
Song, Bo		Univ. of Science and Tech. of China
Ge, Yunjian		1.Inst. of Intelligent Machines, Chinese Acad. of Sciences
17:50-18:10		FrC09.5
<i>Towards STEM Control: Modeling Framework and Development of a Sensor for Defocus Control</i> , pp. 8310-8315.		
Tejada Ruiz, Arturo		Delft Univ. of Tech.
Van Den Broek, Wouter		Univ. of Antwerp
van der Hoeven, Saartje		Tech. Univ. of Delft
den Dekker, Arnold J.		Delft Univ. of Tech.
18:10-18:30		FrC09.6
<i>Data Based Modeling and Control of a Dual-Stage Actuator Hard Disk Drive</i> , pp. 8316-8321.		
Boettcher, Uwe		Univ. of California, San Diego
de Callafon, Raymond A.		Univ. of California, San Diego
Talke, Frank E.		Univ. of California, San Diego

FrC10		5D
Formation Control (Regular Session)		
Chair: Hadaegh, Fred Y.		California Inst. of Tech.
Co-Chair: Anderson, Brian D.O.		Australian National Univ.
16:30-16:50		FrC10.1
<i>Robust Controller Design for Formation Flight of Quad-Rotor Helicopters</i> , pp. 8322-8327.		
Pilz, Ulf		Hamburg Univ. of Tech.
Popov, Andrey		Hamburg Univ. of Tech.
Werner, Herbert		Hamburg Univ. of Tech.
16:50-17:10		FrC10.2
<i>Formation Control of Unicycle Mobile Robots: A Virtual Structure Approach</i> , pp. 8328-8333.		
van den Broek, Thijs H.A.		TNO Automotive
Van De Wouw, Nathan		Eindhoven Univ. of Tech.
Nijmeijer, Hendrik		Eindhoven Univ. of Tech.
17:10-17:30		FrC10.3
<i>Control of Coleader Formations in the Plane</i> , pp. 8334-8339.		
Summers, Tyler		Univ. of Texas at Austin
Yu, CHANGBIN (Brad)		The Australian National Univ.
Anderson, Brian D.O.		Australian National Univ.
Dasgupta, Soura		Univ. of Iowa
17:30-17:50		FrC10.4
<i>Formation Control of Multiple Nonholonomic Mobile Robots Based on Cascade Design</i> , pp. 8340-8344.		
Cao, Ke-Cai		Nanjing Univ. of Posts and Telecommunications
17:50-18:10		FrC10.5
<i>Translation Control of a Fleet Circular Formation of AUVs under Finite Communication Range</i> , pp. 8345-8350.		
Briñon Arranz, Lara		INRIA Rhône-Alpes
Canudas de Wit, Carlos		CNRS, GIPSA-Lab.
Seuret, Alexandre		CNRS
18:10-18:30		FrC10.6
<i>Decentralized Receding Horizon Control for Multiple Unmanned Helicopters Considering Dynamics Model</i> , pp. 8351-8356.		
He, Yuqing		Shenyang Inst. of Automation, CAS
Han, Jianda		Shenyang Inst. of Automation

FrC11		5J
Modeling Methodology (Regular Session)		

Chair: Dochain, Denis	Univ. Catholique de Louvain
Co-Chair: Lovera, Marco	Pol. di Milano
16:30-16:50	FrC11.1
<i>Integrated Modelling and Parameter Estimation: An LFT-Modelica Approach</i> , pp. 8357-8362.	
Donida, Filippo	Pol. di Milano
Romani, Carlo	Pol. di Milano
Casella, Francesco	Pol. di Milano
Lovera, Marco	Pol. di Milano
16:50-17:10	FrC11.2
<i>The Kullback-Leibler Rate Metric for Comparing Dynamical Systems</i> , pp. 8363-8368.	
Sun, Yu	Univ. of Illinois, Urbana-Champaign
Mehta, Prashant G.	Univ. of Illinois, Urbana-Champaign
17:10-17:30	FrC11.3
<i>Dynamical Systems Complexity with a View towards Air Traffic Management Applications</i> , pp. 8369-8374.	
Puechmorel, Stephane	ENAC
Daniel, Delahaye	ENAC
17:30-17:50	FrC11.4
<i>A New Soft Sensor Modeling Method Based on Modified AdaBoost with Incremental Learning</i> , pp. 8375-8380.	
Tian, Huixin	Tianjin Pol. Univ.
Wang, An-na	Northeastern Univ.
Mao, Zhi-zhong	Northeastern Univ.
17:50-18:10	FrC11.5
<i>A Multiplay Model for Rate-Independent and Rate-Dependent Hysteresis with Nonlocal Memory</i> , pp. 8381-8386.	
Drincic, Bojana	Univ. of Michigan
Bernstein, Dennis S.	Univ. of Michigan
18:10-18:30	FrC11.6
<i>A Geometric Perspective to Open Irreversible Thermodynamic Systems: GENERIC, Matrix and Port-Contact Systems</i> , pp. 8387-8392.	
Favache, Audrey	Univ. catholique de Louvain
Dochain, Denis	Univ. Catholique de Louvain
Maschke, Bernhard	Univ. Claude Bernard of Lyon

FrC12 5E

Advances in Higher Order Sliding Mode Observation and Output Control (Invited Session)

Chair: Fridman, Leonid M.	National Autonomous Univ.
Co-Chair: Plestan, Franck	Ec. Centrale De Nantes-CNRS
Organizer: Fridman, Leonid M.	National Autonomous Univ.
16:30-16:50	FrC12.1
<i>Unbounded Unknown Inputs Estimation Based on High-Order Sliding Mode Differentiator (I)</i> , pp. 8393-8398.	
Bejarano, Francisco Javier	Univ. Nacional Autonoma de México (UNAM)
Fridman, Leonid M.	National Autonomous Univ.
16:50-17:10	FrC12.2
<i>Non-Homogeneous Finite-Time-Convergent Differentiator (I)</i> , pp. 8399-8404.	
Levant, Arie	Tel - Aviv Univ.
17:10-17:30	FrC12.3
<i>Optimal Lyapunov Function Selection for Reaching Time Estimation of Super Twisting Algorithm (I)</i> , pp. 8405-8410.	
DÁvila Merida, Israel Alejandro	UNAM
Moreno, Jaime A.	Univ. Nacional Autonoma
Fridman, Leonid M.	National Autonomous Univ.
17:30-17:50	FrC12.4
<i>Reduced-Order Observer and Chattering Reduction for Sliding Mode Control of Nonlinear Systems (I)</i> , pp. 8411-8416.	
Bartolini, Giorgio	Univ. of Cagliari
Punta, Elisabetta	National Res. Council of Italy
17:50-18:10	FrC12.5
<i>Output Feedback Sliding Mode Control of Time Delay Systems with Bounded Disturbances (I)</i> , pp. 8417-8422.	
Han, Xiaoran	Univ. of Kent
Fridman, Emilia	Tel-Aviv Univ.
Spurgeon, Sarah K.	Univ. of Kent
18:10-18:30	FrC12.6
<i>Output Feedback Sampling Control: A Robust Solution Based on Second Order Sliding Mode (I)</i> , pp. 8423-8427.	
Plestan, Franck	Ec. Centrale De Nantes-CNRS
Moulay, Emmanuel	Ec. Centrale de Nantes
Glumineau, Alain	Ec. Centrale Nantes

FrC13 5A

Visual Servo Control (Regular Session)

Chair: Fontanelli, Daniele	Univ. of Trento
Co-Chair: Dixon, Warren E.	Univ. of Florida
16:30-16:50	FrC13.1
<i>Visual Servoing of Nonholonomic Mobile Robots Based on a New Motion Estimation Technique</i> , pp. 8428-8433.	

Zhang, Xuebo	Nankai Univ.
Fang, Yongchun	Nankai Univ.
Liu, Xi	Nankai Univ.
16:50-17:10	FrC13.2
<i>Shortest Paths for Non-Holonomic Vehicles with Limited Field of View Camera</i> , pp. 8434-8439.	
Salaris, Paolo	Faculty of Engineering - Univ. of Pisa
Fontanelli, Daniele	Univ. of Trento
Pallottino, Lucia	Univ. of Pisa
Bicchi, Antonio	Univ. di Pisa
17:10-17:30	FrC13.3
<i>Black-Box Modeling of a 2-DOF Manipulator in the Image Plane Using Recurrent Neurofuzzy Networks</i> , pp. 8440-8445.	
Gonzalez-Olvera, Marcos A.	National Autonomous Univ. of Mexico (UNAM)
Rodriguez-Morales, Angel Luis	Univ. Nacional Autónoma de México
Tang, Yu	National Univ. of Mexico
17:30-17:50	FrC13.4
<i>Nonuniformity Correction and Calibration Method in the High-Precision CCD Measurement and Servo Control System</i> , pp. 8446-8451.	
Li, Jing	Beijing Inst. of Tech.
Wang, Junzheng	Beijing Inst. of Tech.
Zhou, Bin	Beijing Inst. of Tech.
Shen, Wei	Beijing Inst. of Tech.
17:50-18:10	FrC13.5
<i>A Novel Algorithm for Refinement of Vision-Based Two-View Pose Estimates</i> , pp. 8452-8457.	
Mehta, Siddhartha	Univ. of Florida
Barooah, Prabir	Univ. of Florida
Dixon, Warren E.	Univ. of Florida
Susca, Sara	Univ. of California, Santa Barbara
18:10-18:30	FrC13.6
<i>Combined Line-Of-Sight Inertial Stabilization and Visual Tracking: Application to an Airborne Camera Platform</i> , pp. 8458-8463.	
Hurak, Zdenek	Czech Tech. Univ.
Rezac, Martin	Czech Tech. Univ. in Prague

FrC14 5B

Fault Tolerant Systems II (Regular Session)	
Chair: Patton, Ron J.	Univ. of Hull
Co-Chair: Shumsky, Alexey	Inst. for Marine Tech. Problems
16:30-16:50	FrC14.1
<i>Fault Accommodation in Dynamic Systems: Fault Decoupling Based Approach</i> , pp. 8464-8469.	
Zhirabok, Alexey	Far Eastern State Tech. Univ.
Shumsky, Alexey	Inst. for Marine Tech. Problems
Jiang, Bin	Nanjing Univ. of Aeronautics & Astronautics
Zhang, Ke	Nanjing Univ. of Aeronautics and Astronautics
16:50-17:10	FrC14.2
<i>Fault Tolerant Control - a Residual Based Set-Up</i> , pp. 8470-8475.	
Niemann, Henrik	Tech. Univ. of Denmark
Poulsen, Niels Kjrlstad	Tech. Univ. of Denmark
17:10-17:30	FrC14.3
<i>Automated Fault Tolerant Control Synthesis Based on Discrete Games</i> , pp. 8476-8481.	
Grunnet, Jacob Deleuran	Aalborg Univ.
Bendtsen, Jan Dimon	Aalborg Univ.
Bak, Thomas	Aalborg Univ.
17:30-17:50	FrC14.4
<i>Actuator Fault Estimation and Compensation Based on an Augmented State Observer Approach</i> , pp. 8482-8487.	
Patton, Ron J.	Univ. of Hull
Klinkhieo, Supat	The Univ. of Hull
17:50-18:10	FrC14.5
<i>Lateral Imbalance Detection on a UAV Based on Multiple Models</i> , pp. 8488-8493.	
Fekri, Sajjad	Univ. of Leicester
Gu, Dawei	Univ. of Leicester
Postlethwaite, Ian	Univ. of Leicester
18:10-18:30	FrC14.6
<i>Switching-Based Fault-Tolerant Control for an F-16 Aircraft with Thrust Vectoring</i> , pp. 8494-8499.	
Lu, Bei	California State Univ. Long Beach
Wu, Fen	North Carolina State Univ.

FrC15 3B

New Developments in Stochastic Analysis, Systems and Control (Invited Session)	
Chair: Pasik-Duncan, Bozenna	Univ. of Kansas
Co-Chair: Kumar, P. R.	Univ. of Illinois, Urbana-Champaign
Organizer: Pasik-Duncan, Bozenna	Univ. of Kansas

Organizer: Kumar, P. R.	Univ. of Illinois, Urbana-Champaign
16:30-16:50	FrC15.1
<i>On Nonlinear State Estimation in a Riemannian Manifold (I)</i> , pp. 8500-8505.	
Solo, Victor	Univ. of New South Wales
16:50-17:10	FrC15.2
<i>Irregular Sampling, Active Observability, and Convergence Rates of State Observers for Systems with Binary-Valued Observations (I)</i> , pp. 8506-8511.	
Li, Chanying	Wayne State Univ.
Wang, Le Yi	Wayne State Univ.
Yin, George	Wayne State Univ.
Guo, Lei	Chinese Acad. of Sciences
Xu, Chengzhong	Wayne State Univ.
17:10-17:30	FrC15.3
<i>Singular Control and Impulse Control with Application to Mutual Insurance Optimization (I)</i> , pp. 8512-8517.	
Bensoussan, Alain	UTD Univ. of Texas at Dallas
Liu, John	The Hong Kong Pol. Univ.
Yuan, Jiguang	The Hong Kong Pol. Univ.
17:30-17:50	FrC15.4
<i>Control of Some Linear Stochastic Systems with a Fractional Brownian Motion (I)</i> , pp. 8518-8522.	
Duncan, Tyrone E.	Univ. of Kansas
Pasik-Duncan, Bozena	Univ. of Kansas
17:50-18:10	FrC15.5
<i>Context-Dependent Multi-Class Classification with Unknown Observation and Class Distributions with Applications to Bioinformatics (I)</i> , pp. 8523-8530.	
Baras, Alex	Univ. of Virginia
Baras, John S.	Univ. of Maryland
18:10-18:30	FrC15.6
<i>Dynamic Pricing with Continuous Stochastic Demand (I)</i> , pp. 8531-8536.	
Wang, Yongqiang	Univ. of Maryland--Coll. Park
Fu, Michael C.	Univ. of Maryland
Marcus, Steve	Univ. of Maryland

FrC16	5F
Detection, Tracking, and Surveillance in Sensor Networks (Regular Session)	
Chair: Pappas, George J.	Univ. of Pennsylvania
Co-Chair: Bullo, Francesco	Univ. California at Santa Barbara
16:30-16:50	FrC16.1
<i>The Problem of Target Following Based on Range-Only Measurements for Car-Like Robots</i> , pp. 8537-8542.	
Matveev, Alexey S.	St.Petersburg Univ.
Teimoori Sangani, Hamid	Univ. of New South Wales
Savkin, Andrey V.	Univ. of New South Wales
16:50-17:10	FrC16.2
<i>A Dynamic Boundary Guarding Problem with Translating Targets</i> , pp. 8543-8548.	
Smith, Stephen L.	Massachusetts Inst. of Tech.
Bopardikar, Shaunak D.	Univ. of California, Santa Barbara
Bullo, Francesco	Univ. California at Santa Barbara
17:10-17:30	FrC16.3
<i>Multiple Target Detection Using Bayesian Learning</i> , pp. 8549-8554.	
Nair, Sujit	California Inst. of Tech.
Chevva, Konda Reddy	United Tech. Res. Center
Owhadi, Houman	Caltech
Marsden, Jerrold E.	California Inst. of Tech.
17:30-17:50	FrC16.4
<i>Symmetric Probabilistic Values for Identifying Informative Sensors</i> , pp. 8555-8560.	
Ghassemi, Farhad	Univ. of British Columbia
Krishnamurthy, Vikram	Univ. of British Columbia
17:50-18:10	FrC16.5
<i>Resource Allocation for Signal Detection with Active Sensors</i> , pp. 8561-8566.	
Le Ny, Jerome	Univ. of Pennsylvania
Zavlanos, Michael M.	Univ. of Pennsylvania
Pappas, George J.	Univ. of Pennsylvania
18:10-18:30	FrC16.6
<i>On a Stochastic Robotic Surveillance Problem</i> , pp. 8567-8574.	
Shrivastava, Kunal	Univ. of Illinois, Urbana-Champaign
Stipanovic, Dusan M.	Univ. of Illinois, Urbana-Champaign
Spong, Mark W.	Univ. of Texas at Dallas

FrC17	5H
Game Theory Applied to Network Analysis and Control (Regular Session)	

Chair: Pavel, Lacra Co-Chair: Jia, Peng	Univ. of Toronto McGill Univ.
16:30-16:50 <i>A Control Theoretic Approach to Noncooperative Game Design</i> , pp. 8575-8580.	FrC17.1
Alpcan, Tansu Pavel, Lacra Stefanovic, Nem	Berlin Tech. Univ. Univ. of Toronto Univ. of Toronto
16:50-17:10 <i>Opportunistic Scheduling in Cellular Systems in the Presence of Non-Cooperative Mobiles</i> , pp. 8581-8587.	FrC17.2
Veeraruna, Kavitha Altman, Eitan El-Azouzi, Rachid Sundaresan, Rajesh	INRIA INRIA Univ. d'avignon Indian Inst. of Science
17:10-17:30 <i>Bertrand Games in Multi-Class Queues</i> , pp. 8588-8593.	FrC17.3
Jain, Rahul Dube, Parijat	Univ. of Southern California IBM Watson Res. Center
17:30-17:50 <i>Interaction of Service Providers in Task Delegation under Simple Payment Rules</i> , pp. 8594-8599.	FrC17.4
La, Richard J. Mo, Jeonghoon	Univ. of Maryland, Coll. Park Yonsei Univ.
17:50-18:10 <i>Dynamic Policy-Based IDS Configuration</i> , pp. 8600-8605.	FrC17.5
Zhu, Quanyan Basar, Tamer	Univ. of Illinois, Urbana-Champaign Univ. of Illinois, Urbana-Champaign
18:10-18:30 <i>Auctions on Networks: Efficiency, Consensus, Passivity, Rates of Convergence</i> , pp. 8606-8611.	FrC17.6
Jia, Peng Caines, Peter E.	McGill Univ. McGill Univ.

FrC18

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Constrained Control III (Regular Session)

Chair: Kyriakopoulos, Kostas J. Co-Chair: Tee, Keng Peng	National Tech. Univ. of Athens Inst. for Infocomm Res.
16:30-16:50 <i>A Viability Approach for the Stabilization of an Underactuated Underwater Vehicle in the Presence of Current Disturbances</i> , pp. 8612-8617.	FrC18.1
Panagou, Dimitra Margellos, Kostas Summers, Sean Lygeros, John Kyriakopoulos, Kostas J.	National Tech. Univ. of Athens ETH Zurich ETH Zurich ETH Zurich National Tech. Univ. of Athens
16:50-17:10 <i>Control of Nonlinear Systems with Full State Constraint Using a Barrier Lyapunov Function</i> , pp. 8618-8623.	FrC18.2
Tee, Keng Peng Ge, Shuzhi Sam	Inst. for Infocomm Res. National Univ. of Singapore
17:10-17:30 <i>Existence of Feasible Approximating Trajectories for Differential Inclusions with Obstacles As State Constraints</i> , pp. 8624-8629.	FrC18.3
Bettiol, Piernicola Vinter, Richard B.	Imperial Coll. London Imperial Coll.
17:30-17:50 <i>Nonlinear Model Predictive Control Scheme: A Sum of Squares Approach</i> , pp. 8630-8635.	FrC18.4
Franze', Giuseppe Casavola, Alessandro Famularo, Domenico	Univ. Degli Studi della Calabria Univ. Della Calabria Univ. degli Studi Mediterranea di Reggio Calabria
17:50-18:10 <i>Set Membership Approximation of Discontinuous NMPC Laws</i> , pp. 8636-8641.	FrC18.5
Fagiano, Lorenzo Canale, Massimo Milanese, Mario	Pol. di Torino Pol. di Torino Pol. di Torino
18:10-18:30 <i>Model Predictive Path Following for Constrained Nonlinear Systems</i> , pp. 8642-8647.	FrC18.6
Faulwasser, Timm Kern, Benjamin Findeisen, Rolf	Otto-von-Guericke Univ. Magdeburg Otto-von-Guericke Univ. Magdeburg OVG Univ. Magdeburg