

2010 8th IEEE International Conference on Control and Automation

(ICCA 2010)

**Xiamen, China
9-11 June 2010**

Pages 1-789



**IEEE Catalog Number: CFP10537-PRT
ISBN: 978-1-4244-5195-1**

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Hangzhou Dianzi Univ.
Hangzhou Dianzi Univ.
Hangzhou Dianzi Univ.
Zhejiang Cancer Hospital
Zhejiang Cancer Hospital

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Shen, Shaoping		Xiamen Univ.
08:50-09:10		ThA1.2
<i>Zero Disturbance Planning for Space Robots During Target Capture</i> , pp. 471-475.		
Shui, Haitao		National Univ. of Defense Tech.
Li, Xun		National Univ. of Defense Tech.
Peng, Shengjun		National Univ. of Defense Tech.
Ma, Hongxu		National Univ. of Defense Tech.
09:10-09:30		ThA1.3
<i>Time Optimal Trajectory Planning for Reconfiguration of Satellite Formation with Collision Avoidance</i> , pp. 476-479.		
Ma, Guangfu		Harbin Inst. of Tech.
Huang, Haibin		Harbin Inst. of Tech.
Zhuang, Yufei		Harbin Inst. of Tech.
09:30-09:50		ThA1.4
<i>Formation Control of Spacecraft Flying with Network-Induced Delays and Packet Dropouts</i> , pp. 480-485.		
Liu, Xi		Ryerson Univ.
Kumar, Krishna		RYERSON Univ.
09:50-10:10		ThA1.5
<i>Robust Attitude Control of Flexible Spacecraft with Quality Characteristic Parameter Uncertainty</i> , pp. 486-491.		
Zhou, Yanru		School of Information Science and Tech. XiamenUniversity,
Shen, Xiaoqi		School of Information Science and Tech. XiamenUniversity,
Zeng, Jianping		School of Information Science and Tech. X
Sun, Hongfei		School of Information Science and Tech. Xiamen Univ.
ThA2		Sea Flower Hall (level 1)
Sensor/Data Fusion I (Regular Session)		
Chair: Sun, Shuli		Heilongjiang Univ.
Co-Chair: Geng, Yanrui		Univ. do Porto - Faculdade de Engenharia, VAT nr. PT501413197
08:30-08:50		ThA2.1
<i>Self-Tuning Measurement Fusion Filter for Multisensor ARMA Signal and Its Convergence</i> , pp. 492-497.		
Ran, Chenjian		Heilongjiang Univ.
Deng, Zili		Heilongjiang Univ.
08:50-09:10		ThA2.2
<i>Track-Before-Detect Algorithm Based on Dynamic Programming for Multi-Target Tracking</i> , pp. 498-503.		
Huang, Dayu		East China Univ. of Science and Tech. HangzhouDianzi
Guo, Yunfei		Hangzhou Dianzi Univ.
Xue, Anke		Hangzhou Dianzi Univ.
09:10-09:30		ThA2.3
<i>Double-Threshold Technique-Based Tracks Association in Multisensor-Multitarget Tracking</i> , pp. 504-509.		
Liu, Yansheng		Hangzhou Dianzi Univ.
Peng, Dongliang		Hangzhou Dianzi Univ.
Huang, Dayu		East China Univ. of Science and Tech. HangzhouDianzi
09:50-10:10		ThA2.5
<i>Accuracy Analysis of DVL/IMU/Magnetometer Integrated Navigation System Using Different IMUs in AUV</i> , pp. 516-521.		
Geng, Yanrui		Univ. do Porto - Faculdade de Engenharia, VAT nr. PT50141
Martins, Ricardo		Univ. do Porto - Faculdade de Engenharia
Sousa, Joao		Univ. do Porto - Faculdade Engenharia (VAT PT501413197)
ThA3		Canghai Hall (level 1)
Robotics II (Regular Session)		
Chair: Song, Kai-Tai		National Chiao Tung Univ.
08:30-08:50		ThA3.1
<i>LPV and LFR Modelling of Elastic Robots for Controller Synthesis</i> , pp. 522-527.		
Loehning, Matthias		DLR German Aerospace Center
08:50-09:10		ThA3.2
<i>Dynamic Feedforward Control of the 2-DOFs Parallel Manipulator of a Hybrid Machine Tool</i> , pp. 528-533.		

Hao, Qi	Tsinghua Univ.
Guan, Liwen	Tsinghua Univ.
Wang, Liping	Tsinghua Univ.
Shao, Hua	Tsinghua Univ.
09:10-09:30	ThA3.3
<i>Quadratic-Programming Based Self-Motion Planning with No Target-Configuration Assigned for Planar Robot Arms</i> , pp. 534-539.	
Zhang, Yunong	Sun Yat-Sen Univ.
Huang, Yan	Sun Yat-Sen Univ.
Cai, Binghuang	Sun Yat-Sen Univ.
Guo, Dongsheng	Sun Yat-Sen Univ.
Ke, Zhende	Sun Yat-Sen Univ.
09:30-09:50	ThA3.4
<i>The Bubble Rebound Obstacle Avoidance Algorithm for Mobile Robots</i> , pp. 540-545.	
Susnea, Ioan	Univ. "Dunarea de Jos" of Galati
Filipescu, Adrian	Univ. "Dunarea de Jos" of Galati
Vasilu, Grigore	Univ. "Dunarea de Jos" of Galati
Coman, George	Univ. "Dunarea de Jos" of Galati
Radaschin, Adrian	Univ. Dunarea de Jos, Galati
09:50-10:10	ThA3.5
<i>Reinforcement Learning of Robot Motions Using a Novel Two-Layer Approach</i> , pp. 546-551.	
Albers, Albert	Karlsruhe Inst. of Tech. - KIT
Schillo, Sebastian	KIT - Karlsruhe Inst. of Tech. / IPEK
Sonnleithner, Daniel	KIT - Karlsruhe Inst. of Tech. / IPEK
Frietsch, Markus	KIT - Karlsruhe Inst. of Tech. / IPEK
Meckl, Peter	Univ. of Purdue

ThA4 Sea Wind Hall (level 1)

Process Control and Automation (Regular Session)

Chair: Wang, Qing-Guo	National Univ. of Singapore
Co-Chair: Duarte-Mermoud, Manuel A.	Univ. of Chile
08:30-08:50	ThA4.1
<i>Lead/lag Compensator Design for Unstable Processes Based on Gain and Phase Margin Specifications</i> , pp. 552-557.	
Nie, Zhuo-Yun	Central South Univ. National Univ. of Singapore
Wang, Qing-Guo	National Univ. of Singapore
Wu, Min	Central South Univ.
He, Yong	Central South Univ.
08:50-09:10	ThA4.2
<i>Transformed EPA Protocol on WLAN</i> , pp. 558-562.	
Zhao, Wei	Shenyang Inst. of Automation, the Chinese Academy of Sciences
Xu, Aidong	Shenyang Inst. of Automation (SIA)
Zheng, Yangbo	Shenyang Inst. of Automation, the Chinese Acad. of Sciences
09:10-09:30	ThA4.3
<i>B/S Structure Research of Real-Time Process Control and Monitoring System Based on Ajax</i> , pp. 563-567.	
Cao, Langcai	Xiamen Univ.
Luo, Jian	Xiamen Univ.
Peng, Yanqing	Xiamen Univ.
09:30-09:50	ThA4.4
<i>Kinematic Analysis of the Roller Ultrasonic Vibration Burnishing</i> , pp. 568-572.	
Li, Fenglei	South China Univ. of Tech.
Xia, Wei	South China Univ. of Tech.
Zhou, Zhaoyao	South China Univ. of Tech.
09:50-10:10	ThA4.5
<i>Evaluation of a Fractional Order PI Controller Applied to Induction Motor Speed Control</i> , pp. 573-577.	
Duarte-Mermoud, Manuel	Univ. of Chile
Mira, Felipe	Univ. of Chile, Elect. Eng. Department
Pelissier, Ian	Univ. of Chile, Elect. Eng. Department
Travieso-Torres, Juan	Univ. of Chile, Elect. Eng. Department

ThA5 Seacoast Hall A (level 2)

Sensor Networks and Networked Control I (Regular Session)

Chair: Lin, Hai	National Univ. of Singapore
08:30-08:50	ThA5.1
<i>Geometric Dilution of Localization and Bias-Correction Methods</i> , pp. 578-583.	
Ji, Yiming	The Australian National Univ.
Yu, Changbin	Australian National Univ.
Anderson, Brian D.O.	Australian National Univ.
08:50-09:10	ThA5.2
<i>Passivity and L2 Stability of Networked Dissipative Systems</i> , pp. 584-589.	
Yu, Han	Univ. of Notre Dame
Antsaklis, Panos J.	Univ. of Notre Dame

09:10-09:30		ThA5.3
<i>Robust Finite-Horizon Filtering of Time-Varying Networked Systems with Error Variance Constraints</i> , pp. 590-595.		
Dong, Hongli	Harbin Inst. of Tech. China	
Wang, Zidong	Brunel Univ.	
Ho, Daniel W. C.	City Univ. of Hong Kong	
Gao, Huijun	Harbin Inst. of Tech.	
09:30-09:50		ThA5.4
<i>Strong Tracking Filter with Bandwidth Constraint for Sensor Networks</i> , pp. 596-601.		
Xu, Tingliang	Hangzhou Dianzi Univ.	
Ge, Quanbo	Hangzhou Dianzi Univ.	
Feng, Xiaoliang	Hangzhou Dianzi Univ.	
Wen, Chenglin	Hangzhou Dianzi Univ.	
09:50-10:10		ThA5.5
<i>Rate Sufficient Conditions for Closed-Loop Control Over AWGN Relay Channels</i> , pp. 602-607.		
Zaidi, Ali Abbas	Royal Inst. of Tech. (KTH)	
Oechtering, Tobias J.	Royal Inst. of Tech. (KTH)	
Skoglund, Mikael	Royal Inst. of Tech.	

ThA6	Seacoast Hall B (level 2)
Integrated Manufacturing (Regular Session)	

Chair: Peng, Kemao	National Univ. of Singapore	
Co-Chair: Wang, Yung-Cheng	National Yunlin Uni.	
08:30-08:50		ThA6.1
<i>Grinding Performance Analysis of Diamond Wheel for Groove Grinding</i> , pp. 608-613.		
Wang, Yung-Cheng	National Yunlin Univ. of Science and Tech.	
Lin, Wei-Shin	National Formosa Univ.	
Hsiao, Wen-Chi	National Yunlin Univ. of Science and Tech.	
Lee, Bean-Yin	National Formosa Univ.	
08:50-09:10		ThA6.2
<i>A PSO-Based Multi-Objective Optimization Approach to the Integration of Process Planning and Scheduling</i> , pp. 614-619.		
Wang, Yifa	National Univ. of Singapore	
Zhang, Yunfeng	National Univ. of Singapore	
Fuh, Jerry Ying Hsi	National Univ. of Singapore	
Peng, Kemao	National Univ. of Singapore	
09:10-09:30		ThA6.3
<i>ANT-Q Algorithm Based Optimization Approach for Process Planning</i> , pp. 620-623.		
Liu, Xiaojun	Southeast Univ.	
Ni, Zhonghua	Southeast Univ.	

09:50-10:10		ThA6.5
<i>A Generic Implementation Approach of Autonomous Control Methods in Production Logistics</i> , pp. 629-633.		
Windt, Katja	Jacobs Univ.	
Becker, Till	Jacobs Univ.	
Asenov, Dimitar	Jacobs Univ.	
Arbabzadah, Farhad	Jacobs Univ.	

ThA7	Seacoast Hall C (level 2)
Filters and Filtering I (Regular Session)	

Chair: Hsieh, Chien-Shu	Ta Hwa Inst. of Tech.	
08:30-08:50		ThA7.1
<i>H_∞ Filtering for Networked Control Systems with Quantized Signals</i> , pp. 634-639.		
Jiang, Chong	Northeastern Univ.	
Zou, De-xin	Shenyang Sport Univ.	
Zhang, Qingling	Northeastern Univ.	
08:50-09:10		ThA7.2
<i>A Decoupled Maneuvering Target Tracking Algorithm for Practical Applications</i> , pp. 640-644.		
Zhang, Shicang	Shanghai Jiao Tong Univ. and Radar and Avionics Institute of AVIC	
Li, Jianxun	Shanghai Jiao Tong Univ.	
Wu, Liangbin	Radar and Avionics Inst. of AVIC	
09:10-09:30		ThA7.3
<i>Self-Tuning Centralized Fusion Kalman Filter for Multisensor Systems with Companion Form and Its Convergence</i> , pp. 645-650.		
Ran, Chenjian	Heilongjiang Univ.	
Gu, Lei	Heilongjiang Univ.	
Deng, Zili	Heilongjiang Univ.	
09:30-09:50		ThA7.4
<i>An On-Line Monitoring Method for Electronic Servos of UAVs</i> , pp. 651-654.		

Zhao, Kairui	Northwestern Pol. Univ.
Zhang, Qingjiang	Northwestern Pol. Univ.
Li, Yan	Northwestern Pol. Univ.
09:50-10:10	ThA7.5
<i>Optimal Filtering for Systems with Unknown Inputs Via Descriptor Kalman Filtering</i> , pp. 655-660.	
Hsieh, Chien-Shu	Ta Hwa Inst. of Tech.

ThB1	Lingbo Hall (level 1)
Space Vehicle Systems II (Regular Session)	

Chair: Wang, Danwei	Nanyang Tech. Univ.
Co-Chair: Shou, Ho-Nien	Air Force Inst. of Tech.
10:40-11:00	ThB1.1
<i>Decentralized Control for Satellite Formation Using Local Relative Measurements Only</i> , pp. 661-666.	
Wu, Baolin	Nanyang Tech. Univ.
Wang, Danwei	Nanyang Tech. Univ.
Poh, Eng Kee	Nanyang Tech. Univ.
11:00-11:20	ThB1.2
<i>Decentralized Attitude Coordinated Control without Velocity Measurements for Spacecraft Formation</i> , pp. 667-672.	
Wu, Baolin	Nanyang Tech. Univ.
Wang, Danwei	Nanyang Tech. Univ.
Poh, Eng Kee	Nanyang Tech. Univ.
11:20-11:40	ThB1.3
<i>Micro-Satellite Detumbling Mode Attitude Determination and Control : UKF Approach</i> , pp. 673-678.	
Shou, Ho-Nien	Air Force Inst. of Tech.
Sheu, Jia-Shing	National Taipei Univ. of Education
Wang, Jyh Haw	Cheng-Shiu Univ.

12:00-12:20	ThB1.5
<i>Pseudospectral Method for Optimal Motion Planning of a Rigid Underactuated Spacecraft</i> , pp. 684-688.	
Ma, Guangfu	Harbin Inst. of Tech.
Zhuang, Yufei	Harbin Inst. of Tech.
Li, Chuanjiang	Harbin Inst. of Tech.
Huang, Haibin	Harbin Inst. of Tech.

ThB2	Sea Flower Hall (level 1)
Sensor/Data Fusion II (Regular Session)	

Chair: Sun, Shuli	Heilongjiang Univ.
10:40-11:00	ThB2.1
<i>Development of Multi-Path Ultrasonic Flow Meter Based on Embedded System</i> , pp. 689-692.	
Wang, Yihong	Hohai Univ.
11:00-11:20	ThB2.2
<i>Three-Dimensional Analysis on Resistance Tomography Sensors and Its Application in Inspection of Milk Flow</i> , pp. 693-697.	
Wang, Pai	Xidian Univ.
Guo, Baolong	Xidian Univ.
Li, Nan	Xidian Univ.
11:20-11:40	ThB2.3
<i>Self-Tuning Information Fusion Wiener Filter for the AR Signals and Its Convergence</i> , pp. 698-703.	
Liu, Jinfang	Heilongjiang Univ. DeQiang Coll. of Commerce
Deng, Zili	Heilongjiang Univ.
11:40-12:00	ThB2.4
<i>Distributed Fusion Filter for Discrete-Time Stochastic Systems with Uncertain Observation and Correlated Noises</i> , pp. 704-708.	
Zhang, Teng	Heilongjiang Univ.
Ma, Jing	Heilongjiang Univ.
Sun, Shuli	Heilongjiang Univ.
12:00-12:20	ThB2.5
<i>Research of Measurement Mechanism of the Flow in Pipe Based on Multi-Path Ultrasonic</i> , pp. 709-712.	
Wang, Yihong	Hohai Univ.

ThB3	Canghai Hall (level 1)
Robotics III (Regular Session)	

Chair: Li, Zhibin	Shenzhen Pol.
Co-Chair: Peng, Kemao	National Univ. of Singapore
10:40-11:00	ThB3.1
<i>Adaptive Probabilistic Tracking with Multiple Cues Integration for a Mobile Robot</i> , pp. 713-718.	
Wang, Peng	Inst. of Automation, Chinese Acad. of Sciences
Hong, Qiao	Inst. of Automation, Chinese Acad. of Sciences

11:00-11:20		ThB3.2
<i>A Simulation and Experiment Research on Turning Gait Planning of Blackmann-II Humanoid Robot</i> , pp. 719-724.		
Peng, Shengjun		National Univ. of Defense Tech.
Shui, Haitao		National Univ. of Defense Tech.
Ma, Hongxu		National Univ. of Defense Tech.
11:20-11:40		ThB3.3
<i>T2: A Novel Two Degree-Of-Freedom Translational Parallel Robot for Pick-And-Place Operation</i> , pp. 725-730.		
Li, Zhibin	Shenzhen Graduate School, Harbin Inst. of Tech.	
Lou, Yunjiang	Shenzhen Graduate School, Harbin Inst. of Tech.	
Li, Zexiang	Hong Kong Univ. of Science & Tech.	
Yang, Guilin	Singapore Inst. of Manufacturing Tech.	
Gao, Jian	School of Electromechanical Engineering, Guangdong Univ. of	
11:40-12:00		ThB3.4
<i>Control Methods of Mobile Robot Rough-Terrain Trajectory Tracking</i> , pp. 731-738.		
Yang, Yi		Beijing Inst. of Tech.
Fu, Mengyin		Beijing Inst. of Tech.
Zhu, Hao		Beijing Inst. of Tech.
Xiong, Guangming		Beijing Inst. of Tech.
12:00-12:20		ThB3.5
<i>Modeling and Analysis for Passive Dynamic Walker with Controlled Flat Feet</i> , pp. 739-744.		
Chen, Hongshuai	Sch. of Comm. Eng., Jilin Univ. Key Lab. of Bionic Eng., MOE	
Tian, Yantao	School of Communications Engineering, Jilin Univ. Key Lab.	
Li, Jianfei	School of Communications Engineering, Jilin Univ. Key Lab.	
Huang, Xiaoliang	School of Communications Engineering, Jilin Univ. Key Lab.	

ThB4 Sea Wind Hall (level 1)

Biomedical Systems and Instrumentation (Invited Session)

Chair: Zhang, Cishen		Nanyang Tech. Univ.
Co-Chair: Xu, Jian-Xin		National Univ. of Singapore
Organizer: Zhang, Cishen		Nanyang Tech. Univ.
Organizer: Xu, Jian-Xin		National Univ. of Singapore
10:40-11:00		ThB4.1
<i>A Real Time Control Algorithm for a Myoelectric Glove for the Rehabilitation of Wrist and Elbow of Stroke Patients (I)</i> , pp. 745-749.		
Sasidhar, Sangit		National Univ. of Singapore
Panda, Sanjib Kumar		National Univ. of Singapore
Xu, Jian-Xin		National Univ. of Singapore
11:00-11:20		ThB4.2
<i>A Hysteresis Model for Calcium-Mediated Ciliary Beat Frequency in Airway Epithelial Cells (I)</i> , pp. 750-755.		
Qin, Kai-Rong		National Univ. of Singapore
Xiang, Cheng		National Univ. of Singapore
Ge, Shuzhi Sam		National Univ. of Singapore
11:20-11:40		ThB4.3
<i>Effect of the Upper Airway Obstruction on Arterial Remodeling in Rats: A Mechanobiology Study (I)</i> , pp. 756-760.		
Liu, Yong-Yi	Zhenjiang Fourth Municipal People's Hospital	
Gao, Lu	Jiangsu Univ.	
Shen, Xiang	No. 359 Military Hospital	
Wang, Chun-Hua	No. 359 Military Hospital	
Lin, Ling	Family Planning Publicity & Education Tech. AdvisingCenter o	
Ding, Guanghong	Fudan Univ.	
Qin, Kai-Rong	Shanghai Res. Center of Acupuncture and Meridians	
11:40-12:00		ThB4.4
<i>Super Resolution Image Reconstruction in Parallel Magnetic Resonance Imaging (I)</i> , pp. 761-766.		
Lu, Yanhong		Sun Yat-Sen Univ.
Yang, Ran		Sun Yat-Sen Univ.
Zhang, Jingxin		Monash Univ.
Zhang, Cishen		Nanyang Tech. Univ.
12:00-12:20		ThB4.5
<i>On Ultrasound Image Reconstruction by Tissue Density Estimation (I)</i> , pp. 767-772.		
Huang, Zheng		monash Univ.
Zhang, Jingxin		Monash Univ.
Zhang, Cishen		Nanyang Tech. Univ.

ThB5 Seacoast Hall A (level 2)

Sensor Networks and Networked Control II (Regular Session)

Chair: Xie, Lihua		Nanyang Tech. Univ.
10:40-11:00		ThB5.1
<i>Nonlinear Shift Estimation and Optimal Sensor Deployment for Target Tracking</i> , pp. 773-778.		
Hu, Jiangping	Univ. of Electronic Science and Tech. of China	
Hu, Xiaoming		Royal Inst. of Tech.

11:00-11:20		ThB5.2
<i>FSM Model and Analysis for Reconfigurable Protocol Stack in Networked Control System</i> , pp. 779-784.		
Chen, Hui		Huazhong Univ. of Science & Tech.
Zhou, Chunjie		Huazhong Univ. of Science and Tech.
Ma, Jie		Huazhong Univ. of Science and Tech.
Qing, Yuanqing		Huazhong Univ. of Science and Tech.
11:20-11:40		ThB5.3
<i>Stability for Singular Networked Control System with Dynamical State Feedback</i> , pp. 785-789.		
Dang, Xiangdong		Shenyang Ligong Univ.
Zhang, Qingling		Northeastern Univ.
11:40-12:00		ThB5.4
<i>The Stability Control for a Kind of Uncertain Networked Systems by Using a New Separation Principle</i> , pp. 790-795.		
Wang, Wei		Information school, Renmin Univ. of China

ThB6		Seacoast Hall B (level 2)
Mechatronics (Invited Session)		
Chair: Liu, Peter X.		Carleton Univ.
Co-Chair: Behbahani, Saeed		Isfahan Univ. of Tech.
Organizer: Liu, Peter X.		Carleton Univ.
Organizer: Behbahani, Saeed		Isfahan Univ. of Tech.
10:40-11:00		ThB6.1
<i>Mechatronic Modeling and Control of a Lathe Machine Equipped with a MR Damper for Chatter Suppression (I)</i> , pp. 802-807.		
Sajedipour, Davood		Isfahan Univ. of Tech.
Behbahani, Saeed		Isfahan Univ. of Tech.
Tabatabaei, Seyed Mohammad Karim		Isfahan Univ. of Tech.
11:00-11:20		ThB6.2
<i>Controller Design for Chatter Reduction Using Genetic Algorithm Method (I)</i> , pp. 808-813.		
Behbahani, Saeed		Isfahan Univ. of Tech.
Tabatabaei, Seyed Mohammad Karim		Isfahan Univ. of Tech.
Sajedipour, Davood		Isfahan Univ. of Tech.
11:20-11:40		ThB6.3
<i>Development, Depth Control and Stability Analysis of an Underwater Remotely Operated Vehicle (ROV) (I)</i> , pp. 814-819.		
Harsamizadeh Tehrani, Nima		Isfahan Univ. of Tech.
Heidari, Mahdi		Isfahan Univ. of Tech.
Zakeri, Yadolah		Isfahan Univ. of Tech.
Ghaisari, Jafar		Isfahan Univ. of Technology
11:40-12:00		ThB6.4
<i>Nonlinear Adaptive Robust Governor Control for Turbine Generator (I)</i> , pp. 820-825.		
Li, Wenlei		Ningbo Univ.
Lan, Ting		Ningbo Univ.
Lin, Weixing		Ningbo Univ.
12:00-12:20		ThB6.5
<i>Estimation Amplitude and Phase of Harmonic Based on Improved PSO (I)</i> , pp. 826-831.		
Yin, Jollin		Univ. of Ningbo
Lin, Weixing		Ningbo Univ.
Li, Wenlei		Ningbo Univ.

ThB7		Seacoast Hall C (level 2)
Filters and Filtering II (Regular Session)		
Chair: Wang, Jianliang		Nanyang Tech. Univ.
Co-Chair: Lei, Ming		INRIA, Univ. Bordeaux-I in Bordeaux and CNRM/GAME URA1357, French National Centre for Meteorological Res. in Toulouse,
10:40-11:00		ThB7.1
<i>A Hybrid Method Realizing Shock Filter by Cellular Neural Network</i> , pp. 832-836.		
Pham, Duc Long		Faculty of Information Tech. Thai Nguyen Univ. Thai Nguyen Viet Nam
Pham, Thuong Cat		Inst. of Information Tech. Vietnam Acad. of Science and Tech.
11:00-11:20		ThB7.2
<i>Fisher Information Matrix-Based Nonlinear System Conversion for State Estimation</i> , pp. 837-841.		
Lei, Ming		INRIA and Univ. of Bordeaux-I
Baehr, Christophe		CNRM/GAME URA1357, French National Centre for Meteorological Res.

Pierre, Del Moral	INRIA and Univ. of Bordeaux-I
11:20-11:40	ThB7.3
<i>Digital Compensators for Dynamic Thrust Measurement</i> , pp. 842-847.	
Chen, Lin	Shanghai Jiaotong Univ.
Wang, Ming di	Shanghai Inst. of Space Propulsion
Li, Jianxun	Shanghai Jiaotong Univ.
Dai, Hu	Shanghai Jiaotong Univ.
11:40-12:00	ThB7.4
<i>Robust H-Infinity Filtering for Polynomial Nonlinear Systems Using Sum of Squares Optimization</i> , pp. 848-853.	
Zhao, Dan	NTU
Wang, Jianliang	Nanyang Tech. Univ.
12:00-12:20	ThB7.5
<i>Self-Tuning Measurement Fusion Kalman Filter for Multisensor Systems with Companion Form</i> , pp. 854-859.	
Gao, Yuan	Department of Automation, Heilongjiang University, Harbin, China
Deng, Zili	Heilongjiang Univ.

ThC1 Lingbo Hall (level 1)

Aerospace Guidance and Control (Invited Session)

Chair: Lum, Kai-Yew	National Univ. of Singapore
Co-Chair: Tyan, Feng	Tamkang Univ.
Organizer: Lum, Kai-Yew	National Univ. of Singapore
Organizer: Tyan, Feng	Tamkang Univ.
13:30-13:50	ThC1.1
<i>Surveillance for a Simply Connected Region: A One-Center Disk-Covering Problem (I)</i> , pp. 860-865.	
Huang, Deqing	National Univ. of Singapore
Xu, Jian-Xin	National Univ. of Singapore
Lum, Kai-Yew	National Univ. of Singapore
13:50-14:10	ThC1.2
<i>SDRE Missile Guidance Law (I)</i> , pp. 866-870.	
Tyan, Feng	TamKang Univ.
Shen, Jeng Fu	TamKang Univ.
14:10-14:30	ThC1.3
<i>A Robust Control Law for Satellite Stabilization (I)</i> , pp. 871-876.	
Wee, Liang Boon	DSO National Lab.
14:30-14:50	ThC1.4
<i>Application of Matlab to the Vision-Based Navigation of UAVs (I)</i> , pp. 877-882.	
Chen, Yan-Chuan	Tamkang Univ.
Hsiao, Fu-Yuen	Tamkang Univ.
Shen, Jeng-Fu	Taipei National Univ. of the Arts
Hung, Fu-Ching	Tamkang Univ.
Lin, Si-Yu	Tamkang Univ.
14:50-15:10	ThC1.5
<i>Analysis of Proportional-Navigation Guidance Law with Delayed Line-Of-Sight Rate (I)</i> , pp. 883-887.	
Narayanachar, Dhananjay	National Univ. of Singapore
Lum, Kai-Yew	National Univ. of Singapore
Xu, Jian-Xin	National Univ. of Singapore
15:10-15:30	ThC1.6
<i>Design of a 3-D Modified Proportional Navigation Guidance Law (I)</i> , pp. 888-891.	
Lin, Yu-Ping	National Chung Hsing Univ.
Chun-Liang, Lin	National Chung Hsing Univ.
Chun-Wei, Huang	National Chung Hsing Univ.

ThC2 Sea Flower Hall (level 1)

New Methodologies for Estimation and Identification (Invited Session)

Chair: Gu, Jason	Dalhousie Univ.
Co-Chair: Wu, Wei	purdue Univ. calumet
Organizer: Gu, Jason	Dalhousie Univ.
13:30-13:50	ThC2.1
<i>Data-Fusion Design for a Robotic Human Body Pose Recognition System (I)</i> , pp. 892-897.	
Song, Kai-Tai	National Chiao Tung Univ.
Lai, Yu-Hung	National Chiao Tung Univ.
13:50-14:10	ThC2.2
<i>Multi-Thread Technology Based Autonomous Underwater Vehicle (I)</i> , pp. 898-903.	
Qin, Zheng	dalhousie Univ.
Gu, Jason	Dalhousie Univ.
14:10-14:30	ThC2.3
<i>Implementation of Formation Flight of Multiple Unmanned Aerial Vehicles (I)</i> , pp. 904-909.	
Dong, Xiangxu	National Univ. of Singapore
Cai, Guowei	National Univ. of Singapore

Lin, Feng	National Univ. of Singapore
Chen, Ben M.	National Univ. of Singapore
Lin, Hai	National Univ. of Singapore
Lee, Tong Heng	National Univ. of Singapore
14:30-14:50	ThC2.4
<i>Virtual Chromosome Modeling for Learning Human Cytogenetics (I)</i> , pp. 910-913.	
Yang, Xiaoli	purdue Univ. calumet
Wu, Wei	purdue Univ. calumet
Wen, Ding	purdue Univ. calumet
Chen, Bin	purdue Univ. calumet
Lacny, Jason	purdue Univ. calumet
Tseng, Charles	purdue Univ. calumet
14:50-15:10	ThC2.5
<i>A Nonlinear Estimate Filter Designed for Ship Dynamic Positioning (I)</i> , pp. 914-919.	
Fu, Mingyu	Harbin Engineering Univ.
Fuguang, Ding	Harbin Engineering Univ.
Meng, Li	Harbin Engineering Univ.
Pengfei, Yi	Harbin Engineering Univ.
15:10-15:30	ThC2.6
<i>The Ship Capability Calculation of a Dynamic Positioning System Based on Genetic Algorithms (I)</i> , pp. 920-925.	
Fu, Mingyu	Harbin Engineering Univ.
Fuguang, Ding	Harbin Engineering Univ.
Wenxia, Zhang	Harbin Engineering Univ.
Aihua, Zhang	Harbin Engineering Univ.
ThC3	Canghai Hall (level 1)
Robotics IV (Regular Session)	
Chair: Peng, Kemao	National Univ. of Singapore
13:30-13:50	ThC3.1
<i>Semi-Autonomous Control of a Throwable Miniature Reconnaissance Robot with Environment Perception</i> , pp. 926-931.	
Sang, Wenhua	Beijing Inst. of Tech.
Huang, Qiang	Beijing Inst. of Tech.
Huang, Yuancan	Beijing Inst. of Tech.
Li, Yue	Beijing Inst. of Tech.
Zhang, Liancun	Beijing Inst. of Tech.
Hu, Haibo	Beijing Inst. of Tech.
13:50-14:10	ThC3.2
<i>Bionic Bladder Based Depth Control for Bionic Underwater Robots</i> , pp. 932-936.	
Wang, Gang	National Univ. of Defense Tech.
Lin, Longxin	National Univ. of Defense Tech.
Xu, Haijun	National Univ. of Defense Tech.
Xie, Haibin	National Univ. of Defense Tech.
Shen, Lincheng	National Univ. of Defense Tech.
14:10-14:30	ThC3.3
<i>New PID-Type Controllers for Robot Manipulators with an Uncertain Jacobian Matrix</i> , pp. 937-941.	
Huang, Chunqing	Xiamen Univ.
Wang, Junping	Xi'an Jiaotong Univ.
14:30-14:50	ThC3.4
<i>A Mehtod for 6-PSS Parallel Robot Dynamics Model</i> , pp. 942-946.	
Wang, Hongrui	Hebei Univ.
Ma, Li	Hebei Univ.
Xiao, Jinzhuang	Hebei Univ.
Dong, Hui	Hebei Univ.
14:50-15:10	ThC3.5
<i>Intraoperative Visual Guidance and Control Interface for Augmented Reality Robotic Surgery</i> , pp. 947-952.	
Wen, Rong	National Univ. of Singapore
Yang, Liangjing	National Univ. of Singapore
Chui, Chee-Kong	National Univ. of Singapore
Lim, Kah-Bin	Univ. of Singapore
Chang, Stephen	National Univ. Hospital
15:10-15:30	ThC3.6
<i>Optimal Design for Natural Frequency of 6-DOF Hydraulic Parallel Manipulator</i> , pp. 953-957.	
Peng, Likun	Naval Engineering of Univ.
Lv, Bangjun	Naval Engineering Univ.
Xiong, Xianfeng	Naval Engineering Univ.
Xing, Jifeng	Naval Engineering Univ.

ThC4		Sea Wind Hall (level 1)
Systems Biology (Invited Session)		
Chair: Xiang, Cheng		National Univ. of Singapore
Co-Chair: Qin, Kai-Rong	Shanghai Res. Center of Acupuncture and Meridians	
Organizer: Xiang, Cheng		National Univ. of Singapore
Organizer: Qin, Kai-Rong	Shanghai Res. Center of Acupuncture and Meridians	
13:30-13:50		ThC4.1
<i>Empirical Mode Decomposition of Wall Shear Stress Induced by Blood Flow in Rat Common Carotid Arteries (I)</i> , pp. 958-963.		
Qin, Kai-Rong	Shanghai Res. Center of Acupuncture and Meridians	
Wang, Shengzhang		Fudan Univ.
Wu, Hao		Fudan Univ.
Ding, Guanghong		Fudan Univ.
13:50-14:10		ThC4.2
<i>The Singular Perturbation Analysis for One-Dimensional Poisson-Nernst-Planck Equation (I)</i> , pp. 964-967.		
Shi, XiaoMin		Shanghai Univ.
Le, JiaChun		Shanghai Univ.
Qin, Kai-Rong	Shanghai Res. Center of Acupuncture and Meridians	
Zheng, Yufan		Shanghai Univ.
14:10-14:30		ThC4.3
<i>Numerical Analysis of Multiple Red Blood Cells in Capillary Vessels (I)</i> , pp. 968-971.		
Gong, Xiaobo		Shanghai Jiaotong Univ.
Sugiyama, K.		The Univ. of Tokyo
Takagi, S.		RIKEN
Matsumoto, Y.		The Univ. of Tokyo
14:30-14:50		ThC4.4
<i>Feature Extraction and Recognition for Pulse Waveform in Traditional Chinese Medicine Based on Hemodynamics Principle (I)</i> , pp. 972-976.		
Yan, Haixia	Shanghai Univ. of Traditional Chinese Medicine	
Wang, Yiqin	Shanghai Univ. of Traditional Chinese Medicine	
Guo, Rui	Shanghai Univ. of Traditional Chinese Medicine	
Liu, Zhaorong		Fudan Univ.
Li, Fufeng	Shanghai Univ. of Traditional Chinese Medicine	
Run, Fengying	Shanghai Univ. of Traditional Chinese Medicine	
Hong, Yujian	Shanghai Univ. of Traditional Chinese Medicine	
Yan, Jianjun	East China Univ. of Science and Tech.	
14:50-15:10		ThC4.5
<i>Nonlinear Noise Reduction of Auscultation Signal Analysis in Traditional Chinese Medicine (I)</i> , pp. 977-980.		
Gu, Zhongyan	East China Univ. of Science and Tech.	
Yan, Jianjun	East China Univ. of Science and Tech.	
Mao, Siyuan	East China Univ. of Science and Tech.	
Wang, Yiqin	Shanghai Univ. of TCM	
Li, Fufeng	Shanghai Univ. of TCM	
Xia, Chunmin	East China Univ. of Science and Tech.	
Guo, Rui	Shanghai Univ. of TCM	
Shen, Qingwei	East China Univ. of Science and Tech.	
Yan, Haixia	Shanghai Univ. of Traditional Chinese Medicine	
15:10-15:30		ThC4.6
<i>A Mathematical Model for Oxygen Transport in Human Body with Lung-Qi-Deficiency (I)</i> , pp. 981-984.		
Yao, Wei		Fudan Univ.
Ding, Guanghong		Fudan Univ.
ThC5		Seacoast Hall A (level 2)
Sensor Networks and Networked Control III (Regular Session)		
Chair: Feng, Gang		City Univ. of Hong Kong
Co-Chair: Wang, Jian	Natural Science Res. Center, Harbin Inst. Harbin, 150001, China	
13:30-13:50		ThC5.1
<i>Exponential Uncertainty and Quantization Error: H2 Approach to Networked Control</i> , pp. 985-990.		
Wang, Jian	Natural Science Res. Center, Harbin Inst. H	
Yan, Zhibin		Harbin Inst. of Tech.
Li, YuanLong	Natural Science Res. Center, HarbinInstituteofTechnology, Ha	
13:50-14:10		ThC5.2
<i>Delayed Positive Feedback Control for Offshore Platforms Over Networks</i> , pp. 991-995.		
Gao, Shou-Wan		Ocean Univ. of China
Tang, Gong-You		Ocean Univ. of China
14:10-14:30		ThC5.3
<i>Parametrization Controller Design Subject to Finite Channel Rate and Memoryless Coding Scheme</i> , pp. 996-1001.		
Li, YuanLong	Natural Science Res. Center, HarbinInstituteofTechnology, Ha	
Yan, Zhibin		Harbin Inst. of Tech.
Wang, Jian		Natural Science Res. Center, Harbin Inst. H

14:30-14:50		ThC5.4
<i>Exponential Stability of NCS with Time-Varying Delay and Multiple-Packet Transmission</i> , pp. 1002-1007.		
Dang, Xiangdong		Shenyang Ligong Univ.
Zhang, Qingling		Northeastern Univ.
14:50-15:10		ThC5.5
<i>Research on the Energy Consumption of V-MIMO-OFDM System Underground Coal Mines</i> , pp. 1008-1012.		
Song, Jin-ling		, China Univ. of Mining & Tech.

ThC6 Seacoast Hall B (level 2)

Fuzzy Systems (Regular Session)

Chair: Er, Meng Joo		NTU
13:30-13:50		ThC6.1
<i>A Type-2 Fuzzy Logic Controller for Dynamic Positioning Systems</i> , pp. 1013-1018.		
Tan, Woei-Wan		National Univ. of Singapore
Chen, Xue Tao		National Univ. of Singapore
13:50-14:10		ThC6.2
<i>Fuzzy Control with Relaxed Nonquadratic Stability Conditions for Inverted Pendulum Robot System with Multiplicative Noise</i> , pp. 1019-1024.		
Chang, Wen-Jer		National Taiwan Ocean Univ.
Chang, Chia-Hao		National Taiwan Ocean Univ.
Ku, Cheung Chieh		Natrional Taiwan Ocean Univ.
14:10-14:30		ThC6.3
<i>Research on the Fuzzy-Based Out-Of-Step Preventive Control for Low-Speed Permanent Magnet Linear Synchronous Motor</i> , pp. 1025-1029.		
Wang, Fuzhong		China Univ. of Mining and Tech.
Yuan, Shiyong		Henan Pol. Univ.
Jing, Penghui		Henan Pol. Univ.
14:30-14:50		ThC6.4
<i>A Fast Pruning Algorithm for an Efficient Adaptive Fuzzy Neural Network</i> , pp. 1030-1035.		
Du, Juan		Nanyang Tech. Univ.
Er, Meng Joo		NTU
14:50-15:10		ThC6.5
<i>A New Fuzzy Logic Road Detector for Antilock Braking System Application</i> , pp. 1036-1041.		
Habibi, Mehran		Power and Water Univ. of Tech.
Yazdizadeh, Alireza		Shahid Abbaspour Univ.

ThC7 Seacoast Hall C (level 2)

Model Predictive Control (Regular Session)

Chair: Mendez, J. A.		Univ. de La Laguna
13:30-13:50		ThC7.1
<i>Nonlinear Predictive Adaptive Control of Induction Motor Speeding System</i> , pp. 1042-1047.		
Jin, Chuanfu		Univ. of Science and Tech. of China
Sun, Yanguang		Automation Res. and Design Inst. of MetallurgicalIndustr
Fang, Qinghai		Automation Res. Inst. of Inst.
13:50-14:10		ThC7.2
<i>Decoupling Control of Induction Motors Based on Nonlinear Optimal Predictive Control</i> , pp. 1048-1052.		
Jin, Chuanfu		Univ. of Science and Tech. of China
Sun, Yanguang		Automation Res. and Design Inst. of MetallurgicalIndustr
Fang, Qinghai		Automation Res. Inst. of Inst.
14:10-14:30		ThC7.3
<i>Predictive Algorithm for Intravenous Anesthesia Control</i> , pp. 1053-1058.		
Mendez, J. A.		Univ. de La Laguna
Torres, Santiago		Univ. de La Laguna
Reboso, Jose A		Hospital Univ. de Canarias
Reboso, Hector		Univ. de La Laguna
14:30-14:50		ThC7.4
<i>An Analysis of Variance Approach to Tuning of Generalized Predictive Controllers for Second Order Plus Dead Time Models</i> , pp. 1059-1064.		
Neshasteriz, Amir Reza		K.N.Toosi Univ. of Tech.
Khaki Sedigh, Ali		K.N. Toosi Univ. of Tech.
Sadjadian, Housman		Iran Univ. of Science and Tech.

ThCP1	Sea Rhyme Hall (level 2)
System Modeling (Interactive Session)	
Chair: Wang, Youyi	Nanyang Tech. Univ.
Co-Chair: Xu, Yuan	Beijing Univ. of Chemical Tech.
13:30-15:30	ThCP1.1
<i>Conjugate Gradient-Based Parameters Identification</i> , pp. 1071-1075.	
Wang, Shengyu	School of Information Science and Tech. Xiamen University
Mi, Hong	School of Public Affairs Zhejiang Univ.
Xi, Bin	Xiamen Univ.
Sun, Daniel(Jian)	School of Transportation Engineering, Tongji Univ.
13:30-15:30	ThCP1.2
<i>Rigorous Dynamic Model of a Distillation Process and Its Application</i> , pp. 1076-1080.	
Zhu, Xuemei	Nanjing normal Univ.
13:30-15:30	ThCP1.3
<i>Multiple Airport Ground Holding Dynamic Model and Optimal Algorithm Basing Flight Priority</i> , pp. 1081-1085.	
Wang, Lili	Civil Aviation Univ. of China
Zhang, Zhaoning	Civil Aviation Univ. of China
Liu, Jimin	Civil Aviation Univ. of China
13:30-15:30	ThCP1.4
<i>Optimization for One Gasoline Engine Exhaust System Based on BOOST</i> , pp. 1086-1091.	
Huang, Wenkai	Tongji Univ.
Zhou, Yi	Tongji Univ.
Chen, Qinghua	Tongji Univ.
Peng, Xiaojun	Tongji University
13:30-15:30	ThCP1.5
<i>Reliability Evaluation of Mine Ventilation Systems Based on Multi-State System Theory</i> , pp. 1092-1097.	
Miao, Zhuqi	Xiamen Univ.
Wang, Zhoujing	Xiamen Univ. Beihang Univ.
Lan, Weiyao	Xiamen Univ.
13:30-15:30	ThCP1.6
<i>T-S Fuzzy System Identification Based on Support Vector Machine</i> , pp. 1098-1102.	
Deng, Yanli	Xihua Univ.
Wang, Jun	Xihua Univ.
Yan, Xiaodan	Xihua Univ.
13:30-15:30	ThCP1.7
<i>Quantum-Behaved Particle Swarm Optimization -ANN Based Identification Method for Typical Power Quality Disturbance</i> , pp. 1103-1108.	
Yang, Genghuang	Tianjin Univ. of Tech. and Education
13:30-15:30	ThCP1.8
<i>Modeling and Compensation for Capacitive Pressure Sensor by RBF Neural Networks</i> , pp. 1109-1114.	
Hashemi, Mahnaz	Isfahan Univ. of Tech.
Ghaisari, Jafar	Isfahan Univ. of Technology
Zakeri, Yadolah	Isfahan Univ. of Tech.
13:30-15:30	ThCP1.9
<i>Multi-Stage Information Fusion Identification Method for Multisensor ARMA Signals with White Measurement Noises</i> , pp. 1115-1119.	
Gao, Yuan	Department of Automation, Heilongjiang University, Harbin, China
Xu, Huiqin	Heilongjiang Univ.
Deng, Zili	Heilongjiang Univ.
13:30-15:30	ThCP1.10
<i>Vibration Measurement and Structural Optimization Simulation of a Boom Type Tunneller</i> , pp. 1120-1123.	
Huang, Min	Beijing Information Science & Tech. Univ.
13:30-15:30	ThCP1.11
<i>Modal Parameter Identification Based on Singular Value Decomposition and Backward Prediction</i> , pp. 1124-1127.	
Lin, Liqun	xiamen Univ.
Xi, Bin	Xiamen Univ.
Lv, Zhenhan	xiamen Univ.
13:30-15:30	ThCP1.12
<i>Extension Theory-Based Modeling for Purified Terephthalic Acid Solvent System</i> , pp. 1128-1132.	
Xu, Yuan	Beijing Univ. of Chemical Tech.
Zhu, Qunxiong	Beijing Univ. of Chemical Tech.
13:30-15:30	ThCP1.13
<i>Mobile Inverse Pendulum Modeling and Control</i> , pp. 1133-1138.	
Strah, Bruno	Tech. Univ. DARMSTADT
Kern, Simon	Gleason-Pfauter Maschinenfabrik GmbH
Felzer, Torsten	Tech. Univ. DARMSTADT
Nordmann, Rainer	Tech. Univ. DARMSTADT
Rinderknecht, Stephan	Tech. Univ. DARMSTADT
13:30-15:30	ThCP1.14

<i>Improved H_∞ Filtering for Continuous-Time Singular Systems with Time-Varying Delay</i> , pp. 1139-1144.	Nanyang Tech. Univ. Nanyang Tech. Univ.
Zhu, Xunlin Wang, Youyi	
13:30-15:30	ThCP1.15
<i>Signal Reconstruction and Frequency Estimation of a Biased and Noisy Sinusoidal Signal</i> , pp. 1145-1150.	Donghua Univ. Donghua Univ. Donghua Univ.
Zheng, Da Jiang, Lei Ren, Zhengyun Wu, Xiumei	Shanghai Second Pol. Univ.
13:30-15:30	ThCP1.16
<i>Nonlinear Control Performance Assessment for Block-Oriented Nonlinear Systems</i> , pp. 1151-1156.	The Univ. of Auckland Auckland Univ. of Tech. The Univ. of Auckland
Yu, Wei Wilson, David I. Young, Brent	
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ThCP2	Sea Rhyme Hall (level 2)
Intelligent and AI Based Control (Interactive Session)	
Chair: Wang, Jianliang	Nanyang Tech. Univ.
13:30-15:30	ThCP2.1
<i>A Novel Approach of Computing XML Similarity Based on Weighted XML Data Model</i> , pp. 1157-1162.	Nanjing Univ. of Finance & Ec. Nanjing Univ. of Finance & Ec.
Li, Shuqing Xu, Meifeng	
13:30-15:30	ThCP2.2
<i>Study on Control and Optimization of Soft Capsule Dropping Pills Based on Intelligent Method</i> , pp. 1163-1168.	Xiamen Univ. Xiamen Univ. Xiamen Univ.
Peng, Yanqing Luo, Jian Yang, Fan	
13:30-15:30	ThCP2.3
<i>Research on Scheduling of the RGV System Based on QPSO</i> , pp. 1169-1174.	Xiamen Univ. Xiamen Univ. xiamen Univ. Xiamen Univ. Xiamen Univ.
Luo, Jian Wu, Chang-qing Hong, Wencai Cheng, Yong San-yao, Xu	
13:30-15:30	ThCP2.4
<i>A New Particle Swarm Optimization and the Application in the Soft Sensor Modeling</i> , pp. 1175-1177.	East China Univ. of Science and Tech. East China Univ. of Science and Tech. East China Univ. of Science and Tech.
Dang, Mingmei Wang, Zhenlei Qian, Feng	
13:30-15:30	ThCP2.5
<i>A Novel Approach for Moving Object Detection Based on Improved Particle Swarm Optimization Algorithm</i> , pp. 1178-1183.	East China Univ. of Science and Tech. East China Univ. of Science and Tech. East China Univ. of Science and Tech.
Yu, Jin Zhou, Xuan Qian, Feng	
13:30-15:30	ThCP2.6
<i>Guided Local Search Based Distributed Risk Management for Virtual Enterprise</i> , pp. 1184-1189.	Northeastern Univ. Northeastern Univ. Northeastern Univ.
Sun, Xianli Huang, Min Wang, Xingwei	
13:30-15:30	ThCP2.7
<i>Free-Tagging Methods for Opinion Analysis of Online News Comments</i> , pp. 1190-1195.	Xi'an Jiaotong Univ. Henan Univ. of Science & Tech. Xi'an Inst. of Electrical and Information Tech. Xi'an Jiaotong Univ. Xi'an Inst. of Electrical and Information Tech.
Zhao, Changwei Liu, Heng Peng, Qinke Yang, Ying	
13:30-15:30	ThCP2.8
<i>An Improved Algorithm of Chaos Optimization</i> , pp. 1196-1200.	Univ. of Science & Tech. of China Univ. of Science and Tech. of China Univ. of Science and Tech. of China
Cong, Shuang Li, Guodong Feng, Xianyong	
13:30-15:30	ThCP2.10
<i>Application of the Important Sampling Method to Vehicle Routing Problem with Weight Coefficients and Stochastic Demands</i> , pp. 1207-1210.	

- 13:30-15:30 ThCP2.12
Convergence Analysis of Zhang Neural Networks Solving Time-Varying Linear Equations but without Using Time-Derivative Information, pp. 1215-1220.
 Zhang, Yunong Sun Yat-Sen Univ.
 Shi, Yanyan Sun Yat-Sen Univ.
 Yang, Yiwen Sun Yat-Sen Univ.
 Ke, Zhende Sun Yat-Sen Univ.
- 13:30-15:30 ThCP2.13
Multi-Mode Control Method Based on Fuzzy Selector in the Four Wheel Steering Control System, pp. 1221-1226.
 Yang, Zhigang Chongqing Jiaotong Univ.
 Wang, Zhijing Chongqing Jiaotong Univ.
 Su, Wentao Changfeng Automobile R & D Co., Ltd.
 Zhang, Jian Chongqing Jiaotong Univ.
- 13:30-15:30 ThCP2.14
Direct Adaptive Fuzzy Robust Control of Arc Furnace, pp. 1227-1232.
 Zhang, Xiangjun Beijing Information Science and Tech. Univ.
 Guan, Ping Beijing Information Science and Tech. Univ.
 Liu, Xiaohu Beijing Information Science and Tech. Univ.
 Li, Minghui Beijing Information Science and Tech. Univ.
- 13:30-15:30 ThCP2.15
Real-Time Reading Recognition of Digital Display Instrument Based on BP Neural Network, pp. 1233-1238.
 Gong, Ruikun Hebei Pol. Univ.
 Yuan, Kui Hebei Pol. Univ.
 Nian, Shanpo Hebei Pol. Univ.
 Chen, Lei Hebei Pol. Univ.
 Zhang, Guangxiang Hebei Pol. Univ.
 Tian, Yansong Hebei Pol. Univ.
- 13:30-15:30 ThCP2.16
Tuning of Fractional PID Controllers by Using Radial Basis Function Neural Networks, pp. 1239-1244.
 Ou, Baiyu Army Aviation Inst. Beijing 101116, P.R. China
 Song, Lei State Key Lab. for Turbulence and Complex Systems, Coll. of Eng
 Chang, Chunlei Army Aviation Inst. Beijing 101116, P.R. China
- 13:30-15:30 ThCP2.17
Research on Erasing CO₂ Influence on the Detection of SO₂ Based on Data Fusion, pp. 1245-1248.
 Chen, Lei Hebei Pol. Univ.
 Gong, Ruikun Hebei Pol. Univ.
 Nian, Shanpo Hebei Pol. Univ.
 Sun, Zhongkui Hebei Pol. Univ.
 Zhang, Guangxiang Hebei Pol. Univ.
 Tian, Yansong Hebei Pol. Univ.
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- ThCP3** Sea Rhyme Hall (level 2)
Systems, Signals and Control (Interactive Session)
- Chair: Fakharian, Ahmad Islamic Azad Univ. Qazvin Branch
 Co-Chair: Yang, Ran Sun Yat-Sen Univ.
- 13:30-15:30 ThCP3.1
Delay-Dependent Robust H_{∞} Control of Nonlinear Uncertain Time-Delay Systems, pp. 1249-1254.
 Wang, Miaoxin North China Electric Power Univ.
 Liu, Jizhen North China Electric Power Univ.
 Liu, Juncheng North China Electric Power Univ.
- 13:30-15:30 ThCP3.3
An Efficient Method of Evaluating the Distance between Two Uncertain Objects, pp. 1259-1264.
 Chen, Hongmei Yunnan Univ.
 Wang, Lizhen Yunnan Univ.
 Liu, Weiyi Yunnan Univ.
 Xiao, Qing Yunnan Univ.
- 13:30-15:30 ThCP3.4
Weak Signal Detection and Asymptotic Relative Efficiency in Gaussian-Exponential Mixture Noise, pp. 1265-1268.
 Liu, Ke Man China Univ. of Petroleum, Beijing, China
- 13:30-15:30 ThCP3.5

<i>Delay-Range-Dependent Robust Stability for Uncertain Switched Systems with Time-Varying Delay</i> , pp. 1269-1273. Zhang, Xiaoli	Xiamen Univ.
13:30-15:30 <i>A Joint Tracking and Classification Algorithm with Improved Mutual Feedback</i> , pp. 1274-1278. Guo, Yunfei Chen, Huajie Peng, Dongliang Lin, Yuesong Xue, Anke	ThCP3.6 Hangzhou Dianzi Univ. Hangzhou Dianzi Univ. Hangzhou Dianzi Univ. Hangzhou Dianzi Univ. Hangzhou Dianzi Univ.
13:30-15:30 <i>The Fusion Method of Conflicting Evidence Based on the Cosine Similarity of Evidence Vectors</i> , pp. 1279-1283. Wang, Yucheng Xu, Xiaobin Lu, Yanwen Wen, Chenglin	ThCP3.7 Hangzhou Dianzi Univ. Hangzhou Dianzi Univ. Yangtze Delta Region Inst. of Tsinghua Univ. Hangzhou Dianzi Univ.
13:30-15:30 <i>Adaptive Robust Control for Uncertain Nonlinear Systems with Time-Varying Delay</i> , pp. 1290-1293. Shi, Shengli Fang, Yiming Li, Jianxiong	ThCP3.9 Yanshan Univ. Yanshan Univ. Yanshan Univ.
13:30-15:30 <i>Self-Tuning Measurement Fusion White Noise Deconvolution Estimator and Its Convergence Analysis</i> , pp. 1294-1299. Sun, Xiaojun Deng, Zili	ThCP3.10 Heilongjiang Univ. Heilongjiang Univ.
13:30-15:30 <i>Dynamic-Group Scheduling Scheme for Maneuvering Target Tracking in Wireless Sensor Networks</i> , pp. 1300-1304. Liu, Yonggui Xu, Bugong Li, Shanbin Feng, Linfang	ThCP3.11 South China Univ. of Tech. South China Univ. of Tech. South China Univ. of Tech. south china Univ. of Tech.
13:30-15:30 <i>Realizations of Cascaded LTV Mixed Causal and Anticausal Systems</i> , pp. 1305-1310. Chen, Xiaofang Zhang, Cishen Zhang, Jingxin	ThCP3.12 NANYANG Tech. Univ. Nanyang Tech. Univ. Monash Univ.
13:30-15:30 <i>Logic Based Switching H₂/h_∞: Controller Design for Linear Singular Perturbation Systems: A Fuzzy Supervisor Approach</i> , pp. 1311-1315. Fakharian, Ahmad Jamshidi, Fatemeh Hamidi Beheshti, Mohammad Taghi	ThCP3.13 Tarbiat Modares Univ. Tarbiat Modares Univ. Univ.
13:30-15:30 <i>Stability Analysis and Controller Design for Networked Control Systems Based on Hidden Markov Model</i> , pp. 1316-1320. Qiu, Li Xu, Bugong Li, Shanbin	ThCP3.14 South China Univ. of Tech. South China Univ. of Tech. South China Univ. of Tech.
13:30-15:30 <i>Extremum Seeking Predictive Control of LTI Systems Based on Numerical Optimization</i> , pp. 1321-1325. Li, Yiguo Shen, Jiong	ThCP3.15 Southeast Univ. Southeast Univ.
13:30-15:30 <i>Vibration Analysis: Optimization of Parameters of the Two Mass Model Based on Kelvin Elements</i> , pp. 1326-1332. Kuznetsov, Alexey Mammadov, Musa Sultan, Ibrahim Hajjilarov, Eldar	ThCP3.16 Univ. of Ballarat Univ. of Ballarat Univ. of Ballarat Univ. of Ballarat
13:30-15:30 <i>Robust Analysis for MIMO Systems with Unstructured Uncertainties</i> , pp. 1333-1337. Son, Jung Eun Latchman, Haniph A. Mani, Arun S.	ThCP3.17 Univ. of Florida Univ. of Florida Univ. of Florida

ThCP4	Sea Rhyme Hall (level 2)
Control Applications and Robotics (Interactive Session)	
Chair: Blachuta, Marian	Silesian Univ. of Tech.
13:30-15:30 <i>The Smooth Switching Control for TORA System Via LMIs</i> , pp. 1338-1343.	ThCP4.1

Chen, Pang-Chia
Wu, Sun-Li
Chuang, Hung-Shiang

Kao Yuan Univ.
Kao Yuan Univ.
Kao Yuan Univ.

- 13:30-15:30 ThCP4.3
Augmented Online Point to Point Trajectory Planning, a New Approach in Catching a Moving Object by a Manipulator, pp. 1349-1354.
Keshmiri, Mohammad Isfahan Univ. of Tech.
Keshmiri, Mahdi Isfahan Univ. of Tech.
Mohebbi, Abolfazl Isfahan Univ. of Tech.
- 13:30-15:30 ThCP4.4
Controller Design for Tracking Induced Miss-Rates in Cache Memories, pp. 1355-1359.
Almoosa, Nawaf Georgia Inst. of Tech.
Wardi, Yorai Georgia Inst. of Tech.
Yalamanchili, Sudhakar Georgia Inst. of Tech.
- 13:30-15:30 ThCP4.5
A Generalized Method for Determining Load Workspace of Spatial Parallel Mechanisms, pp. 1360-1365.
Mahmoodi, Ali Amirkabir Univ. of Tech.
Aminzadeh, Masoumeh Amirkabir Univ. of Tech.
Menhaj, Mohammad Bagher Control
Sabzehparvar, Mehdi Amirkabir Univ. of Tech.
- 13:30-15:30 ThCP4.6
Virtual Force Guided Control Method for Teleoperated Manipulator System Over Internet, pp. 1366-1371.
Shi, Pu Northeastern Univ. at Qinhuangdao
Zhao, Yiwen Shenyang Inst. of Automation, Chinese Acad. Sciences
Hua, Jianning Northeastern Univ. at Qinhuangdao
Cui, Yujie Northeastern Univ. at Qinhuangdao
- 13:30-15:30 ThCP4.7
Control of Hydraulic Turbine Generators Using Exact Feedback Linearization, pp. 1372-1378.
Yang, Fang Tsinghua Univ.
Lei, Hao Case Western Res. Univ.
Sun, Yuanzhang Tsinghua Univ.
Lin, Wei Case Western Res. Univ.
Shen, Tielong Sophia Univ.
- 13:30-15:30 ThCP4.8
Improved FastSLAM Based on the Particle Fission for Mobile Robots, pp. 1379-1384.
Wei, Zhiqiang Ocean Univ. of China
Cao, Jing Ocean Univ. of China
Yin, Bo ocean uiniversity of China
Liu, Bing Ocean Univ. of China
- 13:30-15:30 ThCP4.9
Unknown Offset Free MPC for Air-Fuel Ratio Balancing Control Inmulti-Cylinder SI Engines, pp. 1385-1390.
Li, Po Wuhan Univ.
Shen, Tielong Sophia Univ.
Liu, Dichen Wuhan Univ.
- 13:30-15:30 ThCP4.10
Speed Control of 3-Phase Asynchronous Motor Using Artificial Neural Network, pp. 1391-1396.
Le Hung, Linh Thai Nguyen Univ.
Pham, Thuong Cat Inst. of Information Tech.
Minhtuan Pham, Minhtuan Pham Vietnamese Acad. of science and Tech.
- 13:30-15:30 ThCP4.11
Impact of Anti-Aliasing Filters on Optimal Sampled-Data PID Control, pp. 1397-1402.
Blachuta, Marian Silesian Univ. of Tech.
Grygiel, RafaB; Silesian Univ. of Tech.
- 13:30-15:30 ThCP4.12
Piezoelectric Self-Sensing Actuator for Vibration Suppression Based on Time-Sharing Method, pp. 1403-1408.
Wang, Bo Chongqing Univ. of Tech.
Wang, Rongxiu Chongqing T&B Univ.
- 13:30-15:30 ThCP4.13
Control System Design and Performance Test of a Magnetorheological Fluid Fan Clutch, pp. 1409-1413.
Hu, Hongsheng Univ. of Jiaxing, Zhejiang Province, China
- 13:30-15:30 ThCP4.14
Control System Design of a Small-Scale Unmanned Helicopter, pp. 1414-1417.
Bai, Zhiqiang Beijing Inst. of Computer Application
Liu, Peizhi Beijing Inst. of Computer Application
Wang, Jinhua Beijing Inst. of Computer Application

Hu, Xiongwen
Zhao, Xinxin

Beijing Inst. of Computer Application
Beijing Inst. of Computer Application

- 13:30-15:30 ThCP4.16
Design of New Intelligent Street Light Control System, pp. 1423-1427.
Wu, Yue North Univ. of China, Taiyuan 030051, China
- 13:30-15:30 ThCP4.17
On a New Strategy for Induction Motors Fault Detection and Isolation, pp. 1428-1433.
Mahamoud, Ayan Ec. Centrale de Nantes
Glumineau, Alain Ec. Centrale Nantes
Souleiman, Ibrahim Univ. de Djibouti

FrA1 Lingbo Hall (level 1)

Discrete Event Systems (Regular Session)

- Chair: Qiu, Jianbin Harbin Inst. of Tech.
- 08:30-08:50 FrA1.1
Mission Reliability Simulation of Aggregated Equipment Combat Units for the Mobile Mission Based on Petri Net, pp. 1434-1438.
Tang, Yanfeng Acad. of Military Transportation
Liu, Xiangkai Acad. of Military Transportation
Feng, Huijuan Acad. of Military Transportation
- 08:50-09:10 FrA1.2
Robust mathematical Non-Synchronized State Estimation of Uncertain Discrete-Time Piecewise Affine Slab Systems, pp. 1439-1444.
Qiu, Jianbin Harbin Inst. of Tech.
Feng, Gang City Univ. of Hong Kong
Gao, Huijun Harbin Inst. of Tech.
- 09:10-09:30 FrA1.3
An Algorithm to Find the Condition on Initial Markings of Resource Places and Job Places for Liveness of S3PMR, pp. 1445-1449.
Wang, Shouguang Zhejiang Gongshang Univ.
Wang, Chengying Zhejiang Gongshang Univ.
Yu, Yanping Zhejiang Gongshang Univ.
- 09:30-09:50 FrA1.4
Computation for Supremal Simulation-Based Controllable Subautomata, pp. 1450-1455.
Sun, Yajuan National Univ. of Singapore
Lin, Hai National Univ. of Singapore
Liu, Fuchun Guangdong Univ. of Tech.
Chen, Ben M. National Univ. of Singapore
- 09:50-10:10 FrA1.5
Improvement of Recurrent Fuzzy Detection/diagnosis Functions Modeling. a Temporal Modeling Application for Fault States in a Manufacturing System, pp. 1456-1461.
Minca, Eugenia Univ. Valahia din Targoviste
Dragomir, Otilia Valahia Univ. of Targoviste
Brezeanu, Iulian Valahia Univ. of Targoviste
Dragomir, Florin Univ. Valahia din Targoviste

FrA2 Sea Flower Hall (level 1)

Factory Modelling and Automation I (Regular Session)

- Chair: Morrison, James R. KAIST
Co-Chair: Wang, Qing-Guo National Univ. of Singapore
- 08:50-09:10 FrA2.2
A Hybrid Algorithm for Scheduling in Job Shop Problem with Flexible Resources, pp. 1467-1472.
Wu, Wei Xian Jiaotong Univ.
Wei, Junhu Xi'an Jiaotong Univ.
Guan, Xiaohong Tsinghua Univ.
- 09:10-09:30 FrA2.3
Optimization of Manufacturing Systems Using Genetic Search and Multi-Resolution Simulation, pp. 1473-1480.
Guan, Zailin Huazhong Univ. of Science and Tech.
Wang, Chuangjian Huazhong Univ. of Science and Tech.
Huang, Jinguo Huazhong Univ. of Science and Tech.
Wan, Lizhi Huazhong Univ. of Science and Tech.
Peng, Yunfang Huazhong Univ. of Science and Tech.

09:30-09:50		FrA2.4
<i>Control of Wafer Release in Multi Cluster Tools</i> , pp. 1481-1487.		
Park, Kyungsu	KAIST (Korea Advanced Inst. of Science and Tech.	
Morrison, James R.	KAIST	
09:50-10:10		FrA2.5
<i>Closed Form Solutions for the Equilibrium Probability Distribution in the Closed Lu-Kumar Network under Two Buffer Priority Policies</i> , pp. 1488-1495.		
Jung, Seunghwan	KAIST	
Morrison, James R.	KAIST	

FrA3		Canghai Hall (level 1)
Optimal Control I (Regular Session)		
Chair: Ding, Zhengtao		The Univ. of Manchester
Co-Chair: Camblong, Haritza		ESTIA
08:30-08:50		FrA3.1
<i>Compensating Packet Dropout in Networked Control Systems Based on a Buffer</i> , pp. 1496-1501.		
Jin, Xin		Ocean Univ. of China,
Tang, Gong-You		Ocean Univ. of China
08:50-09:10		FrA3.2
<i>Comparison of Wind Turbine LQG Controllers Designed to Alleviate Fatigue Loads</i> , pp. 1502-1507.		
Said, Nourdine		ESTIA Recherche, Univ. of The Basque Country
Camblong, Haritza		ESTIA
Vechiu, Ionel		ESTIA Recherche
Tapia, Gerardo		Univ. of the Basque Country
09:10-09:30		FrA3.3
<i>Sequential Optimal Control for Serially Connected Isolated Structures Subject to Two-Directional Horizontal Earthquake</i> , pp. 1508-1511.		
Du, Yongfeng		Lanzhou Univ. of Tech.
Lin, Zhidan		Lanzhou Univ. of Tech.
09:30-09:50		FrA3.4
<i>Relationship between Maximum Principle and Dynamic Programming Principle for Stochastic Recursive Optimal Control Problems of Jump Diffusions and Applications to Finance</i> , pp. 1512-1518.		
Shi, Jingtao		Shandong Univ.
09:50-10:10		FrA3.5
<i>Online Optimal Queue Scheme for Enhanced Transport Over Wireless Links</i> , pp. 1519-1524.		
Wen, Tingting		Univ. of Manchester
Ding, Zhengtao		The Univ. of Manchester

FrA4		Sea Wind Hall (level 1)
Fault Detection I (Regular Session)		
Chair: Chen, Ben M.		National Univ. of Singapore
Co-Chair: Shao, Cheng		Dalian Univ. of Tech.
08:30-08:50		FrA4.1
<i>Fault Isolation and Identification Based on Adaptive Parameter Intervals for Nonlinear Dynamic Systems</i> , pp. 1525-1530.		
Li, Zetao		Guizhou Univ.
Dahhou, Boutaieb		LAAS-CNRS
09:10-09:30		FrA4.3
<i>Fault Diagnosis and Fault Tolerant Control for a Class of Nonlinear Singular Systems</i> , pp. 1536-1541.		
Yao, Lina		Zhengzhou Univ.
Cocquempot, Vincent		Univ. des Sciences et Tech. de Lille
09:30-09:50		FrA4.4
<i>Wavelet De-Noising Double-Threshold Optimization Method and Its Application</i> , pp. 1542-1546.		
Wang, Chuanxin		Dalian Univ. of Tech.
Shao, Cheng		Dalian Univ. of Tech.
Han, Yu		Dalian Univ. of Tech.

FrA5	Seacoast Hall A (level 2)
Micro and Nano Systems (Regular Session)	
Chair: Cai, Li	Science Inst. Air Force Engineering Univ. of CPLA
Co-Chair: Wang, Yung-Cheng	National Yunlin Univ.
08:30-08:50	FrA5.1
<i>Modeling of X-Y Macro-Positioning Stage Based on Non-Smooth Neural Networks</i> , pp. 1553-1556.	
Tan, Yonghong	Shanghai Normal Univ.
Dong, Ruili	Shanghai Normal Univ.
08:50-09:10	FrA5.2
<i>The Automatic Image Inspection System for Measuring Dimensional Parameters of a Saw Blade</i> , pp. 1557-1561.	
Wang, Yung-Cheng	National Yunlin Univ. of Science and Tech.
Lin, Jui-Chang	National Formosa Univ.
Chiu, Shih-Fong	National Yunlin Univ. of Science and Tech.
09:10-09:30	FrA5.3
<i>Digital-Analog and Analog-Digital Converters Based on Single-Electron and MOS Transistor</i> , pp. 1562-1566.	
Li, Qin	Science Inst. Air Force Engineering Univ. of CPLA
Cai, Li	Science Inst. Air Force Engineering Univ. of CPLA
Wu, Gang	Inst. of Science
09:30-09:50	FrA5.4
<i>Ternary Multiplier of Multigate Single Electron Transistor: Design Using 3-T Gate</i> , pp. 1567-1571.	
Wu, Gang	Inst. of Science
Cai, Li	Science Inst. Air Force Engineering Univ. of CPLA
09:50-10:10	FrA5.5
<i>Equipment Design and Process Control of Critical Dimensions in Lithography</i> , pp. 1572-1577.	
Ngo, Yit Sung	National Univ. of Singapore
Yang, Geng	National Univ. of Singapore
Putra, Andi	National Univ. of Singapore
Ang, Kar Tien	National Univ. of Singapore
Tay, Arthur	National Univ. of Singapore
Fang, ZhongPing	Singapore Inst. of Manufacturing Tech.
FrA6	Seacoast Hall B (level 2)
Synchronization of Networks (Regular Session)	
Chair: Wang, Yan-Wu	Huazhong Univ. of Science and Tech.
08:30-08:50	FrA6.1
<i>Adaptive-Impulsive Synchronization of Complex Dynamical Networks with Delays</i> , pp. 1578-1583.	
Xiao, Jiang-Wen	Huazhong Univ. of Science and Tech.
Miao, Wen-Tuan	Huazhong Univ. of Science and Tech.
Wang, Yan-Wu	Huazhong Univ. of Science and Tech.
Wu, Xuhui	Huazhong Univ. of Science and Tech.
08:50-09:10	FrA6.2
<i>Adaptive Synchronization of Complex Dynamical Networks with Two Types of Time-Varying Delays</i> , pp. 1584-1588.	
Miao, Wen-Tuan	Huazhong Univ. of Science and Tech.
Yuan, Tianqi	North China Inst. of Water Res. and Electric Power
Xiao, Jiang-Wen	Huazhong Univ. of Science and Tech.
Wang, Yan-Wu	Huazhong Univ. of Science and Tech.
09:10-09:30	FrA6.3
<i>Synchronization in Networked Mass-Spring-Damper Oscillator Systems</i> , pp. 1589-1594.	
Cheng, Shan	Shanghai Univ.
Xiang, Lan	Shanghai Univ.
Zhou, Jin	Shanghai Univ.
09:30-09:50	FrA6.4
<i>Reduced-Order Synchronization of Chaotic Systems: A Modular Adaptive Design</i> , pp. 1595-1600.	
Motallebzadeh, Foroogh	Iran Univ. of Science and Tech.
Jahed Motlagh, Mohammad Reza	Iran Univ. of Science and Tech.
Rahmani Cherati, Zahra	Babol Univ. of Tech.
09:50-10:10	FrA6.5
<i>Adaptive Synchronization of Novel Hyperchaotic Lorenz System Via Passive Control</i> , pp. 1601-1605.	
Fu, Guiyuan	Huaqiao Univ.
Li, Zhongshen	Huaqiao Univ.
FrA7	Seacoast Hall C (level 2)
Data-Driven Control and Diagnosis (Invited Session)	
Chair: Hou, Zhongsheng	Beijing Jiaotong Univ.
Co-Chair: Xu, Jian-Xin	National Univ. of Singapore
Organizer: Hou, Zhongsheng	Beijing Jiaotong Univ.
Organizer: Xu, Jian-Xin	National Univ. of Singapore
Organizer: Wang, Cong	South China Univ. of Tech.

08:30-08:50		FrA7.1
<i>The Robust Stability of Model Free Adaptive Control with Data Dropouts (I)</i> , pp. 1606-1611.		
Bu, Xuhui		Beijing Jiaotong Univ.
Hou, Zhongsheng		Beijing Jiaotong Univ.
08:50-09:10		FrA7.2
<i>A Data-Driven Bilinear Subspace Predictive Controller Design (I)</i> , pp. 1612-1617.		
Yang, Hua		Ocean Univ. of China
Li, Shaoyuan		Shanghai Jiao Tong Univ.
09:10-09:30		FrA7.3
<i>Data-Driven Approaches in Health Condition Monitoring – a Comparative Study (I)</i> , pp. 1618-1622.		
Geramifard, Omid		NUS
Xu, Jian-Xin		National Univ. of Singapore
Pang, Chee Khiang		National Univ. of Singapore
Zhou, Junhong		simtech
Li, Xiang		Agency for Science, Tech. and Res.
09:30-09:50		FrA7.4
<i>Model-Free Periodic Adaptive Control for a Class of SISO Nonlinear Discrete-Time Systems (I)</i> , pp. 1623-1628.		
Chi, Ronghu		Qingdao Univ. of Science and Tech.
Hou, Zhongsheng		Beijing Jiaotong Univ.
09:50-10:10		FrA7.5
<i>Rapid Detection of Oscillation Faults Via Deterministic Learning (I)</i> , pp. 1629-1634.		
Wang, Cong		South China Univ. of Tech.
Chen, Tianrui		South China Univ. of Tech.

FrB1		Lingbo Hall (level 1)
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Linear Systems I (Regular Session)		
Chair: Zhang, Weihai		Shandong Univ. of Science and Tech.
Co-Chair: Ding, Yihang		Univ. of Sheffield
10:40-11:00		FrB1.1
<i>New Comparisons and Overview of Interpolation Methods for the Uncertain Case</i> , pp. 1635-1640.		
Ding, Yihang		Univ. of Sheffield
Rossiter, J. Anthony		Univ. of Sheffield
11:00-11:20		FrB1.2
<i>Investigating the Solution Properties of Symmetric/skew-Symmetric LTI Homogeneous Matrix Descriptor Discrete-Time Systems with Consistent Initial Conditions and Constant Delay Period</i> , pp. 1641-1647.		
Pantelous, Athanasios		Univ. of Liverpool
Karageorgos, Athanasios		Univ. of Athens
Kalogeropoulos, Grigoris		Univ. of Athens
11:20-11:40		FrB1.3
<i>Modified Smith Predictor for Disturbance Rejection of Single Sinusoidal Signal</i> , pp. 1648-1653.		
Wu, Xiumei		Shanghai Second Pol. Univ.
11:40-12:00		FrB1.4
<i>Design of Guaranteed Cost Robust Hinf Reliable Controller for Uncertain Time Delay System against Actuator Failure</i> , pp. 1654-1659.		
Teng, Qingfang		Lanzhou Jiaotong Univ.
Fan, Duowang		Lanzhou Jiaotong Univ.
12:00-12:20		FrB1.5
<i>Regional Stability and Stabilizability of Linear Stochastic Systems: Discrete-Time Case</i> , pp. 1660-1665.		
Hou, Ting		Shandong Univ. of Science and Tech.
Zhang, Weihai		Shandong Univ. of Science and Tech.
Chen, Bor-Sen		National Tsing Hua Univ.

FrB2		Sea Flower Hall (level 1)
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Factory Modelling and Automation II (Regular Session)		
Chair: Huang, Hsing-Hsin		Ming-Hsin Univ. of Science and Tech.
10:40-11:00		FrB2.1
<i>Control of Boiler-Turbine Coordinated System Using Multiple-Model Predictive Approach</i> , pp. 1666-1671.		
Wu, Xiao		Southeast Univ.
Shen, Jiong		Southeast Univ.
Li, Yiguo		Southeast Univ.
11:00-11:20		FrB2.2
<i>A Feedrate Pre-Schedule NURBS Interpolation Method for High-Speed Machining</i> , pp. 1672-1677.		
Luan, Zongtao		Xi'an Jiaotong Univ.
Jiang, Gedong		Xi'an Jiaotong Univ.
Bai, Bing		Xi'an Jiaotong Univ.
Zhang, Yun		Xi'an Jiaotong Univ.
Mei, Xuesong		Xi'an Jiaotong Univ.
11:20-11:40		FrB2.3
<i>Study on Time Property of Enterprise Information System Based on Formal Representation</i> , pp. 1678-1682.		
Chaogai, Xue		Zhengzhou Univ.

Haiwang, Cao	Zhengzhou Inst. of Aeronautical Industry Management
Lili, Dong	Zhengzhou Univ.
11:40-12:00	FrB2.4
<i>Research on the High-Speed Pick and Place Device for Die Bonders</i> , pp. 1683-1687.	
Huang, Hsing-Hsin	Minghsin Univ. of Science and Tech.
Wey, Jay	Minghsin Univ. of Science and Tech.
12:00-12:20	FrB2.5
<i>Modeling and Fuzzy Controller Design for ACR Polymerizing-Kettles</i> , pp. 1688-1693.	
Zhou, Sun	Xiamen Univ.
Ji, Guoli	Xiamen Univ.

FrB3	Canghai Hall (level 1)
Optimal Control II (Regular Session)	
Chair: Schmid, Robert	Univ. of Melbourne
Co-Chair: Chen, Dongyan	Harbin Univ. Sci. Tech.
10:40-11:00	FrB3.1
<i>Optimal Tracking Control for Discrete-Time Systems with Delayed State and Input</i> , pp. 1694-1698.	
Han, Shi-Yuan	Ocean Univ. of China
Tang, Gong-You	Ocean Univ. of China
11:00-11:20	FrB3.2
<i>The Optimal Control of Delay Discrete-Time Linear System with Control Constraint</i> , pp. 1699-1704.	
Zhao, Hui	Harbin Univ. Sci. and Tech.
Chen, Dongyan	Harbin Univ. Sci. and Tech.
Hou, Ling	Harbin Univ. Sci. and Tech.
11:20-11:40	FrB3.3
<i>Optimal Control with Exponential Decay Rate for Offshore Platform Subjected to Irregular Wave Force</i> , pp. 1705-1709.	
Liang, Yan-Jun	Ocean Univ. of China
Tang, Gong-You	Ocean Univ. of China
Ma, Hui	Ocean Univ. of China
11:40-12:00	FrB3.4
<i>Control Elimination of Time Optimal Bang-Bang Control with a Class of Input Constraints</i> , pp. 1710-1715.	
Peng, Zhongxing	Peking Univ.
Yang, Ying	Peking Univ.
Huang, Lin	Peking Univ.
12:00-12:20	FrB3.5
<i>Estimation of Distribution Algorithm Sampling under Gaussian and Cauchy Distribution in Continuous Domain</i> , pp. 1716-1720.	
Luo, Na	East China Univ. of Science and Tech.
Qian, Feng	East China Univ. of Science and Tech.

FrB4	Sea Wind Hall (level 1)
Fault Detection II (Regular Session)	
Chair: Jia, Mingxing	Northeastern Univ.
10:40-11:00	FrB4.1
<i>Small Sample Size Problem of Fault Diagnosis for Process Industry</i> , pp. 1721-1725.	
Yu, Chunmei	Southwest Univ. of Science and Tech. Pol.
Pan, Quan	Northwestern Pol. Univ.
Cheng, Yongmei	Northwestern Pol. Univ.
Zhang, Hongcai	Northwestern Pol. Univ.
11:00-11:20	FrB4.2
<i>PCA Based Statistical Process Monitoring of Grinding Process</i> , pp. 1726-1730.	
Zhang, Lin	Tsinghua Univ.
Wang, Huangang	Tsinghua Univ.
Xu, Wenli	Tsinghua Univ.
Wang, Rui	Inst. of Automation, Jinchuan Group Ltd.
Zhang, Haifeng	Inst. of Automation, Jinchuan Group Ltd.
11:20-11:40	FrB4.3
<i>Optimal PCA-Based Modeling and Fault Diagnosis for Uneven-Length Batch Processes</i> , pp. 1731-1736.	
Jia, Mingxing	Northeastern Univ.
Li, Fengxiang	Shenyang Railway Mechanic Coll.
Guan, Shouping	Northeastern Univ.
11:40-12:00	FrB4.4
<i>Verification Experiments for High-Precision above Ground Marking System</i> , pp. 1737-1741.	
Sun, Liying	Tianjin Inst. of Urban Construction
12:00-12:20	FrB4.5
<i>Design of Leakage Detection and Location System for Long Range Crude Oil Pipeline</i> , pp. 1742-1746.	
Li, Yibo	Tianjin Univ.
Sun, Liying	Tianjin Inst. of Urban Construction
Wang, Likun	PetroChina Pipeline Company
Zhang, Lingli	Tianjin Inst. of Urban Construction

FrB5	Seacoast Hall A (level 2)
Nonlinear Systems and Control I (Regular Session)	
Chair: Chen, Ben M.	National Univ. of Singapore
10:40-11:00	FrB5.1
<i>Vector Metric of Boolean Matrices and Its Application to Stability and Stabilization of Boolean Networks</i> , pp. 1747-1751.	
Cheng, Daizhan	Chinese Acad. of Sciences
Qi, Hongsheng	Acad. of Mathematics & Systems Science, Chinese Acad. of Sci
Li, Zhiqiang	Chinese Acad. of Sciences
11:00-11:20	FrB5.2
<i>Pth Moment Exponential Stability of Stochastic Functional Differential Systems with Markovian Switching and Impulsive Perturbations</i> , pp. 1752-1757.	
Cheng, Pei	South China Univ. of Tech.
Peng, Yunjian	South China Univ. of Tech.
Deng, Feiqi	South China Univ. of Tech.
11:20-11:40	FrB5.3
<i>A Stability Theorem and Applications in Control Designs</i> , pp. 1758-1763.	
Xie, Chengkang	Southwest Univ.
Lin, Yi	Jiangnan Univ.
11:40-12:00	FrB5.4
<i>Analysis and Control of Bifurcation in TCP Fluid Model</i> , pp. 1764-1768.	
Liu, Feng	Huazhong Univ. of Science and Tech.
Guan, Zhi-Hong	Huazhong Univ. of Science & Tech.
Li, Yuqing	China Univ. of Geosciences(Wuhan)
Zhu, Guangxi	Huazhong Univ. of Science and Tech.
Wang, Hua O.	Boston Univ.
12:00-12:20	FrB5.5
<i>Polynomial Solutions to Regulation Equations with Nonlinear Exosystems</i> , pp. 1769-1773.	
Ding, Zhengtao	The Univ. of Manchester
FrB6	Seacoast Hall B (level 2)
System Modelling and Identification I (Regular Session)	
Chair: Xi, Bin	Xiamen Univ.
10:40-11:00	FrB6.1
<i>An Empirical Analysis of the Relationship between FAI and GDP</i> , pp. 1774-1777.	
Song, Minhui	Xiamen Univ.
Xi, Bin	Xiamen Univ.
11:00-11:20	FrB6.2
<i>A Inventory Model with Stochastic Lead-Time and Stochastic Demand</i> , pp. 1778-1782.	
Deng, Jun	Renmin Univ. of China
Song, Shiji	Tsinghua Univ.
Ji, Pengcheng	Tsinghua Univ.
Zhang, Bo	Renmin Univ. of China
11:20-11:40	FrB6.3
<i>Modeling and Analysis of Piezoelectric Bimorph Cantilever Used for Vibration Energy Harvesting</i> , pp. 1783-1788.	
Yang, Tao	Southwest Univ. of Science and Tech.
Lin, Yi	SWUST
Tan, Xianji	Southwest Science and Tech. Univ.
Feng, Yuehui	southwest Univ. of science and Tech.
11:40-12:00	FrB6.4
<i>Modeling and Optimization of Ocean-Going Unloading Problem with Stochastic Arrival Time</i> , pp. 1789-1795.	
Jin, Shengkai	Tsinghua Univ.
Song, Shiji	Tsinghua Univ.
Zhang, Yuli	Tsinghua Univ.
Wu, Cheng	Tsinghua Univ.
12:00-12:20	FrB6.5
<i>Dynamic Modeling of a Scott-Russell Amplifying Mechanism Driven by a Piezoelectric Actuator</i> , pp. 1796-1801.	
Chen, Ching-Ming	National Kaohsiung First Univ. of ScienceandTechnology
Fung, Rong-Fong	National Kaohsiung First Univ. of ScienceandTechnology
FrB7	Seacoast Hall C (level 2)
Intelligent Systems and Control (Invited Session)	
Chair: Yang, Simon X.	Univ. of Guelph
Organizer: Yang, Simon X.	Univ. of Guelph
10:40-11:00	FrB7.1
<i>Region Covariance Based Object Tracking Using Monte Carlo Method (I)</i> , pp. 1802-1805.	
Ding, Xiaofeng	Hohai Univ.
Huang, Chengrong	Nanjing Inst. of Tech.
Huang, Fengchen	Hohai Univ.

Xu, Lizhong	Hohai Univ.
Li, Xiao-fang	Hohai Univ.
11:00-11:20	FrB7.2
<i>Adaptive Measuring Algorithm for CMM Based on 5-Th Bézier Curve (I)</i> , pp. 1806-1811.	
He, Xueming	Jiangnan Univ.
Xue, Ying	Jiangnan Univ.
Ni, Minmin	Jiangnan Univ.
Hua, Chenliang	Jiangnan Univ.
Li, Chenggang	Huazhong Univ. of Science and Tech.
11:20-11:40	FrB7.3
<i>A Survey on Intelligent Interaction and Cooperative Control of Multi-Robot Systems (I)</i> , pp. 1812-1817.	
Zhu, Anmin	Shenzhen Univ.
Yang, Simon X.	Univ. of Guelph
11:40-12:00	FrB7.4
<i>A Data Integration Technology for the Application Service Platform of the Digital Yellow River (I)</i> , pp. 1818-1822.	
Li, Xiao-fang	Hohai Univ.
Xu, Guo-yan	Hohai Univ.
Wang, Zhi-jian	Hohai Univ.
Xu, Lizhong	Hohai Univ.
12:00-12:20	FrB7.5
<i>Probabilistic Formation-A New Idea of Multi-Robot Formation</i> , pp. 1823-1828.	
Ding, Yingying	Chang'an Univ.
He, Yan	Zhejiang Univ.

FrC1	Lingbo Hall (level 1)
Linear Systems II (Regular Session)	
Chair: Pantelous, Athanasios	Univ. of Liverpool
13:30-13:50	FrC1.1
<i>New Stability and Stabilization Criteria for Sampled Data Systems</i> , pp. 1829-1834.	
Zhu, Xunlin	Nanyang Tech. Univ.
Wang, Youyi	Nanyang Tech. Univ.

14:30-14:50	FrC1.4
<i>Research on Applications of Linear System Theory in Economics</i> , pp. 1843-1847.	
Xu, Daju	Shandong Jiaotong Univ.
Wang, Weiping	Univ. of International Relations
14:50-15:10	FrC1.5
<i>Performance Analysis of Iterative Algorithms for Sylvester Equations</i> , pp. 1848-1852.	
Schmid, Robert	Univ. of Melbourne
Tan, Ying	The Univ. of Melbourne
15:10-15:30	FrC1.6
<i>A Distributed Control Approach to Robust Output Regulation of Networked Linear Systems</i> , pp. 1853-1857.	
Wang, Xiaoli	Chinese Acad. of Sciences
Hong, Yiguang	Chinese Acad. of Sciences
Huang, Jie	Chinese Univ. of Hong Kong
Jiang, Zhong-Ping	Pol. Inst. of New York Univ.

FrC2	Sea Flower Hall (level 1)
Multi-Agent Systems I (Regular Session)	
Chair: Bogdan, Stjepan	Univ. of Zagreb
Co-Chair: Ding, Baocang	Chongqing Univ.
13:30-13:50	FrC2.1
<i>Flocking Control of Scalable Engineering Swarm System Based on Inverse Model and PSO Algorithm</i> , pp. 1858-1863.	
Chen, Shiming	East China Jiaotong Univ.
Jiang, Jihai	East China Jiaotong Univ.
Pei, Huiqing	East China Jiaotong Univ.
13:50-14:10	FrC2.2
<i>Multi-Agent Swarm Based Localization of Hazardous Events</i> , pp. 1864-1869.	
Varga, Maja	Univ. of Zagreb
Piškovići, Zvonimir	Univ. of Zagreb
Bogdan, Stjepan	Univ. of Zagreb

14:10-14:30		FrC2.3
<i>Necessary and Sufficient Conditions for Asymptotic Swarm Stability of High Order Swarm Systems</i> , pp. 1870-1875.		
Cai, Ning		Tsinghua Univ.
Xi, Jianxiang		Tsinghua Univ.
Zhong, Yisheng		Tsinghua Univ.
14:30-14:50		FrC2.4
<i>Flocking with Obstacle Avoidance Based on Fuzzy Logic</i> , pp. 1876-1881.		
Yu, Hui		China Three Gorges Univ.
Zhang, Tiecheng		China Three Gorges Univ.
Jian, Jigui		China Three Gorges Univ.
14:50-15:10		FrC2.5
<i>A Multi-Agent Coordinate Model for Urban Traffic Signal Control</i> , pp. 1882-1887.		
Dai, Yuanhui		Tsinghua Univ.
Duan, Houli		Tsinghua Univ.
Li, Zhiheng		Tsinghua Univ.
Zhang, Zuo		Tsinghua Univ.
15:10-15:30		FrC2.6
<i>Modeling and Simulation of Transfer Performance in Beijing Metro Stations</i> , pp. 1888-1891.		
Zhang, Qi		Beijing Jiaotong Univ.
Han, Baoming		Beijing Jiaotong Univ.

FrC3	Canghai Hall (level 1)
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Adaptive Control I (Regular Session)		
Chair: Zhang, Ji-Feng		Chinese Acad. of Sciences
13:30-13:50		FrC3.1
<i>SONIC - Self-Optimizing Narrowband Interference Canceler: Comparison of Two Frequency Tracking Strategies</i> , pp. 1892-1896.		
Niedzwiecki, Maciej		Tech. Univ. of Gdansk
Meller, Michal		Gdansk Univ. of Tech.
13:50-14:10		FrC3.2
<i>Multi-Objective Switching Control Via LMI Optimization</i> , pp. 1897-1902.		
Soltanian, Laven		K.N. Toosi Univ. of Technology
Khaki Sedigh, Ali		K.N. Toosi Univ. of Tech.
Namaki-Shoushtari, Omid		K.N. Toosi Univ. of Tech.
14:10-14:30		FrC3.3
<i>Logic-Based Switching Control of a Class of Nonlinear System</i> , pp. 1903-1908.		
Ke, Haisen		China Jiliang Univ. Hangzhou , 310018, China

14:50-15:10		FrC3.5
<i>Adaptive Design of Digital FIR Filter for Beamforming with Its Application in PSK UWA Communication</i> , pp. 1915-1918.		
Zhou, Chong		Xiamen Univ.
Cheng, En		Xiamen Univ.
Su, Wei		Xiamen Univ.
Sun, Haixin		Xiamen Univ.
15:10-15:30		FrC3.6
<i>Multiple Models Robust Adaptive Control with Reduced Model</i> , pp. 1919-1923.		
Liu, Jiazhen		East China Univ. of Science and Tech.
Wang, Zhenlei		East China Univ. of Science and Tech.
Wang, Xin		Shanghai Jiao Tong Univ.
Wang, Dahai		East China Univ. of Science and Tech.
Qian, Feng		East China Univ. of Science and Tech.

FrC4	Sea Wind Hall (level 1)
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Fault Detection III (Regular Session)		
Chair: Lee, SangCheol		DGIST
13:30-13:50		FrC4.1
<i>A Fast SVDD Algorithm Based on Decomposition and Combination for Fault Detection</i> , pp. 1924-1928.		
Luo, Jian		Xiamen Univ.
Li, Bo		Xiamen Univ.
Wu, Chang-qing		Xiamen Univ.
Pan, Yinghui		Xiamen Univ.
13:50-14:10		FrC4.2
<i>A Novel Analytical Framework for Qualitative Model-Based Fault Diagnosis</i> , pp. 1929-1934.		
Baniardalani, Sobhi		Isfahan Univ. of Tech.
Askari, J.		Isfahan Univ. of Tech.
Afzalian, Ali Akbar		Shahid Abbaspour Univ. of Tech.
14:10-14:30		FrC4.3
<i>The Design of Intelligent Fault Diagnosis System for High Power Microwave Systems</i> , pp. 1935-1938.		

Feng, Jianqiang
Shan, Jiafang
Yang, Yong
Wang, Mao
Xu, Handong
Hu, Huaichuan

Inst. of Plasma Physics, Chinese Acad. of Sciences
Inst. of Plasma Physics, Chinese Acad. of Sciences
Inst. of Plasma Physics, Chinese Acad. of Sciences
Inst. of Plasma Physics, Chinese Acad. of Sciences
Inst. of Plasma Physics, Chinese Acad. of Sciences

14:50-15:10		FrC4.5
<i>Mode Definition and Operation Strategies for Secondary Battery Assisted Hybrid-Type DMFC Systems</i> , pp. 1944-1948.		
Lee, SangCheol		DGIST
Chang, JungSook		DGIST
Lee, S.M.		Daegu Univ.
Park, Ju H		Yeungnam Univ.
15:10-15:30		FrC4.6
<i>Fault Diagnosis and Fault Tolerant Control for Singular Stochastic Distribution Systems</i> , pp. 1949-1954.		
Yao, Lina		Zhengzhou Univ.
Cocquempot, Vincent		Lille 1 Univ.
Wang, Hong		Univ. of Manchester

FrC5 Seacoast Hall A (level 2)

Nonlinear Systems and Control II (Regular Session)

Chair: Lan, Weiyao		Xiamen Univ.
Co-Chair: Wang, Youyi		Nanyang Tech. Univ.
13:30-13:50		FrC5.1
<i>Model and Control of Flight Attitude for Flapping Wing Micro Aerial Vehicle</i> , pp. 1955-1960.		
Duan, Hongjun		Northeastern Univ. at Qinhuangdao
Li, Qingwei		Northeastern Univ. at Qinhuangdao
13:50-14:10		FrC5.2
<i>Composite Nonlinear Feedback Control for SISO Singular Systems with Input Saturation</i> , pp. 1961-1966.		
Lin, Dongyun		Xiamen Univ.
Lan, Weiyao		Xiamen Univ.
Yang, Jianxiong		Xiamen Univ.
Li, Maoqing		Xiamen Univ.
14:10-14:30		FrC5.3
<i>Speed Control of Induction Motors Based on Energy-Shaping and Signal Transformation Principle</i> , pp. 1967-1971.		
Yu, Haisheng		Qingdao Univ.
Wei, Xiaochen		Qingdao
Liu, Jin		Qingdao Univ.
14:30-14:50		FrC5.4
<i>Design and Control of a Tri-Rotor Aircraft</i> , pp. 1972-1977.		
Fan, Penghui		Beihang Univ.
Wang, Xinhua		Beihang Univ.
Cai, Kai-Yuan		Beihang Univ.
14:50-15:10		FrC5.5
<i>Study on Time-Delay Impact on Electrical Response of PEMFC with Nonlinear Control</i> , pp. 1978-1983.		
Wang, Youyi		Nanyang Tech. Univ.
Jia, Junbo		Temasek Pol.
Xian, Liang		Southwest Jiaotong Univ.
Yang, Shunfeng		Southwest Jiaotong Univ.
15:10-15:30		FrC5.6
<i>Finite-Time Tracking Control of Permanent Magnet Synchronous Motor</i> , pp. 1984-1987.		
Ke, Haisen		China Jiliang Univ. Hangzhou , 310018, China

FrC6 Seacoast Hall B (level 2)

System Modelling and Identification II (Regular Session)

Chair: Xiang, Cheng		National Univ. of Singapore
13:30-13:50		FrC6.1
<i>Error Analysis of Approximated PCRLBs for Nonlinear Dynamics</i> , pp. 1988-1993.		
Lei, Ming		INRIA, Univ. Bordeaux-I in Bordeaux and CNRM/GAME URA1357,
Pierre, Del Moral		INRIA, Univ. of Bordeaux-I
Baehr, Christophe		CNRM/GAME URA1357, French National Centre for Meteorological Res.
13:50-14:10		FrC6.2
<i>Identification of Nonlinear Systems Using Hybrid Functions</i> , pp. 1994-1998.		
Dosthosseini, R.		Deakin Univ.

Sheikholeslam, Farid Kouzani, Abbas	Isfahan Univ. of Tech. (IUT) Deakin Univ.
14:10-14:30 <i>Identification of Sandwich Systems with Backlash with Hybrid Inputs</i> , pp. 1999-2004.	FrC6.3
Tan, Yonghong Dong, Ruili	Shanghai Normal Univ. Shanghai Normal Univ.
14:30-14:50 <i>Identification of Piecewise Affine Systems and Nonlinear Systems Using Multiple Models</i> , pp. 2005-2012.	FrC6.4
Lai, Chow Yin Xiang, Cheng Lee, Tong Heng	National Univ. of Singapore National Univ. of Singapore National Univ. of Singapore
14:50-15:10 <i>Input Time Delay Systems Identification Via Wavelet Approach</i> , pp. 2013-2017.	FrC6.5
Najafi, Majdeddin Zekri, Maryam Askari, J.	Isfahan Univ. of Tech. Isfahan Univ. of Tech. Isfahan Univ. of Tech.

FrC7	Seacoast Hall C (level 2)
Networked Dynamical Systems I (Invited Session)	
Chair: Lin, Hai Co-Chair: Xie, Lihua Organizer: Lin, Hai Organizer: Xie, Lihua	National Univ. of Singapore Nanyang Tech. Univ. National Univ. of Singapore Nanyang Tech. Univ.
13:30-13:50 <i>A Consensus Approach to the Assignment Problem: Application to Mobile Sensor Dispatch (I)</i> , pp. 2024-2029.	FrC7.1
Wongpiromsarn, Tichakorn You, Keyou Xie, Lihua	California Inst. of Tech. Nanyang Tech. Univ. Nanyang Tech. Univ.
13:50-14:10 <i>Coordination of Nonlinear Multi-Agent Systems with Multiple Leaders and Switching Topologies (I)</i> , pp. 2030-2035.	FrC7.2
Shi, Guodong Hong, Yiguang	Key Lab. of Systems and Control, Chinese Acad. of Sciences Chinese Acad. of Sciences
14:10-14:30 <i>Output Feedback Control of Nonlinear Systems under Unreliable Communication Links Via T-S Fuzzy Models (I)</i> , pp. 2036-2041.	FrC7.3
Qiu, Jianbin Feng, Gang Gao, Huijun	Harbin Inst. of Tech. City Univ. of Hong Kong Harbin Inst. of Tech.
14:30-14:50 <i>Optimal Task Automaton Decomposabilization for a Class of Global Specifications (I)</i> , pp. 2042-2047.	FrC7.4
Karimadini, Mohammad Lin, Hai	National Univ. of Singapore National Univ. of Singapore
14:50-15:10 <i>Synchronization of Unknown Nonlinear Networked Systems Via Cooperative Adaptive Control (I)</i> , pp. 2048-2055.	FrC7.5
Das, Abhijit Lewis, Frank L.	The Univ. of Texas at Arlington Univ. of Texas at Arlington
15:10-15:30 <i>Flocking of Mobile Agents While Preserving Connectivity Based on Finite Potential Functions (I)</i> , pp. 2056-2061.	FrC7.6
Wang, Lin Wang, Xiaofan	Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ.

FrD1	Lingbo Hall (level 1)
Motion Control (Regular Session)	
Chair: Lan, Weiyao Co-Chair: Huangfu, Yigeng	Xiamen Univ. Northwestern Pol. Univ.
16:20-16:40 <i>A Unified Dual-Stage Actuator Control Scheme for Track Seeking and Following in Hard Disk Drives</i> , pp. 2067-2072.	FrD1.2
Zheng, Jinchuan Fu, Minyue	The Univ. of Newcastle, Australia Univ. of Newcastle
16:40-17:00	FrD1.3

<i>Speed Sensorless Control of the Permanent-Magnet Synchronous Motor Based on Wavelet Neural Networks</i> , pp. 2073-2076.	Guangdong Univ. of Tech. South China Univ. of Tech.
Li, Yu-zhou Zhao, Ke-gang	
17:00-17:20	FrD1.4
<i>MATLAB and LabVIEW in Modeling, Analysis and Real Time Control of a Motion Control System</i> , pp. 2077-2081.	Roketsan Missiles Inc.
Tekin, Raziye	
17:20-17:40	FrD1.5
<i>A Chattering Avoidance Sliding Mode Control for PMSM Drive</i> , pp. 2082-2085.	Northwestern Pol. Univ. Supélec / CNRS Northwestern Pol. Univ. Univ. de Tech. de Belfort-Montbéliard
Huangfu, Yigeng Laghrouche, Salah Liu, Weiguo Miraoui, Abdellatif	
17:40-18:00	FrD1.6
<i>A Novel Decoupling Controller Design for Parallel Motion Platforms</i> , pp. 2086-2091.	Amirkabir Univ. of Tech. Amirkabir Univ. of Tech. Amirkabir Univ. of Tech.
Aminzadeh, Masoomeh Mahmoodi, Ali Menhaj, Mohammad Bagher	

FrD2 Sea Flower Hall (level 1)

Multi-Agent Systems II (Regular Session)

Chair: Guan, Zhi-Hong	Huazhong Univ. of Science & Tech.
16:00-16:20	FrD2.1
<i>Backstepping-Based Direct Adaptive Fuzzy Formation Control of Uncertain Mobile Robots</i> , pp. 2092-2097.	Beijing Univ. of Aeronautics and Astronautics Beijing Univ. of Aeronautics and Astronautics
Wu, Kong-Yi Huo, Wei	
16:20-16:40	FrD2.2
<i>Almost Sure Stability of Discrete-Time Switched Linear Systems</i> , pp. 2098-2103.	Southern Illinois Univ. Nanjing Univ. Zhongshan (Sun Yat-Sen) Univ.
Xiao, Mingqing Dai, Xiongping Huang, Yu	
16:40-17:00	FrD2.3
<i>Cooperative Shadowing Algorithm: A Speed-Only Approach</i> , pp. 2104-2109.	the Australian National Univ. Australian National Univ. Shandong Acad. of Sciences Shandong Acad. of Science
Hou, Xiaolei Yu, Changbin Gu, Weidong Dong, Huomin	
17:00-17:20	FrD2.4
<i>Control of Industrial Clusters Around Cities under Multi-Agent Systems Approach</i> , pp. 2110-2114.	Tianjin Binhai Comprehensive Development Inst. bank of beijing Inst. of Systems Science, Chinese Acad. of Sciences
Wu, Jianxin Zhiguo, Deng Wang, Jiankui	
17:20-17:40	FrD2.5
<i>Robust Consensus Control in Networks of Agents with Singular Systems</i> , pp. 2115-2119.	Huazhong Univ. of Science and Tech. Huazhong Univ. of Science & Tech. Petroleum Engineering Coll. Yangtze Univ. Coll. of Electronics and Information, Yangtze Univ.
Wu, Yonghong Guan, Zhi-Hong Liao, Rui-Quan Li, Tao	
17:40-18:00	FrD2.6
<i>Automatic Irrigation System Based on Wireless Network</i> , pp. 2120-2125.	Tianjin Univ. of Tech. and Education
Yang, Genghuang	

FrD3 Canghai Hall (level 1)

Adaptive Control II (Regular Session)

Chair: Lewis, Frank L.	Univ. of Texas at Arlington
Co-Chair: Chen, Xuedong	huazhong Univ. of science and Tech.
16:00-16:20	FrD3.1
<i>Output-Feedback Model Reference Adaptive Control of Linear Continuous State Delayed Systems in the Presence of Actuator Failures</i> , pp. 2126-2131.	Isfahan Univ. of Tech. Isfahan Univ. of Tech.
Kamali, Marzieh Askari, J.	
16:20-16:40	FrD3.2
<i>Adaptive Friction Compensation in a Two-Link Planar Robot Manipulator Using a New Lyapunov-Based Controller</i> , pp. 2132-2137.	Islamic Azad Univ. Branch Shahid Abbaspour Univ.
Noorbakhsh, Mohammad Yazdizadeh, Alireza	
16:40-17:00	FrD3.3
<i>Optimal Adaptive Control for Unknown Systems Using Output Feedback by Reinforcement Learning</i> , pp. 2138-2145.	Univ. of Texas at Arlington The Univ. of Texas at Arlington
Lewis, Frank L. Vamvoudakis, Kyriakos	
17:00-17:20	FrD3.4

<i>An Adaptive Force and Position Controller Based on Force Estimation</i> , pp. 2146-2151.	
Ghajar, Mohammad-Hossein Danesh, Mohammad	Isfahan Univ. of Tech. (IUT) Isfahan Univ. of Tech. (IUT)
17:20-17:40	FrD3.5
<i>Modelling and Control of Hybrid Vibration Isolation System for High-Precision Equipment</i> , pp. 2152-2157.	
Pu, Huayan Luo, Xin Jiang, Wei Dong, Kaka Chen, Xuedong	Huazhong Univ. of Science and Tech. Huazhong Univ. of Science and Tech. Huazhong Univ. of Science and Tech. Huazhong Univ. of Science and Tech. Huazhong Univ. of Science and Tech.
17:40-18:00	FrD3.6
<i>Ship Stabilization Control Using an Adaptive Input Disturbance Predictor</i> , pp. 2158-2161.	
Liu, Jingyang Allen, Robert Yi, Hong Zhang, Yufang	Shanghai Jiao Tong Univ. Univ. of Southampton Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ.

FrD4 Sea Wind Hall (level 1)

Fault Detection IV (Regular Session)	
Chair: Xiang, Cheng	National Univ. of Singapore
16:00-16:20	FrD4.1
<i>Fault Diagnosis for Switched Systems with Time Delay</i> , pp. 2162-2165.	
Dongsheng, Du Jiang, Bin Peng, Shi	Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics Victoria Univ.
16:20-16:40	FrD4.2
<i>Fair Diagnosability in PN-Based DES Models</i> , pp. 2166-2171.	
Ajoy, Khan Misra, Kushagra Biswas, Santosh Deka, J Kapoor, H	Assam Univ. Silchar, Assam India IIT Guwahati IIT GuwahatiINDIA IIT Guwahati IIT Guwahati
16:40-17:00	FrD4.3
<i>Event Scheduling of Timed Automata Using Dioid Algebra</i> , pp. 2172-2176.	
Baniardalani, Sobhi Askari, J. Afzalian, Ali Akbar	Isfahan Univ. of Tech. Isfahan Univ. of Tech. Shahid Abbaspour Univ. of Tech.
17:00-17:20	FrD4.4
<i>A Safety Related Analog Input Module Based on Diagnosis and Redundancy</i> , pp. 2177-2182.	
Yu, Hongzhou Xu, Aidong Shi, Gang	Shenyang Inst. of Automation (SIA) Shenyang Inst. of Automation (SIA) Shenyang Inst. of Automation (SIA)
17:20-17:40	FrD4.5
<i>Fault-Tolerant Control for Networked Control Systems with Network-Induced Delay and Multiple Packet Transmission</i> , pp. 2183-2188.	
Li, Yuqing Fang, Huajing Liu, Feng	China Univ. of Geosciences(Wuhan) Huazhong Univ. of Science and Tech. China Univ. of Geosciences
17:40-18:00	FrD4.6
<i>Fuzzy Model Based Fault Detection for Nonlinear NCS with Packet Dropout</i> , pp. 2189-2194.	
Cui, Lei Yang, Ying Xu, Shiyun	Peking Univ. Peking Univ. Peking Univ.

FrD5 Seacoast Hall A (level 2)

New Trends in Intelligent Nonlinear Control of Robotic Systems (Invited Session)	
Chair: Pang, Chee Kiang	National Univ. of Singapore
Co-Chair: Wang, Chaoli	The Univ. of Shanghai for Science and Tech.
Organizer: Pang, Chee Kiang	National Univ. of Singapore
Organizer: Jia, QingWei	Hitachi Asia Ltd
16:00-16:20	FrD5.1
<i>Robust Stabilization of Nonholonomic Mobile Robots with Uncalibrated Camera Parameters (I)</i> , pp. 2195-2200.	
Wang, Chaoli Liang, Zhenying Jia, QingWei	The Univ. of Shanghai for Science and Tech. Univ. of Shanghai for Science and Tech. Hitachi Asia Ltd
16:20-16:40	FrD5.2
<i>Robust Adaptive Neuro-Fuzzy Control of Uncertain Nonholonomic Systems (I)</i> , pp. 2201-2206.	
Hong, Fan Ge, Shuzhi Sam Pang, Chee Kiang Lee, Tong Heng	Data Storage Inst. A*STAR National Univ. of Singapore National Univ. of Singapore National Univ. of Singapore

Sun, Zhendong	South China Univ. of Tech.
16:40-17:00	FrD5.3
<i>Trajectory Tracking Control of a Nonholonomic Mobile Robot (I)</i> , pp. 2207-2211.	
Yuan, Zhanping	Tongji Univ.
Wang, Zhuping	Tongji Univ.
Chen, Qijun	Tongji Univ.
17:00-17:20	FrD5.4
<i>Modelling Human Falling Process Based on a Five-Link Bipedal Robot (I)</i> , pp. 2212-2217.	
Xu, Jian-Xin	National Univ. of Singapore
Sun, Yuanguang	National Univ. of Singapore
Pang, Chee Khiang	National Univ. of Singapore
17:20-17:40	FrD5.5
<i>Graph Rigidity Control of Mobile Robot Networks (I)</i> , pp. 2218-2223.	
Wang, Hua	Stevens Inst. of Tech. NJ USA
Guo, Yi	Stevens Inst. of Tech.
Dong, Z.Y.	The Hong Kong Pol. Univ.

FrD6 Seacoast Hall B (level 2)

System Modelling and Identification III (Regular Session)

Chair: Ding, Zhengtao	The Univ. of Manchester
16:00-16:20	FrD6.1
<i>Damping Estimation and Control of a Contactless Brake System Using an Eddy Current</i> , pp. 2224-2228.	
Huang, Sunan	National Univ. of Singapore
Tan, Kok Kiong	National Univ. of Singapore
16:20-16:40	FrD6.2
<i>Modeling Rate-Dependent Hysteresis in Piezoelectric Actuators Using Neural Networks Based on Expanded Input Space Method</i> , pp. 2229-2233.	
Zhao, Xinlong	Zhejiang Sci-Tech. Univ.
Tan, Yonghong	Shanghai Normal Univ.
16:40-17:00	FrD6.3
<i>Optimization on Distillation Via Piecewise Linear Approximation</i> , pp. 2234-2239.	
Zhu, Ying	Tsinghua
Lu, Wenxiang	Tsinghua Univ.
Gao, Xiaoyong	Tsinghua Univ.
Huang, Dexian	Tsinghua Univ.
Jiang, Yongheng	Dept. of Automation, Tsinghua Univ.
17:00-17:20	FrD6.4
<i>Modeling and Control of Three-Phase Grid-Connected Photovoltaic Inverter</i> , pp. 2240-2245.	
Ma, Liang	Beijing Jiaotong Univ.
Ran, Wang	Inst. Department of Electrical Engineering, BeijingJiaoton
Zheng, Trillion Q	Inst. Department of Electrical Engineering, BeijingJiaoton
17:20-17:40	FrD6.5
<i>Wind Speed Dynamical Model in a Wind Farm</i> , pp. 2246-2250.	
Soleimanzadeh, Maryam	Aalborg Univ.
Wisniewski, Rafael	Section for Automation and Control, Aalborg Univ.
17:40-18:00	FrD6.6
<i>Electric Vehicle Platform for Drivability Analysis</i> , pp. 2251-2257.	
Eller, Benjamin	Renault
Hetet, Jean-François	CNRS - Ec. Centrale Nantes
Andre, Sylvie	Renault
Hennequet, Gonzalo Antoine	Renault

FrD7 Seacoast Hall C (level 2)

Networked Dynamical Systems II (Invited Session)

Chair: Lin, Hai	National Univ. of Singapore
Co-Chair: Xie, Lihua	Nanyang Tech. Univ.
Organizer: Lin, Hai	National Univ. of Singapore
Organizer: Xie, Lihua	Nanyang Tech. Univ.
16:00-16:20	FrD7.1
<i>A Synthesis Approach of Model Predictive Control for Linear Systems Over Networks with Bounded Packet Loss (I)</i> , pp. 2258-2263.	
Ding, Baocang	Chongqing Univ.
16:20-16:40	FrD7.2
<i>Convergence Properties of Distributed Estimators for Heterogeneous Wireless Sensor Networks (I)</i> , pp. 2264-2269.	
Shanying, Zhu	Shanghai Jiao Tong Univ.
Chen, Cailian	Shanghai Jiao Tong Univ.
Guan, Xiping	Shanghai Jiao Tong Univ.
Long, Chengnian	Yanshan Univ.
16:40-17:00	FrD7.3
<i>Remotely Cut-Off Electrical Generators to Improve the Transient Stability of Faulty Power Systems (I)</i> , pp. 2270-2273.	

Ling, Qiang	Univ. of Science and Tech. of China
Yang, Peng	Chengdu Electric Power Bureau
17:00-17:20	FrD7.4
<i>New Slow-Switching Laws for Switched Linear Systems (I)</i> , pp. 2274-2277.	
Wu, Jun	SCUT
Sun, Zhendong	South China Univ. of Tech.
17:20-17:40	FrD7.5
<i>Static Output Feedback H-Infinity Control for Discrete-Time Markov Jump Linear Systems (I)</i> , pp. 2278-2283.	
Che, Weiwei	EEE
Wang, Jianliang	Nanyang Tech. Univ.
17:40-18:00	FrD7.6
<i>Convergence Rate of Distributed Consensus for Second-Order Multi-Agent Systems</i> , pp. 2284-2289.	
Yu, Zhong	School of EEE, NTU
Xie, Lihua	Nanyang Tech. Univ.