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Technical Program for Wednesday June 12, 2013

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Rubió-Massegú, Josep Univ. Pol. de Catalunya
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Emrehan, Ahmet Furkan Istanbul Tech. Univ.

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Co-Chair: Hu, Jing Zhejiang Univ.

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Hakem, Assia LAGIS FRE 3303 Univ. Lille1
Cocquempot, Vincent Lille 1 Univ.
Pekpe, Komi Midzodzi Univ. Lille 1, LAGIS

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Jin, Shangtai Beijing Jiaotong Univ.
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Sun, Xubin Beijing Jiaotong Univ.
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Wang, Hong Univ. of Manchester
Chai, Tianyou Northeastern Univ. of China
Res. Center of Automation
Dong, Hairong Beijing Jiaotong Univ.

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Co-Chair: Wang, Dayi	Beijing Inst. of Control Engineering
Organizer: Wang, Dayi	Beijing Inst. of Control Engineering
Organizer: Jiang, Bin	NUAA
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Qi, Haiming	NUAA
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Co-Chair: Hu, Guoqiang	Nanyang Tech. Univ.
Organizer: Ren, Wei	Univ. of California, Riverside
Organizer: Hu, Guoqiang	Nanyang Tech. Univ.
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Hu, Guoqiang	Nanyang Tech. Univ.
Yu, Wenwu	Southeast Univ.
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Li, Sen	The Ohio State Univ.
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Wang, Hui	Zhejiang Univ.
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Hu, Guoqiang	Nanyang Tech. Univ.
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Feng, Gang	City Univ. of Hong Kong
Huang, Yanyan	Nanjing Univ. of Science and Tech.
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Wen, 32644	Southeast Univ.
Lu, Jinhu	ChineseAcademyof Sci
Yu, Xinghuo	RMIT Univ.
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Chair: Tang, K.Z.	National Univ. of Singapore
Co-Chair: Shan, Liang	Nanjing Univ. of Science & Tech.
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Wang, Jianbo	Nanjing Univ. of Science & Tech.
Shan, Liang	Nanjing Univ. of Science & Tech.
Kong, Jianshou	Nanjing Univ. of Science & Tech.

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Fu, Minyue	Univ. of Newcastle

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Liang, Tao	Shandong Electric Power Engineering Consulting Inst. Corp. L
Song, Wen	Shandong Univ.
Li, Qiqiang	Shandong Univ.

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Mi, Yang	Shanghai Univ. of Electrical Power

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Co-Chair: Deng, Qijun	Wuhan Univ.

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Cheng, Guoyang	Fuzhou Univ.

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Like, Gao	Guangxi Power Grid Coporation
Hu, Wenshan	WUHAN Univ.
Xie, Xiongwei	Guangxi Power Grid Corp.
Deng, Qijun	Wuhan Univ.
Wu, Zhiding	Guangxi Power Grid Corp.
Zhou, Hong	Wuhan Univ.
Jiang, Yan	wuhan Univ.

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Deng, Qijun	Wuhan Univ.
Xie, Xiongwei	Guangxi Power Grid Corp.
Hu, Wenshan	WUHAN Univ.
Like, Gao	Guangxi Power Grid Coporation
Zhou, Hong	Wuhan Univ.
Liu, Changkun	Wuhan Univ.

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Like, Gao	Guangxi Power Grid Coporation

Hu, Wenshan	WUHAN Univ.
Wu, Zhiding	Guangxi Power Grid Corp.
Deng, Qijun	Wuhan Univ.
Xie, Xiongwei	Guangxi Power Grid Corp.
Zhou, Hong	Wuhan Univ.
Luo, Shengqi	Wuhan Univ.

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Huang, Tianfu	North Electric Power Univ.

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Zhuang, Hong	Zhejiang Univ.
Zheng, Jianfeng	Zhejiang Univ.
Yang, Qinmin	Zhejiang Univ.
Chen, Jinshui	Zhejiang Univ.
Sun, Youxian	Zhejiang Univ.

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Ding, Steven X.	Univ. of Duisburg-Essen
Haghani, Adel	Univ. of Duisburg-Essen
Engel, Peter	PC-Soft GmbH
Jeansch, Torsten	IAV GmbH

WeCP3	VIP Room
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Chair: Wang1, Qiang1	China Jiliang Univ.
Co-Chair: Chen, Qiang	Zhejiang Univ. of Tech.

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Wen, Chenglin	Hangzhou Dianzi Univ.

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Ren, Xuemei	Beijing Inst. of Tech.
Xing, Kexin	Zhejiang Univ. of Tech.

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Huang, Dexian	Tsinghua Univ.
Yang, Yue	Yunnan Dawei Ammonia Co. LTD

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Xu, Pengmin	Qingdao Agricultural Univ.
Gai, Lingyun	Qingdao Agricultural Univ.
Wang, Hai	Qingdao Agricultural Univ.
Lv, Guangjie	Qingdao Agricultural Univ.
Shi, Hongtao	Qingdao Agricultural Univ.

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Chen, Jing	Shandong Univ. of Science and Tech.

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Zheng, Yufan	Univ. of Shanghai

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Zuo, Xin	China Univ. of Petroleum
Wang, Lijun	China Univ. of Petroleum, Beijing

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Yao, Zhen	the Department of Chemical &

Biological Engineering

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Li, Jian	Henan Univ. of Science and Tech.
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Gu, Yong	State Key Lab. of Industrial Control Tech. Inst.
Su, Hongye	State Key Lab. of Industrial Control Tech. Inst.

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Zhao, Chunhui	Zhejiang Univ.
Gao, Furong	Hong Kong Univ. of Science & Tech.

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Ding, Steven X.	Univ. of Duisburg-Essen
Wang, Ying	Univ. of Duisburg-Essen
Shen, Bo	Donghua Univ. China

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Zheng, Chaoxu	Univ. of New South Wales
Bao, Jie	Univ. of New South Wales

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Zhang, Cheng-Jin	Shandong Univ.

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Qiu, Li Hong Kong Univ. of Sci. & Tech.

WeD2 Magnolia
Process Control & Instrumentation I (Regular Session)

Chair: Sui, Dan Sintef, Norway
Co-Chair: Huang, Wenjun Zhejiang Univ. Zhejiang SUPCON Tech. Co., Ltd.

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Xu, Yi Zhejiang Supcon Tech. Co., Ltd
Li, Long Zhejiang Univ.
Li, Dewen Zhejiang Univ.
Huang, Wenjun Zhejiang Univ.

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Li, Li Nanjing Univ.
Zhang, Yuang Nanjing Univ.
Pan, Hongbing Nanjing Univ.
He, Shuzhuan Nanjing Univ.

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Yu, Liyong RWTH Aachen Univ.
Schüller, Andreas RWTH Aachen
Epple, Ulrich RWTH Aachen Univ.

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Yang, Jiang Zhejiang Univ.
Wu, Yu Zhejiang Univ.
Lu, Jiangang Zhejiang Univ.

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Sui, Dan Sintef, Norway
Nybø, Roar Drilling and well construction, Sintef
Azizi, Vahid Baker Hughes Company

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Li, Dewen Zhejiang Univ.
Huang, Wenjun Zhejiang Univ. SUPCON Group Co., Ltd
Li, Long Zhejiang Univ.
Li, Long Zhejiang Univ.

WeD3 Plum Blossom
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Chair: Duan, Haibin Beihang Univ.
Co-Chair: Lan, Weiyao Xiamen Univ.

Organizer: Duan, Haibin Beihang Univ.
Organizer: Lan, Weiyao Xiamen Univ.

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Duan, Haibin Beihang Univ.
Li, Pei BUAA
Di, Bin BUAA

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Tian, Peigang Beijing Inst. of Tech.

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Hong, Luhe Xiamen Univ.
Lan, Weiyao Xiamen Univ.

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Zhang, Yunfeng National Univ. of Singapore
Wang, Jingjing National Univ. of Singapore
Fuh, Jerry Ying Hsi National Univ. of Singapore
Teo, S H DSO National Lab.

WeD4 Narcissus

Computational Intelligence: Algorithms and Applications (Invited Session)

Chair: Shim, Vui Ann Inst. for Infocomm Res.
Co-Chair: Do, Yongtae Daegu Univ.
Organizer: Tan, Kay Chen NUS

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Chen, Huajun Zhejiang Univ.
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Tian, Bo Inst. for Infocomm Res.
Shim, Vui Ann Inst. for Infocomm Res.

Tan, Kay Chen	NUS
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Cai, Xinye	Nanjing Univ. of Aeronautics&Astronautics
Wei, Ou	Nanjing Aeronautics and Astronautics Univ.
17:00-17:20	WeD4.4
<i>On the Neural Computation of the Scale Factor in Perspective Transformation Camera Model (I)</i> , pp. 418-423.	
Do, Yongtae	Daegu Univ.
17:20-17:40	WeD4.5
<i>Extreme Learning Machine with Multiple Kernels (I)</i> , pp. 424-429.	
Su, Li Juan	Zhejiang Univ.
Yao, Min	Zhejiang Univ.
17:40-18:00	WeD4.6
<i>Building a Commonsense Knowledge Base for Context-Awareness Inference (I)</i> , pp. 430-435.	
Zhang, Li	Zhejiang Univ.
Li, Shijian	Zhejiang Univ.
Pan, Gang	Zhejiang Univ.
WeDP1	VIP Room
Adaptive Control (Interactive Session)	
Chair: Chen, Wen	Wayne State Univ.
Co-Chair: Li, Jin-hui	NUDT
16:00-18:00	WeDP1.1
<i>Mass Adaptation of Maglev Levitation System Based on Feedback Linearization</i> , pp. 436-440.	
Li, Jin-hui	NUDT, Maglev engineering center
Li, Jie	National Univ. of Defense Tech.
Cui, Peng	National Univ. of Defense Tech.
16:00-18:00	WeDP1.2
<i>Adaptive Neural Sliding Mode Compensator for MEMS Gyroscope</i> , pp. 441-446.	
Yang, Yuzheng	Hohai Univ.
Fei, Juntao	Hohai Univ.
16:00-18:00	WeDP1.3
<i>Robust Fault Detection of Turbofan Engines Subject to Adaptive Controllers Via a ToMFIR Technique</i> , pp. 447-451.	
Chen, Wen	Wayne State Univ.
Djuric, Ana	Wayne State Univ.
16:00-18:00	WeDP1.4
<i>Adaptive Back-Stepping Control of Active Magnetic Bearings</i> , pp. 452-457.	
Dong, Lili	Cleveland State Univ.
You, Silu	Cleveland State Univ.
16:00-18:00	WeDP1.5
<i>Adaptive Learning Control for a Class of Uncertain Nonlinear Systems</i> , pp. 458-463.	
Ding, Jian	Jiangnan Univ.
Yang, Huizhong	Jiangnan Univ.
16:00-18:00	WeDP1.6
<i>Adaptive High Order Sliding Mode Controller Design for Hypersonic Vehicle</i> , pp. 464-468.	
Tian, Bailing	Tianjin Univ.
Fan, Wenru	Civil Aviation Univ. of China

16:00-18:00	WeDP1.7
<i>Switched Hybrid Position Control of Elastic Systems with Backlash</i> , N/A	
Muhammad Khan, Burhan	Univ. of Central Punjab
WeDP2	VIP Room
Integrated Manufacturing (Interactive Session)	
Chair: Cui, Wei-Wei	Shanghai Jiao Tong Univ.
Co-Chair: Luo, Jiaxiang	South China Univ. of Tech.
16:00-18:00	WeDP2.1
<i>Simultaneously Scheduling Production Plan and Maintenance Policy for a Single Machine with Failure Uncertainty</i> , pp. 475-480.	
Cui, Wei-Wei	Shanghai Jiao Tong Univ.
Lu, Zhiqiang	Tongji Univ.
16:00-18:00	WeDP2.2
<i>Benders Approach for the Raw Material Transportation Scheduling Problem in Steel Industry</i> , pp. 481-484.	
Sun, Defeng	Northeastern Univ. China
Tang, Lixin	Northeastern Univ.
16:00-18:00	WeDP2.3
<i>A Hybrid Differential Evolution Algorithm for the Multi-Objective Reentrant Job-Shop Scheduling Problem</i> , pp. 485-489.	
Qian, Bin	Kunming Univ. of Science and Tech.
Li, Zh	Kunming Univ. of Science and Tech.
Hu, Rong	Kunming Univ. of Science and Tech.
Zhang, Cs	Kunming Univ. of Science and Tech.
16:00-18:00	WeDP2.4
<i>A New GRASP and Path Relinking for Single Machine Scheduling with Sequence Dependent Setups</i> , pp. 490-495.	
Luo, Jiaxiang	South China Univ. of Tech.
Hu, Yue-ming	South China Univ. of Tech.
16:00-18:00	WeDP2.5
<i>An Adaptive Scheduling System in Knowledgeable Manufacturing Based on Multi-Agent</i> , pp. 496-501.	
Wang, Haoxiang	Southeast Univ.
Yan, Hongsen	Southeast Univ.
WeDP3	VIP Room
Nonlinear Systems and Control I (Interactive Session)	
Chair: Yang, Xi	Zhejiang Univ. of Tech.
Co-Chair: Mu, Chaoxu	Tianjin Univ.
16:00-18:00	WeDP3.1
<i>A Note on Discrete Waveform Relaxation of Stiff Index-1 Differential Algebraic Equations</i> , pp. 502-506.	
Sun, Wei	XIJING Univ.
Fan, Xiao-Guang	Engineering Inst. Air Force Engineering Univ.
16:00-18:00	WeDP3.2
<i>Output Feedback Control for a Class of Nonlinear Time Delay Systems with Prescribed Performance</i> , pp. 507-512.	
Hua, Changchun	Yanshan Univ.
Zhang, Liulu	yanshan Univ.
16:00-18:00	WeDP3.3
<i>Controllability of Impulsive Fractional Stochastic Partial Differential Equations</i> , pp. 513-517.	
Lei, Zhang	Donghua Univ.
Ding, Yongsheng	Donghua Univ.

Kuangrong, Hao	Donghua Univ.
Tong, Wang	Donghua Univ.
16:00-18:00	WeDP3.4
<i>Controlling Chaos in Conservative Systems by the Modified Linear Feedback Method</i> , pp. 518-521.	
Hao, Jianhong	North Chia Electric Power Univ.
Fan, Jieqing	North China Electric Power Univ.
Duan, Ru	North China Electric Power Univ.
16:00-18:00	WeDP3.5
<i>Super-Twisting Sliding Mode Control Based on Lyapunov Analysis for the Cursing Flight of Hypersonic Vehicles</i> , pp. 522-527.	
Mu, Chaoxu	Tianjin Univ.
Sun, Changyin	Southeast Univ.
Qian, Chengshan	Southeast Univ.
Zhang, Ruimin	Southeast Univ.
16:00-18:00	WeDP3.6
<i>Blended Algorithm for Feedback Linearization of Single Input Control System</i> , pp. 528-533.	
Mehra, Rachit	VJTI, Mumbai
Chinde, Venkatesh	VJTI, Mumbai
Singh, Navdeep	Veermata Jijabai Tech. Inst.
Kazi, Faruk	Indian Inst. of Tech. Bombay

A Mode Switching Control Design for Fast Position Servo Systems with Permanent Magnet Synchronous Motor, pp. 556-561.

Cheng, Guoyang Fuzhou Univ.
Hu, Jingao Fuzhou Univ.

WeDP4	VIP Room
Control Applications II (Interactive Session)	
Chair: Cheng, Guoyang	Fuzhou Univ.
Co-Chair: Wei, Zhen	Rockwell Automation
16:00-18:00	WeDP4.1
<i>Online Virtual Experiment of Power Electrical Devices Based on XML and Modelica</i> , pp. 534-537.	
Shen, Zhangbiao	Zhejiang Univ.
Zhu, Shan'an	Zhejiang Univ.
16:00-18:00	WeDP4.2
<i>Server Structure Based on Netty Framework for Internet-Based Laboratory</i> , pp. 538-541.	
Zhang, Shouheng	Zhejiang Univ.
Zhu, Shan'an	Zhejiang Univ.
16:00-18:00	WeDP4.3
<i>An Introduction to One Component Level Control Technology - DeviceLogix</i> , pp. 542-546.	
Wei, Zhen	Rockwell Automation
Fabio, Malaspina	Rockwell Automation
16:00-18:00	WeDP4.4
<i>Capacitively Coupled Contactless Conductivity Detection Based on Phase-Sensitive Demodulation Principle</i> , pp. 547-550.	
Wang, Baoliang	Zhejiang Univ.
Chai, Majing	Zhejiang Univ.
Ji, Haifeng	Zhejiang Univ.
Huang, Zhiyao	Zhejiang Univ.
Li, Haiqing	Zhejiang Univ.
16:00-18:00	WeDP4.5
<i>B/S Implementation of Internet-Based Electrical Engineering Lab with MVC Architecture</i> , pp. 551-555.	
Zhang, Huan	Zhejiang Univ. of Electrical Engineering
Zhu, Shan'an	Zhejiang Univ.
16:00-18:00	WeDP4.6

Technical Program for Thursday June 13, 2013

ThA1	Rose
Signal Processing I (Regular Session)	
Chair: Huang, Biao	Univ. of Alberta
Co-Chair: Wang, Youyi	Nanyang Tech. Univ.
08:30-08:50	ThA1.1
<i>AMW-SMC: A Fast and Accurate Localization Method for Mobile Targets in Wireless Networks</i> , pp. 562-567.	
Mao, Ximeng	Shanghai Jiao Tong Univ.
Chen, Cailian	Shanghai Jiao Tong Univ.
Guan, Xinping	Shanghai Jiao Tong Univ.
08:50-09:10	ThA1.2
<i>Ellipsoidal Set Based Robust Particle Filtering for Recursive Bayesian State Estimation</i> , pp. 568-573.	
Shao, Xinguang	Syncrude Canada Ltd.
Zhao, Zhonggai	Jiangnan Univ.
Liu, Fei	Jiangnan Univ.
Huang, Biao	Univ. of Alberta
09:10-09:30	ThA1.3
<i>A Novel Hypothesis Splitting Method Implementation for Multi-Hypothesis Filters</i> , pp. 574-579.	
Bayramoglu, Enis	Tech. Univ. of Denmark
Ravn, Ole	Tech. Univ. of Denmark
Andersen, Nils A.	Tech. Univ. of Denmark
09:30-09:50	ThA1.4
<i>Li-Ion Battery SOC Estimation Using Particle Filter Based on an Equivalent Circuit Model</i> , pp. 580-585.	
Du, Jiani	Nanyang Tech. Univ.
Wang, Youyi	Nanyang Tech. Univ.
Wen, Changyun	Nanyang Tech. Univ.
09:50-10:10	ThA1.5
<i>Expectation Maximization Approach to Gross Error and Change Point Detection</i> , pp. 586-591.	
Keshavarz, Marziyeh	Univ. of Alberta
Huang, Biao	Univ. of Alberta
ThA2	Magnolia
Control Systems for Hybrid Electric Vehicles (Regular Session)	
Chair: Tang, K.Z.	National Univ. of Singapore
Co-Chair: Khodabakhshian, Mohammad	KTH Royal Inst. of Tech.
08:30-08:50	ThA2.1
<i>Model-Based Starting Transient Speed Control Scheme for Automotive Engines</i> , pp. 592-597.	
Zhang, Jiangyan	Dalian Nationalities Univ.
Shen, Tielong	Sophia Univ.
Kako, Junichi	Toyota Motor Corp.
Xu, Guokai	Dalian Nationalities Univ.
08:50-09:10	ThA2.2
<i>Improving Fuel Economy and Robustness of an Improved ECMS Method</i> , pp. 598-603.	
Khodabakhshian, Mohammad	KTH Royal Inst. of Tech.
Feng, Lei	KTH Royal Inst. of Tech.
Wikander, Jan	KTH Royal Inst. of Tech.
09:10-09:30	ThA2.3
<i>Fuzzy Model Predictive Control of a Permanent Magnet Synchronous Motor in Electric Vehicles</i> , pp. 604-608.	

Liu, Zhitao	Zhejiang Univ.
Wang, Youyi	Nanyang Tech. Univ.
Du, Jiani	Nanyang Tech. Univ.
09:30-09:50	ThA2.4
<i>Development of a Remote Telemetry and Diagnostic System for Electric Vehicles and Electric Vehicle Supply Equipment</i> , pp. 609-613.	
Tang, K.Z.	National Univ. of Singapore
Tang, Shona	NUS
Kusumadi, N.P.	NUS
Seah, Eugene	NUS

09:50-10:10	ThA2.5
<i>Research on the Battery Power Model for the Power Distribution of Parallel-Series Hybrid Power System</i> , pp. 614-618.	
Wang, Weida	Beijing Inst. of Tech.

ThA3	Plum Blossom
Applications in Mobile Robots and Sensors (Invited Session)	
Chair: Lum, Kai-Yew	National Chi Nan Univ.
Co-Chair: Kuo, Yaw-Wen	National Chi Nan Univ.
Organizer: Kuo, Yaw-Wen	National Chi Nan Univ.
Organizer: Wu, Gin-Der	National Chi Nan Univ.
Organizer: Xu, Cai-Lin	National Chi Nan Univ.
Organizer: Lum, Kai-Yew	National Chi Nan Univ.

08:30-08:50	ThA3.1
<i>Chip Design of Fuzzy Neural Networks for Face Recognition in Mobile-Robots (I)</i> , pp. 619-622.	
Wu, Gin-Der	National Chi Nan Univ.
Zhu, Zhen-Wei	National Chi Nan Univ.

08:50-09:10	ThA3.2
<i>Wireless Navigation System for a Self-Propelled Car with a Rotational Directional Antenna (I)</i> , pp. 623-627.	
Kuo, Yaw-Wen	National Chi Nan Univ.
Shr, Hong-Kai	National Chi Nan Univ.
Wu, Meng-Shu	National Chi Nan Univ.

09:10-09:30	ThA3.3
<i>Investigation of the Rao-Blackwellized Particle Filter for Two Jump-Markov Inertia Measurement Models (I)</i> , pp. 628-633.	
Xu, Cai-Lin	National Chi Nan Univ.
Lum, Kai-Yew	National Chi Nan Univ.
Kuo, Yaw-Wen	National Chi Nan Univ.

09:30-09:50	ThA3.4
<i>Design and Control of a Two-Wheel Self-Balancing Robot Using the Arduino Microcontroller Board (I)</i> , pp. 634-639.	
Lum, Kai-Yew	National Chi Nan Univ.
Juang, Hau-Shiue	National Chi Nan Univ.

09:50-10:10	ThA3.5
<i>A Customized FastSLAM Algorithm Using Scanning Laser Range Finder in Structured Indoor Environments (I)</i> , pp. 640-645.	
Hon, Bo Xuan	Department of Aeronautics, Imperial Coll.
Tian, Hongyu	National Univ. of Singapore
Wang, Fei	National Univ. of Singapore
Chen, Ben M.	National Univ. of Singapore
Lee, Tong Heng	National Univ. of Singapore

ThA4	Narcissus
Recent Advances in Predictive Control and Optimization (Invited Session)	
Chair: Li, Ning	Shanghai Jiao Tong Univ.
Co-Chair: Yang, Yue	National Univ. of Singapore
Organizer: Li, Ning	Shanghai Jiao Tong Univ.
Organizer: Li, Dewei	Shanghai Jiao Tong Univ.
08:30-08:50	ThA4.1
<i>Robust Identification of Piecewise Affine Systems from Noisy Data (I)</i> , pp. 646-651.	
Yang, Yue	National Univ. of Singapore
Xiang, Cheng	National Univ. of Singapore
Lee, Tong Heng	National Univ. of Singapore
08:50-09:10	ThA4.2
<i>Output Feedback Predictive Control for LPV Systems Based on Dynamic Programming Algorithm (I)</i> , N/A	
Zhao, Min	Univ. of Shanghai for Science and Tech.
Tang, Ping	university of shanghai for science and Tech.
09:10-09:30	ThA4.3
<i>Research on Goods Picking-Up Problem Inmixedwarehouse Based on Multiple Scheduling Strategy (I)</i> , pp. 658-663.	
Lin, Zhaoqi	Shanghai Jiao Tong Univ.
Li, Dewei	Shanghai Jiao Tong Univ.
Xi, Yugeng	Shanghai Jiao Tong Univ.
09:30-09:50	ThA4.4
<i>Distributed Model Predictive Control Based on Neighbourhood Optimization for High Speed Train (I)</i> , pp. 664-669.	
Wei, Yongsong	Shanghai jiaotong Univ.
Wu, Jing	Shanghai Jiao Tong Univ.
Li, Shaoyuan	Shanghai Jiao Tong Univ.
Li, Ning	Shanghai Jiao Tong Univ.
09:50-10:10	ThA4.5
<i>Reference Tracking Control of Hypersonic Vehicles Using Switched Linear Parameter-Varying Approach (I)</i> , pp. 670-675.	
Lu, Qiugang	Univ. of Agder
Zhang, Lixian	Harbin Inst. of Tech. China
Shi, Peng	School of Tech.
Karimi, Hamid Reza	Univ. of Agder
ThAP1	VIP Room
Optimal Control (Interactive Session)	
Chair: Xiao, Nan	Singapore-MIT Alliance for Res. and Tech. Centre
Co-Chair: An, Aimin	Lanzhou Univ. of Tech.
08:30-10:10	ThAP1.1
<i>Stair-Like Generalized Predictive Control for Improving the Output Power of Proton Exchange Membrane Fuel Cell System</i> , pp. 676-680.	
Zhang, Haochen	Lanzhou Univ. of Tech.
Hao, Xiaohong	Lanzhou Univ. of Tech.
An, Aimin	Lanzhou Univ. of Tech.
Liu, Xin	Lanzhou Univ. of Tech.
Chen, Liwen	Lanzhou Univ. of Tech.
08:30-10:10	ThAP1.2
<i>An Extended Model Predictive Control Approach to Coordinated Ramp Metering</i> , pp. 681-686.	

Hu, Linglong	Zhejiang Univ.
Sun, Weili	Zhejiang Univ.
Wang, Hui	zhejiang Univ.
08:30-10:10	ThAP1.3
<i>Evolutionary Group Theoretic Tabu Search Approach to Task Allocation of Autonomous Unmanned Aerial Vehicles</i> , pp. 687-692.	
Yan, Pin	Naval Univ. of Engineering
Tan, Bo	Naval Univ. of Engineering, Wuhan
08:30-10:10	ThAP1.4
<i>A Novel Probabilistic Approximate Subgradient Method in Lagrangian Relaxation for Flow-Shop Scheduling Problems</i> , pp. 693-698.	
Shi, Lei	Tsinghua Univ.
Jiang, Yongheng	Dept. of Automation, Tsinghua Univ.
Huang, Dexian	Tsinghua Univ.
08:30-10:10	ThAP1.5
<i>Structure Based Model Reduction in Real-Time Optimization</i> , pp. 699-704.	
Feng, Hao	Zhejiang Univ.
Chen, Xi	Zhejiang Univ.
Shao, Zhijiang	Zhejiang Univ.
08:30-10:10	ThAP1.6
<i>Optimizing and Scheduling of Super Large-Scale Seawater Reverse Osmosis Desalination System</i> , pp. 705-711.	
Ding, Qiang	Hangzhou Dianzi Univ.
Niu, Zhiyuan	Hangzhou Dianzi Univ.
08:30-10:10	ThAP1.7
<i>Advanced Starting Point Strategy for Solving Parametric DAE Optimization Problems</i> , pp. 712-717.	
Wang, Zhiqiang	Hebei Acad. of Sciences
Jiaona, Wan	Res. Inst. of Highway Ministry Transport
Shao, Zhijiang	Zhejiang Univ.
ThAP2	VIP Room
Autonomous Unmanned Systems I (Interactive Session)	
Chair: Yin, Hang	Tsinghua Univ.
Co-Chair: Liu, Zhen	Inst. of Automation Chinese Acad. of Sciences
08:30-10:10	ThAP2.1
<i>Design of Blended Control Strategy for Autonomous Aircrafts with Multiple Actuators</i> , pp. 718-723.	
Liu, Zhen	Chinese Acad. of Sciences
Yuan, Ruyi	Chinese Acad. of Sciences
Fan, Guoliang	Chinese Acad. of Sciences
Yi, Jianqiang	Chinese Acad. of Sciences
Qian, Hanbo	the Center of Coordination & Support of SASTIND
08:30-10:10	ThAP2.2
<i>System Identification of Large Flexible Appendage on Satellite for Autonomous Control</i> , pp. 724-728.	
Li, Wenbo	Beijing Inst. of Control Engineering
Wang, Dayi	Beijing Inst. of Control Engineering
Liu, Chengrui	Beijing Inst. of Control Engineering
08:30-10:10	ThAP2.3
<i>The Fault Tolerant GNC System Architecture for Space Station Spacecrafts</i> , pp. 729-734.	
Gao, Yanan	Beijing Inst. of Control Engineering
Lin, Yue	BICE, Beijing

Fan, Songtao	BICE
Feng, Shuai	BICE

08:30-10:10 ThAP2.4

Robust Hover Control of Thrust-Vectored Unmanned Tail-Sitter Aircraft against Gust Load, pp. 735-738.

Yin, Hang	Tsinghua Univ.
Jihong, Jihong	Tsinghua Univ.
Chao, Zhang	Tsinghua Univ.
Xiaming, Yuan	Tsinghua Univ.

08:30-10:10 ThAP2.5

Design of a Laser Navigation System for Substation Inspection Robot, pp. 739-743.

Xiao, Peng	Shandong Electric Power Res. Inst.
Guo, Rui	Shandong Electric Power Res. Inst.
Luan, Yiqing	Shandong Electric Power Res. Inst.
Wang, Haipeng	Shandong Electric Power Res. Inst.
Li, Li	Shandong Electric Power Res. Inst.
Zhang, Feng	Shandong Electric Power Res. Inst.
Pang, Dongzhe	North China Electric Power Univ.

08:30-10:10 ThAP2.6

Adaptive Longitudinal Motion Control with Command-Filtered Compensation for High-Speed Underwater Supercavitating Vehicles, pp. 744-749.

Xu, Dezhi	Univ. of Aeronautics and Astronautics
Jiang, Bin	NUAA
Qi, Ruiyun	Nanjing Univ. of Aeronautics and Astronautics
Qian, Moshu	Univ. of Aeronautics and Astronautics

ThAP3 VIP Room
Sensor Networks and Networked Control II (Interactive Session)

Chair: Dai, Yaping	Beijing Inst. of Tech.
Co-Chair: Zhao, Shiyu	National Univ. of Singapore

08:30-10:10 ThAP3.1

Fault-Tolerant Control of Networked Control Systems with Time-Varying Delay, pp. 750-754.

Liu, Xiuzhi	Beijing Inst. of Tech.
Dai, Yaping	Beijing Inst. of Tech.

08:30-10:10 ThAP3.2

A Clustering Algorithm Based on Local Competition and Double-Weigh Communication-Energy-Consumption for Wireless Sensor Networks, pp. 755-759.

Liu, Qingwei	East China Univ. of Science and Tech.
Li, Jin	East China Univ. of Science and Tech.
Liu, Mandan	East China Univ. of Science and Tech.

08:30-10:10 ThAP3.3

A Multi-Channel Allocation Method for Clustered Wireless Sensor Networks, pp. 760-765.

Cao, Jianfu	Xi'an Jiaotong Univ.
Wang, Zhiwei	Xi'an Jiaotong Univ.
Sun, Dongxu, Dongxu	Xi'an Jiaotong Univ.
Zheng, Jiguang, Jiguang	Xi'an Jiaotong Univ.
Jin, Feng, Feng	Xi'an Jiaotong Univ.

08:30-10:10 ThAP3.4

Cooperative Sampling Scheme of Wireless Sensor Networks

for Accurate Signal Estimation, N/A

Li, Xun	national Univ. of defense Tech.
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08:30-10:10 ThAP3.5

Multi-Sensor Multi-OOSM Distributed Sequential Fusion Filtering, pp. 772-776.

Feng, Xiaoliang	Hohai Univ.
Wen, Chenglin	Hangzhou Dianzi Univ.
Xu, Lizhong	Hohai Univ.

08:30-10:10 ThAP3.6

Adaptive Synchronization-Based Approach for Real-Time Identification of Coupling Delays or Node Delays in Dynamical Complex Networks, pp. 777-782.

Wu, Xiaoming	Shandong Computer Science Center
Sun, Zhiyong	Shandong Provincial Key Lab. of Computer Network, Shandong
Liang, Feng	computer center of shandong province
Yu, Changbin	Australian National Univ.

ThAP4 VIP Room
Process Control & Instrumentation II (Interactive Session)

Chair: Du, Wenli	East China Univ. of Science and Tech.
Co-Chair: Xiang, Leijun	Huaqiao Univ.

08:30-10:10 ThAP4.1

The Design PID Controller for Continuous Steel Casting Using Adaptive Steady-State Particle Swarm Optimization, pp. 783-788.

Wang, Shichun	Taizhou Vocational &Tech. Coll. Univ.
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08:30-10:10 ThAP4.2

Process Monitoring with Global Probability Boundary-Based on Gaussian Mixture Model, pp. 789-793.

Wu, Qun	East China Univ. of Science and Tech.
Du, Wenli	East China Univ. of Science and Tech.
Qian, Feng	East China Univ. of Sci. and Tech.
Ma, Qingsong	China Huanqiu Contracting & Engineering Corp.

08:30-10:10 ThAP4.3

A New Measurement and Calibration Method of the Synchronization Sampling Error of Sensor Array, pp. 794-798.

Jiang, Jiajia	Tianjin Univ.
Duan, Fajie	TianJin Univ.
Chen, Jin	TianJin Univ.
Hua, Xiangning	TianJin Univ.
Li, Yanchao	TianJin Univ.

08:30-10:10 ThAP4.4

Novel IMC-PID Controller Design and Parameter Tuning with Improving Control Performance for the SOPTD Processes, pp. 799-803.

Xiang, Leijun	Huaqiao Univ.
Dai, Yinyin	Huaqiao Univ.
Lu, Xiaofen	Huaqiao Univ.

08:30-10:10 ThAP4.5

An Intelligent Temperature Switching Control for Cement Raw Meal Calcination Process, pp. 804-809.

Qiao, Jinghui	Dandong Top Electronics Inst. Ltd
Zhang, Handi	Dandong Top Electronics Inst. Ltd
Chai, Tianyou	Northeastern Univ.

08:30-10:10 ThAP4.6

Adaptive Weighted Relevant Sample Selection of

Just-In-Time Learning Soft Sensor for Chemical Processes, pp. 810-815.

Chen, Kun Shaoxing Univ.
Liu, Yi Zhejiang Univ. of Tech.

ThB1 Rose
Hybrid and Multi-Agent Systems I (Regular Session)

Chair: Markovski, Jasen Eindhoven Univ. of Tech.
Co-Chair: Zhao, Shiyu National Univ. of Singapore

10:30-10:50 ThB1.1

Process-Theoretic Supervisor Synthesis Framework with Data, pp. 816-821.

Markovski, Jasen Eindhoven Univ. of Tech.

10:50-11:10 ThB1.2

Decentralized Model Predictive Control with Asymptotically Positive Realness, pp. 822-827.

Tuan, Hoang Univ. of Tech. Sydney
Savkin, Andrey V. Univ. of New South Wales
Nguyen, Tuan Nghia Univ. of Tech. Sydney, Australia
Nguyen, Hung T. Univ. of Tech. Sydney

11:10-11:30 ThB1.3

Mission Planning of Autonomous UAVs for Urban Surveillance with Evolutionary Algorithms, pp. 828-833.

Geng, Lin National Univ. of Singapore
Zhang, Yunfeng National Univ. of Singapore
Wang, Jingjing National Univ. of Singapore
Fuh, Jerry Ying Hsi National Univ. of Singapore
Teo, S H DSO National Lab.

11:30-11:50 ThB1.4

Distributed Formation Control with Pose Estimation in Multi-Robot Systems, pp. 834-839.

Ni, Liping Zhejiang Univ.
Cao, Xanghui Zhejiang Univ.
Cheng, Peng Zhejiang Univ.
Chen, Jiming Zhejiang Univ.
Sun, Youxian Zhejiang Univ.

11:50-12:10 ThB1.5

Finite-Time Stabilization of Circular Formations Using Bearing-Only Measurements, pp. 840-845.

Zhao, Shiyu NUS
Lin, Feng National Univ. of Singapore
Peng, Kemao National Univ. of Singapore
Chen, Ben M. National Univ. of Singapore
Lee, Tong Heng National Univ. of Singapore

12:10-12:30 ThB1.6

Formation Tracking Control of Nonholonomic Chained Form Systems, pp. 846-851.

Cao, Kecai Nanjing Univ. of Posts and Telecommunications
Yang, Hao Nanjing Univ. of Aeronautics and Astronautics
Jiang, Bin NUAU

ThB2 Magnolia
Advances in Intelligent and Learning Control (Invited Session)

Chair: Wang, Ning Dalian Maritime Univ.
Co-Chair: Wang, Qing-Guo National Univ. of Singapore
Organizer: Pang, Chee National Univ. of Singapore
Khang

10:30-10:50 ThB2.1

A Systematic Method to Guide the Choice of Ridge Parameter in Ridge Extreme Learning Machine (I), pp. 852-857.

Er, Meng Joo Nanyang Tech. Univ.
Shao, Zhifei Nanyang Tech. Univ.
Wang, Ning Dalian Maritime Univ.

10:50-11:10 ThB2.2

Finite-Time Stabilization of a Class for Nonlinear Systems with Dynamic Feedback Subject to Input Saturation (I), pp. 858-863.

Zhang, Hengjun Univ. of Shanghai for Science and Tech.
Wang, Chaoli Univ. of Shanghai for Sci. & Tech.
Chen, Hua Hohai Univ. Changzhou Campus

11:10-11:30 ThB2.3

Distributed Multi-Robot Evacuation Incorporating Human Behavior (I), pp. 864-869.

Zhang, Shubo Stevens Inst. of Tech.
Guo, Yi Stevens Inst. of Tech.

11:30-11:50 ThB2.4

Efficient, Swarm-Based Path Finding in Unknown Graphs Using Reinforcement Learning (I), pp. 870-877.

Aurangzeb, Muhammad Univ. of Texas at Arlington
Lewis, Frank L. Univ. of Texas at Arlington
Huber, Manfred The Univ. of Texas at Arlington

11:50-12:10 ThB2.5

Improved System Identification with Renormalization Group (I), pp. 878-883.

Wang, Qing-Guo National Univ. of Singapore
Yu, Chao National Univ. of Singapore
Zhang, Yong Qiming Venture Partners

12:10-12:30 ThB2.6

Model Assessment with Renormalization Group in Statistical Learning (I), pp. 884-889.

Wang, Qing-Guo National Univ. of Singapore
Yu, Chao National Univ. of Singapore
Zhang, Yong Qiming Venture Partners

ThB3 Plum Blossom
Aerospace Systems and Control I (Invited Session)

Chair: Wu, Zhigang Dalian Univ. of Tech.
Co-Chair: Liu, Lei Dalian Univ. of Tech.
Organizer: Liu, Lei Dalian Univ. of Tech.
Organizer: Wu, Shunan Dalian Univ. of Tech.

10:30-10:50 ThB3.1

Active Vibration Suppression and Precision Pointing Control of Piezo-Based Platforms and Their Applications to Flexible Spacecrafts (I), pp. 890-895.

Liu, Lei Dalian Univ. of Tech.
Wu, Guoqiang Dalian Univ. of Tech.

10:50-11:10 ThB3.2

Predictive Control of Teleoperation Rendezvous and Docking with Large Time Delay (I), pp. 896-901.

Zhang, Bo National Univ. of Defense Tech.
Tang, Guojin National Univ. of Defense Tech.
Li, Haiyang National Univ. of Defence Tech.
Luo, Yazhong National Univ. of Defense Tech.

11:10-11:30 ThB3.3

Adaptive Control for Missile Formation Keeping under Leader Information Unavailability (I), pp. 902-907.

Wei, Changzhu	Harbin Inst. of Tech.
Guo, Jifeng	Harbin Inst. of Tech.
Lu, Baogang	Harbin Inst. of Tech.
Shen, Yi	Harbin Inst. of Tech.
Zhang, Libin	Beijing Inst. of system engineering

11:30-11:50 ThB3.4

Federal Adaptive Filtering of Restraining Consecutive Outliers Algorithm in Multi-Source Information Integrated Navigation System (I), pp. 908-912.

Hua, Bing	Nanjing Univ. of Aeronautics & Astronautics
Chen, Weidong	Nanjing Univ. of Aeronautics & Astronautics
Kang, Guohua	Nanjing Univ. of Aeronautics & Astronautics
Yang, Jing	Nanjing Univ. of Aeronautics & Astronautics
Wu, Fengxi	Nanjing Univ. of Aeronautics & Astronautics

11:50-12:10 ThB3.5

Quaternion-Based Adaptive Terminal Sliding Mode Control for Spacecraft Attitude Tracking (I), pp. 913-917.

Wu, Shunan	Dalian Univ. of Tech.
Wu, Guoqiang	Dalian Univ. of Tech.
Tan, Shujun	Dalian Univ. of Tech.
Wu, Zhigang	Dalian Univ. of Tech.

12:10-12:30 ThB3.6

Study on Strongly Odd Nonlinear Oscillations by Means of the Homotopy Analysis Method (I), pp. 918-922.

Wen, Jianmin	Harbin Inst. of Tech.
You, Bindi	Harbin Inst. of Tech. Weihai

ThB4 Narcissus
Systems Biology and Medical Engineering I (Invited Session)

Chair: Qin, Kai-Rong	Dalian Univ. of Tech.
Co-Chair: Ye, Shangjun	Zhejiang Univ.
Organizer: Qin, Kai-Rong	Dalian Univ. of Tech.
Organizer: Xiang, Cheng	National Univ. of Singapore

10:30-10:50 ThB4.1

Numerical Simulation of the Hydrodynamics of Endothelial Glycocalyx under Shear Flow (I), pp. 923-928.

Ye, Shangjun	Zhejiang Univ.
Wang, Wen	Queen Mary, Univ. of London
Shao, Xueming	Zhejiang Univ.

10:50-11:10 ThB4.2

A Hemodynamic Model Describing the Regulation of Tissue Fluid and Its Application in Kidney QDS (I), pp. 929-933.

Yao, Wei	Fudan Univ.
Yang, Hongwei	Fudan Univ.
Ding, Guanghong	Fudan Univ.

11:10-11:30 ThB4.3

Dynamics of the Arterial Wall under Blood Pressure (I), pp. 934-937.

Ren, Jiu-Sheng	Shanghai Univ.
Xu, Shen-Xin	Shanghai Univ.

11:30-11:50 ThB4.4

The Modeling of the OSAHS Animal Model with Rats and Airflow Characteristics Simulation of the Upper Airway (I), pp. 938-942.

Yang, Zha	Inst. of Applied Mathematics and Mechanics
Liu, Yongyi	the 4th Affiliated hospital of Jiangsu Univ.
Lu, Zhiming	Inst. of Applied Mathematics and Mechanics
Gao, Lu	Jiangsu Univ.
Huang, Yuanbo	the 4th Affiliated hospital of Jiangsu Univ.

He, Hailin	the Hospital of Dantu District.
Zong, Jing	the Affiliated Hospital of Jiansu Univ.

11:50-12:10 ThB4.5

Significance of MMP9 and BRMS1 in Metastasis and Invasion of Breast Cancer Stem Cells (I), pp. 943-946.

Wang, Li-Xia	the second hospital of Dalian medical Univ.
Mou, Qiuju	Dalian Medical Univ.
Mao, Jun	Dalian medical Univ.
Tang, Liyun	the second hospital of Dalian medical Univ.
Tao, Yajun	Dalian Univ.
Li, Lianhong	Dalian Medical Univ.

12:10-12:30 ThB4.6

Exercise Controls Arterial Stiffness Via Hemodynamic Modulation (I), pp. 947-951.

Hou, Jie	Dalian Univ. of Tech.
Xiang, Cheng	National Univ. of Singapore
Qin, Kai-Rong	Dalian Univ. of Tech.

ThBP1 VIP Room
Signal Processing II (Interactive Session)

Chair: Ramesh, Bharath	National Univ. of Singapore
Co-Chair: Chai, Li	Wuhan Univ. of Science and Tech.

10:30-12:30 ThBP1.1

System Design for Monitoring Infant Speech Emotion, pp. 952-955.

Zhong, Lin	South China Univ. of Tech.
Li, Yanxiong	South China Univ. of Tech.
Wei, Xin	South China Univ. of Tech.
Li, Guanglong	South China Univ. of Tech.
Wang, Zili	South China Univ. of Tech.
Jiang, Yewen	South China Univ. of Tech.

10:30-12:30 ThBP1.2

An UKF Target Tracking Method with Effective Suppression of Angular Glint, pp. 956-960.

Guodong, Zhang	Naval Univ. of Engineering
Chonglun, Li	Naval Univ. of Engineering

10:30-12:30 ThBP1.3

Modification of Advanced Boundary Discriminative Noise Detection Algorithm, pp. 961-966.

Huang, Yanwei	Fuzhou Univ.
Qi, Binglu	Fuzhou Univ.
Chen, Shaobin	Fuzhou Univ.

10:30-12:30 ThBP1.4

Frame Bound Computation of Two-Dimensional Filter Bank Frames, pp. 967-971.

Pan, Yu	Wuhan Univ. of Science and Tech.
Chai, Li	Wuhan Univ. of Science and Tech.
Sheng, Yuxia	Wuhan Univ. of Science and Tech.

10:30-12:30 ThBP1.5

An Echo Signal Processing Method without Reference Curve for Guided Wave Radar Level Gauge, pp. 972-977.

Wei, Meng	Hefei Univ. of Tech.
Xu, Ke-Jun	Hefei Univ. of Tech.
Ma, Yuan	Hefei Univ. of Tech.

10:30-12:30 ThBP1.6

A Maximum Entropy Based Nonlinear Blind Source Separation Approach Using a Two-Layer Perceptron Network, pp. 978-982.

Li, Wei	Jiangnan Univ.
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Yang, Huizhong	Jiangnan Univ.
10:30-12:30	ThBP1.7
<i>Mass Message Transmission Aware Buffer-Less Packet-Circuit Switching Router for 3D NoC</i> , pp. 983-986.	
Yu, Xiao	Nanjing Univ.
Li, Li	Nanjing Univ.
Zhang, Yuang	Nanjing Univ.
Pan, Hongbing	Nanjing Univ.
He, Shuzhuan	Nanjing Univ.
10:30-12:30	ThBP1.8
<i>Performance Evaluation of Packed Tower Liquid Desiccant Dehumidifier Based on LSSVM</i> , pp. 987-990.	
Wang, Xinli	Zhejiang Univ.
Lu, Jiangang	Zhejiang Univ.
Yang, Qinmin	Zhejiang Univ.
Cai, Wen-Jian	Nanyang Tech. Univ.
Sun, Youxian	Zhejiang Univ.
10:30-12:30	ThBP1.9
<i>A Soft-Sensor for Estimating Copper Quality by Image Analysis Technology</i> , pp. 991-996.	
Yuan, Xiaofeng	Zhejiang Univ.
Zhang, Hongwei	Zhejiang Univ.
Song, Zhihuan	Zhejiang Univ.
10:30-12:30	ThBP1.10
<i>Antenna Pointing Error Estimation Using Conical Scan Technique and Kalman Filter</i> , N/A	
Gama de Souza, Andre Luiz	Univ. of Brasilia
Borges, Geovany Araújo	Univ. of Brasília
Ishihara, João Yoshiyuki	Univ. of Brasília
Ferreira, Henrique Cezar	Univ. of Brasilia
Borges, Renato Alves	Univ. of Brasília
Kulabukhov, Anatoliy	Dnepropetrovsk National Univ.
Belikov, Vladimir	Dnepropetrovsk National Univ.
Larin, Vladimir	Dnepropetrovsk National Univ.
ThBP2	VIP Room
Time-Varying Systems (Interactive Session)	
Chair: Cheng, Jun	UESTC
Co-Chair: Hua, Changchun	Yanshan Univ.
10:30-12:30	ThBP2.1
<i>New Delay-Dependent Stability Criteria for Neutral Systems with Time-Varying Delay Using Delay-Decomposition Approach</i> , pp. 1003-1008.	
Ge, Chao	Yanshan Univ.
Hua, Changchun	Yanshan Univ.
Guan, Xinping	Shanghai Jiao Tong Univ.
10:30-12:30	ThBP2.2
<i>Model Reference Tracking Control for Discrete Stochastic Bilinear Systems with Time-Varying Delays</i> , pp. 1009-1014.	
Zhang, Baoyong	Nanjing Univ. of Science and Tech.
Li, Yongmin	Huzhou Normal Coll.
10:30-12:30	ThBP2.3
<i>Controllability of Nonlocal Boundary Conditions for Impulsive Differential Systems of Mixed Type in Banach Spaces</i> , pp. 1015-1019.	
Qin, Haiyong	China Univ. of Petroleum
Zuo, Xin	China Univ. of Petroleum
10:30-12:30	ThBP2.4

<i>H_infty Filtering of Discrete-Time Switched Systems with Average Dwell Time under Asynchronous Switching</i> , pp. 1020-1023.	
Cheng, Jun	UESTC
Zhu, Hong	UESTC
Zhong, Shouming	UESTC
Zhang, Yuping	UESTC
Zeng, Yong	UESTC
10:30-12:30	ThBP2.5
<i>Study on Time-Varying Force Tracking for Automatic Cell Manipulation</i> , pp. 1024-1029.	
Xu, Wenkang	Nanjing Univ. of Science and Tech.
Cai, Chenxiao	Nanjing Univ. of Science and Tech.
Zou, Yun	Nanjing Univ. of Science and Tech.
Yin, Minghui	Nanjing Univ. of Science and Tech.
10:30-12:30	ThBP2.6
<i>Invariant Delay Estimates for Systems with Periodically-Varying Delay</i> , pp. 1030-1035.	
Tan, Ai Hui	Multimedia Univ.
10:30-12:30	ThBP2.7
<i>A Note on Global Robust Output Regulation for Time-Varying Output-Feedback Systems</i> , pp. 1036-1041.	
Yang, Xi	Zhejiang Univ. of Tech.
Wang, Xinghu	Univ. of Science and Tech. of China

ThBP3	VIP Room
Robust Control (Interactive Session)	
Chair: Wang, Fei	National Univ. of Singapore
Co-Chair: Dong, Xin-zhuang	Qingdao Univ.
10:30-12:30	ThBP3.1
<i>Robust H_2/H_∞ Control for Discrete-Time Systems with Markovian Jumps and Multiplicative Noise: Infinite Horizon Case</i> , pp. 1042-1047.	
Hou, Ting	Shandong Univ. of Sci. and Tech.
Zhang, Weihai	Shandong Univ. of Sci. and Tech.
Ma, Hongji	Shandong Univ. of Sci. and Tech.
10:30-12:30	ThBP3.2
<i>Robust Control for a Class of 2-D Discrete Uncertain Delayed Systems</i> , pp. 1048-1052.	
Ye, Shuxia	Jiangsu Univ. of science and Tech.
Li, Jianzhen	Jiangsu Univ. of Science and Tech.
10:30-12:30	ThBP3.3
<i>Robust Fault-Tolerant Control for Uncertain Time-Delay Systems with Nonlinear Term</i> , pp. 1053-1058.	
Hu, Ling_yan	Dalian Univ.
10:30-12:30	ThBP3.4
<i>Robust Admissibility Analysis and Synthesis of Uncertain Singular Systems Via Delta Operator Approach</i> , pp. 1059-1064.	
Dong, Xin-zhuang	Qingdao Univ.
Tian, Wan-hu	Qingdao Univ.
Mao, Qing-tang	Qingdao Univ.
Wang, Dongqing	Qingdao Univ.
ThBP4	VIP Room
Control Applications III (Interactive Session)	
Chair: Chen, Pao-Lung	National Kaohsiung First Univ. of

	Science and Tech.
Co-Chair: He, Guang	National Univ. of Defense Tech.
10:30-12:30	ThBP4.1
<i>A Jumping Algorithm for Calibration in Multiphase Delay Locked Loop</i> , pp. 1065-1069.	
Chen, Pao-Lung	National Kaohsiung First Univ. of Science and Tech.
10:30-12:30	ThBP4.2
<i>Interactions Analysis in the Maglev Bogie with Decentralized Controllers Using an Effective Relative Gain Array Measure</i> , pp. 1070-1075.	
He, Guang	National Univ. of Defense Tech.
Li, Jie	National Univ. of Defense Tech.
Li, Yun	National Univ. of Defense Tech.
Cui, Peng	National Univ. of Defense Tech.
10:30-12:30	ThBP4.3
<i>Amplitude Control of the Track-Induced Self-Excited Vibration in a Maglev System</i> , pp. 1076-1081.	
Zhou, Danfeng	National Univ. of Defense Tech.
Li, Jie	National Univ. of Defense Tech.
Zhang, Kun	National Univ. of Defense Tech.
10:30-12:30	ThBP4.4
<i>Sliding Mode Variable Structure-Based Multi-Shaft Synchronous Control Method and Its Application in Printing Press</i> , pp. 1082-1086.	
Zhang, Changfan	Hunan Univ. of Tech.
Wen, Long	Hunan Univ. of Tech.
Xiao, Yuanyuan	Hunan Univ. of Tech.
He, Jing	National Univ. of Defense Tech.
10:30-12:30	ThBP4.5
<i>Pedestrian Evacuation in Two-Dimension Via Robust Feedback Control</i> , pp. 1087-1091.	
Yang, Xiaoxia	Beijing Jiaotong Univ.
Dong, Hairong	Beijing Jiaotong Univ.
Chen, Yao	Acad. of Mathematics and Systems Science, Chinese Acad. of S
Wang, Qianling	Beijing Jiaotong Univ.
10:30-12:30	ThBP4.6
<i>A New Hybrid Mode Control Strategy of Flyback Inverter for Photovoltaic AC Modules</i> , pp. 1092-1097.	
Kou, Wei	North China Electric Power Univ.
Shi, Xinchun	North Electric Power Univ.
Wei, Debing	North China Electric Power Univ.
10:30-12:30	ThBP4.7
<i>Design and Evaluation of Triple Voting System Based Dual CPU (TVSDC)</i> , pp. 1098-1102.	
He, Weiting	Zhejiang Univ.
Wu, Jun	Zhejiang Medical Coll.
Zhang, Nan	Zhejiang Univ.
Huang, Wenjun	Zhejiang Univ.
ThBP5	VIP Room
Workshop on Robust and Nonlinear Control (Invited Session)	
Chair: Xie, Lihua	Nanyang Tech. Univ.
Co-Chair: Fu, Minyue	Univ. of Newcastle
Organizer: Xie, Lihua	Nanyang Tech. Univ.
Organizer: Fu, Minyue	Univ. of Newcastle
Organizer: Shi, Peng	School of Tech.
10:30-12:30	ThBP5.1

<i>Input Addition for the Controllability of Graph-Based Systems (I)</i> , pp. 1103-1108.	
Dion, Jean-Michel	CNRS
Commault, Christian.	GIPSA-Lab.
10:30-12:30	ThBP5.2
<i>Filter Design for Stochastically Perturbed T-S Fuzzy Systems (I)</i> , pp. 1109-1114.	
Su, Xiaojie	Harbin Inst. of Tech.
Shi, Peng	Univ. of Glamorgan
Wu, Ligang	Harbin Inst. of Tech.
Yang, Rongni	Univ. of Glamorgan, UK
10:30-12:30	ThBP5.3
<i>Track-Seeking Control of Four-Bar Structured HDD through IDA-PBC Based Switching Control (I)</i> , pp. 1115-1120.	
Guo, Yuqian	Central South Univ.
Xie, Lihua	Nanyang Tech. Univ.
Du, Chunling	Data Storage Inst.
Wang, Youyi	Nanyang Tech. Univ.
10:30-12:30	ThBP5.4
<i>Complete Stability of Linear Time-Delay Systems: A New Frequency-Sweeping Approach (I)</i> , pp. 1121-1126.	
Li, Xu-Guang	Northeastern Univ. China
Niculescu, Silviu-Iulian	UMR CNRS 8506, CNRS-SUPELEC
Cela, Arben	Groupe ESIEE
10:30-12:30	ThBP5.5
<i>Kalman Filtering with Intermittent Observations Using Measurements Coding (I)</i> , pp. 1127-1132.	
Sui, Tianju	Zhejiang Univ.
You, Keyou	Tsinghua Univ.
Fu, Minyue	Univ. of Newcastle
10:30-12:30	ThBP5.6
<i>The L1 Measure of Image Reconstruction Subject to Motion Corrupted K-Space Data (I)</i> , pp. 1133-1137.	
Zhang, Cishen	Swinburne Univ. of Tech.
Yang, Zai	NTU
Xie, Lihua	Nanyang Tech. Univ.
10:30-12:30	ThBP5.7
<i>Robust Admissibility and H_∞ Performance of Time-Varying Descriptor Systems (I)</i> , pp. 1138-1143.	
Barbosa, Karina A.	Univ. de Santiago de Chile
de Souza, Carlos E.	National Lab. for Scientific Computing (LNCC)
Coutinho, Daniel	Univ. Federal de Santa Catarina
ThC1	Rose
Hybrid and Multi-Agent Systems II (Regular Session)	
Chair: Wang, Lei	Beihang Univ.
Co-Chair: Wang, Chuanrui	Univ. of Sci. and Tech. of China
13:30-13:50	ThC1.1
<i>Adaptive Synchronization of Multi-Agent Systems with Unknown Nonlinear Dynamics</i> , pp. 1144-1149.	
Liu, Gaoyang	China Three Gorges Univ.
Yu, Hui	China Three Gorges Univ.
Xia, Xiaohua	Univ. of Pretoria
13:50-14:10	ThC1.2
<i>Quantized Consensus of First-Order Multi-Agent Systems under Directed Communication Topologies</i> , pp. 1150-1153.	
Li, Jianzhen	Jiangsu Univ. of Science and Tech.

Ye, Shuxia	Jiangsu Univ. of science and Tech.
14:10-14:30	ThC1.3
<i>Adaptive Containment Control of Coupled Linear Systems with Parameter Uncertainties</i> , pp. 1154-1159.	
Zhao, Yu	Peking Univ.
Wen, 32644	Southeast Univ.
Li, Zhongkui	Peking Univ.
Duan, Zhisheng	Peking Univ.
14:30-14:50	ThC1.4
<i>Leader Following Consensus for Multi-Agent Systems with Stochastic Packet Dropout</i> , pp. 1160-1165.	
Gong, Xiang	Dalhousie Univ.
Pan, Ya-Jun	Dalhousie Univ.
Li, JianNing	ZheJiang Univ.
Su, Hongye	State Key Lab. of Industrial Control Tech. Inst.
14:50-15:10	ThC1.5
<i>Leader-Following Consensus for an Integrator-Type Nonlinear Multi-Agent Systems Using Distributed Adaptive Protocol</i> , pp. 1166-1171.	
Wang, Chuanrui	Univ. of Science and Tech. of China
Wang, Xinghu	Univ. of Science and Tech. of China
Ji, Haibo	Univ. of Science and Tech. of China
15:10-15:30	ThC1.6
<i>Bounded Consensus in Multi-Agent Systems of Asymmetrically Coupled Nonidentical Agents</i> , pp. 1172-1177.	
Wang, Lei	Beihang Univ.
Yan, Song-lin	Beihang Univ.
Wang, Qing-Guo	National Univ. of Singapore
ThC2 Magnolia	
Fuzzy and Neural Systems I (Regular Session)	
Chair: Tang, Yu	National Univ. of Mexico
Co-Chair: Chen, Cheng-Lun	National Chung Hsing Univ.
13:30-13:50	ThC2.1
<i>Fuzzy Logic Surge Control in Variable Speed Axial Compressors</i> , pp. 1178-1183.	
Lin, Shu	Zhejiang Univ.
Yang, Chunjie	Zhejiang Univ.
Wu, Ping	Zhejiang Univ.
Song, Zhihuan	Zhejiang Univ.
13:50-14:10	ThC2.2
<i>Trajectory Tracking Control of a Mobile Robot by Computed Torque Method with On-Line Learning Neural Network</i> , pp. 1184-1189.	
Tran Thuan Hoang, Hoang	Vietnamese Inst. of Science and Tech. Hanoi
Nguyen Van Tinh, Tinh	Vietnamese Acad. of Science and Tech. Hanoi
14:10-14:30	ThC2.3
<i>Fuzzy Grey Sliding Mode Control for Maximum Power Point Tracking of Photovoltaic Systems</i> , pp. 1190-1195.	
Hong, Guo-Wei	National Chi Nan Univ.
Lum, Kai-Yew	National Chi Nan Univ.
Lin, Jung-Shan	National Chi Nan Univ.
14:30-14:50	ThC2.4
<i>Identification of First-Order Hammerstein Systems and Its Application to a Simple Neural Mass Model for Parkinson's Disease Treatment</i> , pp. 1196-1200.	
Jimenez Pantoja, Naybi Itzel	National Univ. of Mexico
Tang, Yu	National Univ. of Mexico

Gonzalez-Olvera, Marcos A.	Univ. Autónoma de la Ciudad de México
14:50-15:10	ThC2.5
<i>A Fuzzy-Neural System for Removal of the Color Cast for Digitally Captured Images under Unknown Illuminants</i> , pp. 1201-1206.	
Hung, Ho-Chia	National Chung Hsing Univ.
Chen, Cheng-Lun	National Chung Hsing Univ.
Yang, Cheng-Fu	National Chung Hsing Univ.
Shen, Jih-Rong	National Chung Hsing Univ.
15:10-15:30	ThC2.6
<i>Enhanced LMI Conditions for Quadratic Fuzzy Control Design</i> , pp. 1207-1212.	
Krokavec, Dusan	Tech. Univ. of Kosice
Filasova, Anna	Tech. Univ. of Kosice
ThC3 Plum Blossom	
Aerospace Systems and Control II (Invited Session)	
Chair: Wu, Zhigang	Dalian Univ. of Tech.
Co-Chair: Wu, Shunan	Dalian Univ. of Tech.
13:30-13:50	ThC3.1
<i>Pointing Control of Satellite Antenna Considering Dynamic Error of Flexible-Joint (I)</i> , pp. 1213-1217.	
You, Bindi	Harbin Inst. of Tech. Weihai
Wen, Jianmin	Harbin Inst. of Tech.
Chen, Jun	Harbin Inst. of Tech. Weihai
13:50-14:10	ThC3.2
<i>Dynamics Modeling and Control System Design for the Reentry Warhead Controlled by Single Moving Mass (I)</i> , pp. 1218-1223.	
Gao, Changsheng	Harbin Inst. of Tech.
Wei, Pengxin	Harbin Inst. of Tech.
Jing, Wuxing	Harbin Inst. of Tech.
14:10-14:30	ThC3.3
<i>Planner Test and Analyzing System for Deep Space Mission (I)</i> , pp. 1224-1229.	
Zhao, Fanyu	BIT
Cui, Pingyuan	Beijing Inst. of Tech.
Xu, Rui	Beijing Inst. of Tech.
Peng, Ting	BIT
Chen, Dexiang	BIT
14:30-14:50	ThC3.4
<i>Research of Multidisciplinary Inter-Satellite Communication System Simulation (I)</i> , pp. 1230-1234.	
Wu, Guoqiang	Dalian Univ. of Tech.
Wu, Zhigang	Dalian Univ. of Tech.
Wu, Shunan	Dalian Univ. of Tech.
14:50-15:10	ThC3.5
<i>Fast Matching of Feature Point and Relative Motion Estimation for Asteroid Landing Phase (I)</i> , pp. 1235-1239.	
Zhu, Shengying	BIT
Xu, Rui	Beijing Inst. of Tech.
Wang, Huan	BIT
Hu, Haijing	BIT
15:10-15:30	ThC3.6
<i>Mechanical Model of Hollow-External-Screw Drill Rod for Lunar Soil Particle Vertical Conveying (I)</i> , pp. 1240-1245.	
Wei, Cheng	Harbin Inst. of Tech.
Wang, Hongliu	Harbin Inst. of Tech.

Liu, Tianxi

Harbin Inst. of Tech.

ThC4	Narcissus
Systems Biology and Medical Engineering II (Invited Session)	

Chair: Tang, Hai-Ying	The 1st Affiliated Hospital of Dalian Medical Univ. Dalian
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Co-Chair: He, Ying	USTC
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13:30-13:50	ThC4.1
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A Porous Media Model of Human Hand to Study the Relationship between Endothelial Function and Fingertip Temperature Oscillation (I), pp. 1246-1249.

Tang, Yuanliang	USTC
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He, Ying	USTC
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Shao, Hongwei	USTC
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Mizeva, Irina	Inst. of Continuous Media Mechanics
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13:50-14:10	ThC4.2
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A Hemodynamic Model Describing Metabolism of Substance and SQD (I), pp. 1250-1254.

Yang, Hongwei	Fudan Univ.
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Yao, Wei	Fudan Univ.
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14:10-14:30	ThC4.3
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Instability of the Aged Arterial Wall in Disease (I), pp. 1255-1259.

Xu, Shen-Xin	Shanghai Univ.
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Ren, Jiu-Sheng	Shanghai Univ.
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14:30-14:50	ThC4.4
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Identification of Differential Proteins in Pharyngeal Airway Surface Liquid of the Patients Associated with Obstructive Sleep Apnea Syndrome by Proteome Analysis (I), pp. 1260-1263.

Liu, Yongyi	the 4th Affiliated hospital of Jiangsu Univ.
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Gao, Lu	Jiangsu Univ.
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Zong, Jing	the Affiliated Hospital of Jiansu Univ.
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Huang, Yuanbo	the 4th Affiliated hospital of Jiangsu Univ.
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14:50-15:10	ThC4.5
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Construction of GLI1 Shrna Expression Vector and Effects on the Proliferation of Ovarian Cancer Cells (I), pp. 1264-1268.

Wang, Li-Xia	2 nd hospital of Dalian medical Univ.
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Mao, Jun	Dalian medical Univ.
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Li, Rongkuan	Dalian Medical Univ.
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Tao, Yajun	Dalian Univ.
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Mou, Qiuju	Dalian Medical Univ.
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Li, Lianhong	Dalian Medical Univ.
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15:10-15:30	ThC4.6
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Relationship between Gastric Dysmotility and Severity of Dyspeptic Symptoms in Patients with Functional Dyspepsia (I), pp. 1269-1273.

Tang, Hai-Ying	The 1st Affiliated Hospital of Dalian Medical Univ. Dalian
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Wang, Ying-De	The 1st Affiliated Hospital of Dalian Medical Univ.
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Zhang, Yan-Jun	The 1st Affiliated Hospital of Dalian Medical Univ. Dalian
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Xie, Jing-Hui	The 1st Affiliated Hospital of Dalian Medical Univ. Dalian
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ThCP1	VIP Room
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Petri Nets and Process Modeling (Interactive Session)	
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Chair: Wang, Shouguang	Zhejiang Gongshang Univ.
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Co-Chair: Liu, Ding	Xidian Univ.
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13:30-15:30	ThCP1.1
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Sensitivity Embedded Homotopy-Based Backtracking Method for Chemical Process Simulation, pp. 1274-1277.

Chen, Weifeng	Zhejiang Univ. of Tech.
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Zhu, Lingyu	Zhejiang Univ. of Tech.
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Chen, Xi	Zhejiang Univ.
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Shao, Zhijiang	Zhejiang Univ.
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13:30-15:30	ThCP1.2
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Liveness and Resource Usage Ratio-Enforcing Supervisor for a Class of Generalized Petri Nets, pp. 1278-1283.

Liu, Ding	Xidian Univ.
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Hou, YiFan	Xidian Univ.
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Hu, Hesuan	Xidian Univ. China
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Barkaoui, Kamel	Conservatoire National des Arts et Métiers
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Zhou, Meng Chu	New Jersey Inst. of Tech.
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13:30-15:30	ThCP1.3
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Information Integration Strategy of Petrochemical Industry from the Multi-Scale Perspective, pp. 1284-1289.

Zhu, Feng	Zhejiang Univ.
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Feng, Yiping	Zhejiang Univ.
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Rong, Gang	Zhejiang Univ.
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13:30-15:30	ThCP1.4
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New Controllability Condition for WS3PR Nets, pp. 1290-1295.

Guan, Xuan xuan	Zhejiang Gongshang Univ.
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Wang, Shouguang	Zhejiang Gongshang Univ.
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13:30-15:30	ThCP1.5
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A New Reachability Tree for Unbounded Petri Nets, pp. 1296-1301.

Li, Yue	ZhejiangGongshang Univ.
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Wang, Shouguang	Zhejiang Gongshang Univ.
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ThCP2	VIP Room
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Fuzzy and Neural Systems II (Interactive Session)	
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Chair: Zhang, Yunong	Sun Yat-Sen Univ.
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Co-Chair: Fei, Juntao	Hohai Univ.
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13:30-15:30	ThCP2.1
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Improved Delay-Dependent Stability Criteria for Time-Delayed Neural Networks, pp. 1302-1305.

Li, Peiran	Zhejiang Univ.
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Bao, Zhejing	Zhejiang Univ.
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Yan, Wenjun	Zhejiang Univ.
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13:30-15:30	ThCP2.2
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Be Expert in Multiple Aspects and Good at Many Modular Neural Network with Reduced Subnet Relative Training Complexity, pp. 1306-1311.

Wang, Jiasen	Zhejiang Univ.
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Huang, Chao	Zhejiang Univ.
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Ye, Xudong	Zhejiang Univ.
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13:30-15:30	ThCP2.3
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Growing-Type WASD for Power-Activation Neuronet to Model and Forecast Monthly Time Series, pp. 1312-1317.

Zhang, Yunong	Sun Yat-Sen Univ.
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Lao, Wenchao	Sun Yat-sen Univ.
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Jin, Long	Sun Yat-sen Univ.
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Chen, Jinhao	Sun Yat-sen Univ.
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Liu, Jinrong	Sun Yat-sen Univ.
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13:30-15:30	ThCP2.4
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Adaptive Fuzzy Sliding Control with Fuzzy Sliding Term for

Three-Phase Active Power Filter, pp. 1318-1323.

Hou, Shixi Hohai Univ.
Fei, Juntao Hohai Univ.

13:30-15:30 ThCP2.5

An Enhancing Dynamic Self-Organizing Map for Data Clustering, pp. 1324-1329.

Wang, Ting Southeast Univ.
Yu, Xinghuo RMIT Univ.
Alahakoon, Daminda Monash Univ.
Fei, Shumin Southeast Univ.

13:30-15:30 ThCP2.6

Different Complex ZFs Leading to Different Complex ZNN Models for Time-Varying Complex Matrix Inversion, pp. 1330-1335.

Zhang, Yunong Sun Yat-Sen Univ.
Guo, Dongsheng Sun Yat-Sen Univ.
Li, Fen Sun Yat-sen Univ.

13:30-15:30 ThCP2.7

Fuzzy Integral Lyapunov Function Based Fuzzy Control for Takagi-Sugeno Fuzzy Systems with Passive Constraints, pp. 1336-1341.

Chang, Wen-Jer National Taiwan Ocean Univ.
Chang, Yao-Chung National Taiwan Ocean Univ.

ThCP3 VIP Room
Vision-Based Modelling and Image Processing (Interactive Session)

Chair: Liang, Guoyuan Shenzhen Inst. of Advanced Tech.
Co-Chair: Yang, Qinmin Zhejiang Univ.

13:30-15:30 ThCP3.1

The Application of Image Based Visual Servo Control System for SmartGuard, pp. 1342-1345.

Li, Li Shandong Electric Power Res. Inst.
Wang, Binhai Shandong Electric Power Res. Inst.
Li, Beidou Shandong luneng Intelligence Tech. Co., Ltd.,
Xiao, Peng Shandong Electric Power Res. Inst.
Wang, Wanguo Shandong Electric Power Res. Inst.
Li, Yibin Shandong Univ.

13:30-15:30 ThCP3.2

A Fast and Robust Fingertips Tracking Algorithm for Vision-Based Multi-Touch Interaction, pp. 1346-1351.

Xie, Qunqun Chinese Acad. of Sciences
Liang, Guoyuan Shenzhen Inst. of Advanced Tech.
Tang, Cheng Shenzhen Inst. of Advanced Tech.
Wu, Xinyu Shenzhen Inst. of Advanced Tech.

13:30-15:30 ThCP3.3

A Lane Departure Warning System Based on the Integration of the Optical Flow and Hough Transform Methods, pp. 1352-1357.

Taubel, Gregory Univ. of Minnesota Duluth
Yang, Jiann-Shiou Univ. of Minnesota Duluth

13:30-15:30 ThCP3.4

The Detection Method of the Silicon Melting Process in the CZ Single-Crystal Furnace, pp. 1358-1362.

Jiang, Lei Xi'an Univ. of Tech.
Liu, Ding Xi' an Univ. of Tech.
Zhao, Yue Xi' an Univ. of Tech.
Jiao, Shang-Bin Xi' an Univ. of Tech.

13:30-15:30 ThCP3.5

A Special Detector for the Edge Adaptive Image Steganography Based on LSB Matching Revisited, pp. 1363-1366.

Zhu, Zhenhao Zhengzhou Information Science and Tech. Inst.
Zhang, Tao Zhengzhou Information Science and Tech. Inst.
Wan, Baoji Zhengzhou Information Science and Tech. Inst.

13:30-15:30 ThCP3.6

A Hybrid No-Reference Blockiness Metric for H.264 Standard, pp. 1367-1371.

Deng, Yi Zhejiang Univ.
Yang, Qinmin Zhejiang Univ.
Lu, Jianguang Zhejiang Univ.
Liu, Ning Zhejiang Univ.
Sun, Youxian Zhejiang Univ.

ThCP4 VIP Room
Sensor Networks and Networked Control III (Interactive Session)

Chair: Liu, Zhitao Zhejiang Univ.
Co-Chair: Qin, Huabiao South China Univ. of Tech.

13:30-15:30 ThCP4.1

Design of Household Control System Based on ZigBee, GSM and TCP/IP Protocol, pp. 1372-1375.

Xiang, Leijun Huaqiao Univ.

13:30-15:30 ThCP4.2

Adaptive State Aware Routing Protocol for Vehicle Ad Hoc Network in Urban Scenarios, pp. 1376-1381.

Qin, Huabiao South China Univ. of Tech.
Yu, Cong South China Univ. of Tech.

13:30-15:30 ThCP4.3

An Energy-Efficient Clustering Algorithm for Wireless Sensor Networks, pp. 1382-1386.

Yang, Yiping Shanghai Jiao Tong Univ.
Lai, Chuan Shanghai Jiao Tong Univ.
Wang, Lin Shanghai Jiao Tong Univ.

13:30-15:30 ThCP4.4

A Virtual Area Partition Clustering Protocol with Assistant Cluster Heads for Wireless Sensor Networks, pp. 1387-1390.

Ma, Dexin Qingdao Agricultural Univ.
Ma, Jian Beijing Univ. of Posts and Telecommunications
Cheng, Long Beihang Univ.
Xu, Pengmin Qingdao Agricultural Univ.

13:30-15:30 ThCP4.5

The Analysis of Single Region Failure for Linear Wireless Sensor Networks with Energy Balance Deployment Strategy, pp. 1391-1395.

Wang, Zhengjie Shandong Univ. of Science and Tech.
Zhao, Xiaoguang Chinese Acad. of Sciences
Qian, Xu China Univ. of Mining & Tech.

13:30-15:30 ThCP4.6

Stochastic Observability of Linear Systems under Access Constraints, pp. 1397-1402.

Tian, Yin Zhejiang Univ.
Zhang, Hui Zhejiang Univ.

ThCP5 VIP Room
Robotics I (Interactive Session)

Chair: Wang, Fei National Univ. of Singapore
Co-Chair: Xiong, Rong Zhejiang Univ.

13:30-15:30 ThCP5.1

Path Planning for Dubins Micro-Robots Using Switching Control, pp. 1403-1408.

An, Yatong	Zhejiang Univ.
Xu, Chao	Zhejiang Univ.
Lin, Qun	Curtin Univ.
Loxton, Ryan	Curtin Univ.
Teo, Kok Lay	Curtin Univ. of Tech.

13:30-15:30 ThCP5.2

Active Semantic Localization of Mobile Robot Using Partial Observable Monte Carlo Planning, pp. 1409-1414.

Li, Shen	Zhejiang Univ.
Xiong, Rong	Zhejiang Univ.
Wang, Yue	Zhejiang Univ.

13:30-15:30 ThCP5.3

Extended Applications of LineROver Technology, pp. 1415-1418.

Zhang, Feng	Shandong Electric Power Res. Inst.
Cao, Lei	Shandong Electric Power Res. Inst.
Guo, Rui	Shandong Electric Power Res. Inst.
Zhong, Liang	Shandong Electric Power Res. Inst.
Jia, Juan	Shandong Electric Power Res. Inst.
Jia, Yonggang	Shandong Electric Power Res. Inst.
Chi, Xiaoming	Shandong Electric Power Res. Inst.

13:30-15:30 ThCP5.4

A Mobile Robot Prototype for Inspection of Overhead Bundled Conductors, pp. 1419-1422.

Guo, Rui	Shandong Electric Power Res. Inst.
Zhang, Feng	Shandong Electric Power Res. Inst.
Cao, Lei	Shandong Electric Power Res. Inst.
Zhong, Liang	Shandong Electric Power Res. Inst.

13:30-15:30 ThCP5.5

The Framework Design of Humanoid Robots in the RoboCup 3D Soccer Simulation Competition, pp. 1423-1428.

Hao, Yue	Nanjing Univ. of Posts and Telecommunications
Liang, Zhiwei	Nanjing Univ. of Posts and Telecommunications
Liu, Juan	Nanjing Univ. of Posts and Telecommunications
Li, Junya	Nanjing Univ. of Posts and Telecommunications
Zhao, Hecheng	Nanjing Univ. of Posts and Telecommunications

13:30-15:30 ThCP5.6

Real-Time Measure and Control System of Biped Walking Robot Based on Sensor, pp. 1429-1434.

Fan, Jian	Southeast Univ.
Yan, Xue	Southeast Univ.
Luo, Xiang	Southeast Univ.

13:30-15:30 ThCP5.7

Strapdown Navigation Using Geometric Algebra: Modeling and Error Analysis, pp. 1435-1440.

Wang, Zhengzhi	National Univ. of Defence Tech.
Wang, Zhengzhi	National Univ. of Defense Tech.

Technical Program for Friday June 14, 2013

FrA1		Rose
Fault Detection (Regular Session)		
Chair: Gao, Furong	Hong Kong Univ. of Science & Tech.	
Co-Chair: Xu, Zhengguo	Zhejiang Univ.	
08:30-08:50		FrA1.1
<i>The Multi-Space Generalization of Total Projection to Latent Structures (MST-PLS) and Its Application to Online Process Monitoring</i> , pp. 1441-1446.		
Zhao, Chunhui	Zhejiang Univ.	
Sun, Youxian	Zhejiang Univ.	
Gao, Furong	Hong Kong Univ. of Science & Tech.	
08:50-09:10		FrA1.2
<i>Adaptive PCA Based Fault Diagnosis Scheme in Imperial Smelting Process</i> , pp. 1447-1453.		
Hu, Zhikun	Central South Univ.	
Chen, Zhiwen	Univ. of Duisburg-Essen	
Gui, Weihua	Central South Univ.	
Jiang, Bin	NJUA	
09:10-09:30		FrA1.3
<i>On Soft Fault Diagnosis Method Based HHT for Analog Circuits</i> , pp. 1454-1459.		
Ma, Xiangnan	Zhejiang Univ.	
Xu, Zhengguo	Zhejiang Univ.	
Wang, Wenhai	Zhejiang Univ.	
Sun, Youxian	Zhejiang Univ.	
09:30-09:50		FrA1.4
<i>A KPI-Related Multiplicative Fault Diagnosis Scheme for Industrial Processes</i> , pp. 1460-1465.		
Hao, Haiyang	Univ. of Duisburg-Essen	
Zhang, Kai	Univ. of Duisburg-Essen	
Ding, Steven X.	Univ. of Duisburg-Essen	
Chen, Zhiwen	Univ. of Duisburg-Essen	
Lei, Yaguo	Xi'an Jiaotong Univ.	
Hu, Zhikun	Central South Univ.	
09:50-10:10		FrA1.5
<i>Fault Detection Filtering for Uncertain Markovian Jump Stochastic Systems with Mode-Dependent Time Delays (I)</i> , pp. 1466-1471.		
Zhuang, Guangming	Nanjing Univ. of Science and Tech.	
FrA2		Magnolia
Motion Control (Regular Session)		
Chair: Won, Sangchul	Pohang Univ. of Sci. and Tech.	
Co-Chair: Nassef, Mohamed Galal	Univ. of Bremen	
08:30-08:50		FrA2.1
<i>A New Way of Understanding Position Error in Wheeled Mobile Robots Control Problem</i> , pp. 1471-1478.		
Pan, Sining	Tsinghua Univ.	
Dai, Jin	Univ. of Notre Dame	
08:50-09:10		FrA2.2
<i>Observer-Based Guaranteed Cost Control for Lateral Motion of a Strip in Hot Rolling Process</i> , pp. 1479-1484.		
Kim, Kanghyun	Pohang Univ. of Science and Tech.	
Won, Sangchul	Pohang Univ. of Sci. and Tech.	
09:10-09:30		FrA2.3

<i>Energy Saving Position Control Algorithms for PMSM Drives with Coulomb and Viscous Friction</i> , pp. 1485-1490.		
Vitteck, Jan	Univ. of Zilina	
Bris, Peter	Univ. of Zilina	
09:30-09:50		FrA2.4
<i>Contour Tracking Control in Position Domain for Multi-DOF Robotic Manipulators</i> , pp. 1491-1496.		
Ouyang, Puren	Ryerson Univ.	
Pano, Vangjel	Ryerson Univ.	
Acob, John Michael	Ryerson Univ.	
09:50-10:10		FrA2.5
<i>Compensation of Induced Vibrations by Commanded Counter Motions in Kinematic Redundant Feed Drive Systems</i> , pp. 1497-1502.		
Nassef, Mohamed Galal	Univ. of Bremen	
Schenck, Christian	Univ. of Bremen	
Kuhfuss, Bernd	Univ. of Bremen	
FrA3		Plum Blossom
Perception and Sensor Fusion for Robotics (Invited Session)		
Chair: Cabibihan, John-John	NUS	
Co-Chair: Ramesh, Bharath	NUS	
Organizer: Cabibihan, John-John	NUS	
08:30-08:50		FrA3.1
<i>Scalable Scene Understanding Using Saliency-Guided Object Localization (I)</i> , pp. 1503-1508.		
Ramesh, Bharath	National Univ. of Singapore	
Xiang, Cheng	National Univ. of Singapore	
08:50-09:10		FrA3.2
<i>Sensing Discomfort of Standing Passengers in Public Rail Transportation Systems Using a Smart Phone (I)</i> , pp. 1509-1513.		
Karimpanal George, Thommen	National Univ. of Singapore	
Gadhia, Harit Maganlal	National Univ. of Singapore	
Sukumar, Ruben	National Univ. of Singapore	
Cabibihan, John-John	NUS	
09:10-09:30		FrA3.3
<i>Object Shape Discrimination Using Sensorized Glove (I)</i> , pp. 1514-1519.		
Anand, Anup	National Univ. of Singapore	
Mathew, Josey	National Univ. of Singapore	
Rao Krishna, Satya Pramod	National Univ. of Singapore	
Paul, Sayan	National Univ. of Singapore	
Ramesh, Bharath	National Univ. of Singapore	
Xiang, Cheng	National Univ. of Singapore	
Cabibihan, John-John	NUS	
09:30-09:50		FrA3.4
<i>Sensor Fusion and Surrounding Environment Mapping for a Mobile Robot Using a Mixed Extended Kalman Filter</i> , pp. 1520-1525.		
D'Alfonso, Luigi	Univ. della Calabria	
Grano, Antonio	UNICAL-DIMES	
Muraca, Pietro	Univ. della Calabria	
Pugliese, Paolo	Univ. della Calabria	
09:50-10:10		FrA3.5
<i>Mobile Robot Localization in an Unknown Environment Using Sonar Sensors and an Incidence Angle Based Sensors Switching Policy - Experimental Results</i> , pp. 1526-1531.		

D'Alfonso, Luigi	Univ. della Calabria
Grano, Antonio	UNICAL-DIMES
Muraca, Pietro	Univ. della Calabria
Pugliese, Paolo	Univ. della Calabria

FrA4	Narcissus
Optimization Techniques and Applications (Invited Session)	
Chair: Yang, Bo	Shanghai Jiao Tong Univ.
Co-Chair: Yang, Zaiyue	Zhejiang Univ.
Organizer: Hu, Guoqiang	Nanyang Tech. Univ.
Organizer: Yang, Bo	Shanghai Jiao Tong Univ.
Organizer: Yang, Zaiyue	Zhejiang Univ.

08:30-08:50	FrA4.1
<i>Optimal Charging Strategy of Plug-In Electric Taxi (I)</i> , pp. 1532-1537.	
Sun, Lihao	Zhejiang Univ.
Yang, Jinfeng	Zhejiang Univ.
Yang, Zaiyue	Zhejiang Univ.

08:50-09:10	FrA4.2
<i>Pricing-Based Cross-Layer Scheduling and Energy Management Over OFDM Downlink Networks (I)</i> , pp. 1538-1543.	
Yang, Yong	Shanghai Jiao Tong Univ.
Yang, Bo	Shanghai Jiao Tong Univ.
Guan, Xinping	Shanghai Jiao Tong Univ.

09:10-09:30	FrA4.3
<i>Fast Algorithms to Solve the Dantzig Selector (I)</i> , pp. 1544-1549.	
Li, Liang	USTC
Li, Yongcheng	USTC
Ling, Qing	USTC

09:30-09:50	FrA4.4
<i>Dynamic Mean-CVaR Portfolio Optimization in Continuous-Time (I)</i> , pp. 1550-1555.	
Gao, Jianjun	Shanghai Jiao Tong Univ.
Xiong, Yan	Department of Automation, Shanghai Jiao Tong Univ.

09:50-10:10	FrA4.5
<i>Lagrangian Decomposition and Second-Order Cone Programming Based Warehouse Storage Planning Problem</i> , pp. 1556-1560.	
Yuan, Yuan	Northeastern Univ.
Zhang, Bo	Northeastern Univ.
Tang, Lixin	Northeastern Univ.

FrB1	Rose
Aircraft Control System (Regular Session)	
Chair: Mora-Camino, F.	ENAC
Co-Chair: Chang, Bor-chin	Drexel Univ.
10:30-10:50	FrB1.1
<i>Aircraft Control Surface Failure Accommodation Utilizing Linear Regulation and Switching Control</i> , pp. 1561-1566.	
Salman, Mishah Uzziél	Drexel Univ.
Chang, Bor-chin	Drexel Univ.

10:50-11:10	FrB1.2
<i>Multi-Body Dynamic Modelling and Roll Control of Asymmetric Variable Sweep Morphing Aircrafts</i> , pp. 1567-1572.	
Tong, Lei	Univ. of Science and Tech. of China

Ji, Haibo	Univ. of Science and Tech. of China
11:10-11:30	FrB1.3
<i>Design of Flight Control System for a Hypersonic Gliding Vehicle Based on Nonlinear Disturbance Observer</i> , pp. 1573-1577.	

Qian, Chengshan	Southeast Univ.
Sun, Changyin	Southeast Univ.
Huang, Yiqing	Southeast Univ.
Jingmei, Zhang	Southeast Univ.
Zhang, Ruimin	Southeast Univ.
Mu, Chaoxu	Tianjin Univ.

11:30-11:50	FrB1.4
<i>Controller Design Based on T-S Fuzzy Reasoning and ADRC for a Flying Boat</i> , pp. 1578-1583.	
Zhu, Yinggu	Chinese Acad. of Sciences
Fan, Guoliang	Inst. of Automation Chinese Acad. of Sciences
Yi, Jianqiang	Inst. of Automation Chinese Acad. of Sciences

11:50-12:10	FrB1.5
<i>Controlling Attitude Maneuvers of Flexible Spacecraft Based on Nonlinear Model Using Combined Feedback-Feedforward Constant-Amplitude Input</i> , pp. 1584-1591.	
Parman, Setyamartana	Univ. Teknologi PETRONAS

12:10-12:30	FrB1.6
<i>Aircraft Trajectory Management and Control with Spatial Reference</i> , pp. 1592-1597.	
Mora-Camino, F.	ENAC
Bouadi, Hakim	ENAC
Brandão Ramos, Alexandre Carlos	UNIFEI
Miquel, Thierry	ENAC

FrB2	Magnolia
Robotics II (Regular Session)	
Chair: Milne, Bartholomew James Estall	Univ. of Canterbury
Co-Chair: Ravn, Ole	Tech. Univ. of Denmark

10:30-10:50	FrB2.1
<i>DARC: Next Generation Decentralized Control Framework for Robot Applications</i> , pp. 1598-1602.	
Kjaergaard, Morten	Tech. University of Denmark
Andersen, Nils A.	Tech. Univ. of Denmark
Ravn, Ole	Tech. Univ. of Denmark

10:50-11:10	FrB2.2
<i>Adaptive Tracking Control of a Nonholonomic Mobile Robot Using Neuro-Nonlinear Predictive Control</i> , pp. 1603-1607.	
Hosseininasab, Seyedmehdi	Islamic Azad University
Noubari, Hossein	Tehran Univ.
Zarea Atabaki, Esmaiel	Iran Univ. of Science

11:10-11:30	FrB2.3
<i>Robotisation of Forestry Harvesting in New Zealand - an Overview</i> , pp. 1609-1614.	
Milne, Bartholomew James Estall	Univ. of Canterbury
Chen, XiaoQi	Univ. of Canterbury
Hann, Christopher Eric	Univ. of Canterbury

11:30-11:50	FrB2.4
<i>Kinematic Model and Inverse Control for Continuum Manipulators</i> , pp. 1615-1620.	
Kang, Rongjie	Istituto Italiano di Tecnologia

Guglielmino, Emanuele	Istituto Italiano di Tecnologia
Branson, David Thomas	Univ. of Nottingham
Caldwell, Darwin	Istituto Italiano di Tecnologia

11:50-12:10 FrB2.5

Kinematic Navigation of a Mobile Robot for Environmental Extremum Seeking without Derivatives Estimation, pp. 1621-1626.

Matveev, Alexey S.	St.Petersburg Univ.
Hoy, Michael Colin	Univ. of New South Wales
Savkin, Andrey V.	Univ. of New South Wales

12:10-12:30 FrB2.6

Existence and Design of Reduced-Order Stable Stabilizing Controllers for Remotely Driven Acrobot, pp. 1627-1632.

Xin, Xin	Okayama Prefectural Univ.
Liu, Yannian	Okayama Univ.

FrB3 Plum Blossom
Advances in Nonlinear Control and Applications (Invited Session)

Chair: Ding, Zhengtao	The Univ. of Manchester
Co-Chair: Wang, Dong	Dalian Univ. of Tech.
Organizer: Pang, Chee Kiang	National Univ. of Singapore

10:30-10:50 FrB3.1

Output Regulation of Time Delay Systems Based on Internal Model Principle (I), pp. 1633-1638.

Wang, Dong	Dalian Univ. of Tech.
Wang, Jianliang	Nanyang Tech. Univ.
Shi, Peng	Univ. of Glamorgan
Wang, Wei	Dalian Univ. of Tech.

10:50-11:10 FrB3.2

Development, Control and Navigation of Octocopter (I), pp. 1639-1643.

Yuan, Shenghai	NanYang Tech. Univ.
Wang, Ning	Dalian Maritime Univ.
Er, Meng Joo	Nanyang Tech. Univ.

11:10-11:30 FrB3.3

Cooperative Global Adaptive Output Regulation for a Class of Nonlinear Uncertain Multi-Agent Systems with Uncertain Leader (I), pp. 1644-1649.

Su, Youfeng	Chinese Univ. of Hong Kong
Huang, Jie	Chinese Univ. of Hong Kong

11:30-11:50 FrB3.4

Hybrid Symbolic Control for Robot Motion Planning (I), pp. 1650-1655.

Karimodini, Ali	National Univ. of Singapore
Lin, Hai	Univ. of Notre Dame

11:50-12:10 FrB3.5

Non-Convex Large-Scale Scheduling for Energy-Efficient Flexible Stamping Systems (I), pp. 1656-1661.

Pang, Chee Kiang	National Univ. of Singapore
Le, Cao Vinh	National Univ. of Singapore

12:10-12:30 FrB3.6

NonLinear Control Design and Stability Analysis of a Small-Scale Unmanned Aerial Vehicle (I), pp. 1662-1667.

Zhang, Lin	The Univ. of manchester
Ding, Zhengtao	The Univ. of Manchester

FrB4 Narcissus

Game Theory and Networked Control Systems (Invited Session)

Chair: Hu, Guoqiang	Nanyang Tech. Univ.
Co-Chair: Xie, Lihua	Nanyang Tech. Univ.
Organizer: Xie, Lihua	Nanyang Tech. Univ.
Organizer: Hu, Guoqiang	Nanyang Tech. Univ.

10:30-10:50 FrB4.1

Distributed Consensus in Noncooperative Congestion Games: An Application to Road Pricing (I), pp. 1668-1673.

Wang, Xuehe	Nanyang Tech. Univ.
Xiao, Nan	Singapore-MIT Alliance for Res. and Tech. Centre

Wongpiromsarn, Tichakorn	Ministry of Science and Tech.
Xie, Lihua	Nanyang Tech. Univ.
Frazzoli, Emilio	Massachusetts Inst. of Tech.
Rus, Daniela	CSAIL, MIT

10:50-11:10 FrB4.2

Distributed Seeking of Time-Varying Nash Equilibrium for Non-Cooperative Games (I), pp. 1674-1679.

Ye, Maojiao	Nanyang Tech. Univ.
Hu, Guoqiang	Nanyang Tech. Univ.

11:10-11:30 FrB4.3

Application of STP to Cooperative Games (I), pp. 1680-1685.

Cheng, 45375	Chinese Acad. of Sciences
Xu, Tingting	Chinese Acad. of Sciences

11:30-11:50 FrB4.4

Distributed Set Protection with Complex Adjacency Matrices (I), pp. 1686-1690.

Lou, Youcheng	Chinese Acad. of Sciences
Hong, Yiguang	Chinese Acad. of Sciences

11:50-12:10 FrB4.5

Distributed Coverage Control of Multi-Agent Systems Using Navigation Function (I), pp. 1691-1695.

Zhai, Chao	Acad. of Math and Systems Science, Chinese Acad. of Sciences
Hong, Yiguang	Chinese Acad. of Sciences

12:10-12:30 FrB4.6

Output Feedback Stabilization of Wireless Networked Control System with Packet Dropout, pp. 1696-1701.

Gao, Jinfeng	Zhejiang Sci-Tech. Univ.
Fu, Minyue	Univ. of Newcastle
Ren, Jia	Zhejiang Sci-Tech. Univ.

FrC1 Rose
Autonomous Unmanned Systems II (Regular Session)

Chair: Chang, Fan Ren	National Taiwan Univ.
Co-Chair: Shima, Tal	Technion

13:30-13:50 FrC1.1

Open Loop System Identification for a Quadrotor Helicopter System, pp. 1702-1707.

Schreurs, Rik	Eindhoven Univ. of Tech.
Han, Tao	Zhejiang Univ.
Zhang, Quanquan	Zhejiang Univ.
Zhu, Yucai	Zhejiang Univ.
Xu, Chao	Zhejiang Univ.
Weiland, Siep	Eindhoven Univ. of Tech.
Zhu, Jiangcheng	Univ. of California - San Diego

13:50-14:10 FrC1.2

A Closed-Form Algorithm for Eliminating User Position

Biases Caused by Satellite Constellation Changes, pp. 1708-1713.

Chen, Hung-Wei	National Taiwan Univ.
Chang, Fan Ren	National Taiwan Univ.
Wang, He-Sheng	National Taiwan Ocean Univ.
Chiang, Yi-Te	Lee-Ming Inst. of Tech.

14:10-14:30 FrC1.3

Model and Longitudinal Hover Control of a Conceptual Thrust-Vectored Unmanned Tail-Sitter, pp. 1714-1717.

Zhang, Chao	Tsinghua Univ.
Zhu, Jihong	Tsinghua Univ.
Liu, Kai	Tsinghua Univ.
Yuan, Xiaming	Tsinghua Univ.
Gao, Yakui	AVIC The First Aircraft Inst.

14:30-14:50 FrC1.4

An Adaptive Preview Path Tracker for Off-Road Autonomous Driving, pp. 1718-1723.

Li, Xiaohui	National Univ. of Defense Tech.
Sun, Zhenping	National Univ. of Defense Tech.
Chen, Qingyang	National Univ. of Defense Tech.
Liu, Daxue	National Univ. of Defense Tech.

14:50-15:10 FrC1.5

Active Fault Diagnosis Based on Fault-Tolerant Control with Control Constraints for an Electric 4WD Vehicle, pp. 1724-1729.

Zhang, Xian	Lille 1
Cocquemot, Vincent	Lille 1 Univ.
Jiang, Bin	NUAA
Yang, Hao	NUAA

15:10-15:30 FrC1.6

Integrated Single vs. Two Loop Autopilot-Guidance Design for Dual Controlled Missiles, pp. 1730-1735.

Levy, Maital	Tech. - Israel Inst. of Tech.
Shima, Tal	Technion
Gutman, Shaul	Tech.

FrC2 Magnolia
Nonlinear Systems and Control II (Regular Session)

Chair: Lan, Weiyao	Xiamen Univ.
Co-Chair: Fei, Qing	Beijing Inst. of Tech.

13:30-13:50 FrC2.1

On Control Design for a Class of Parametric Uncertain Nonlinear Systems, pp. 1736-1741.

Hu, Qiong	Beijing Inst. of Tech.
Fei, Qing	Beijing Inst. of Tech.
Ma, Hongbin	Beijing Inst. of Tech.
Wu, Qinghe	Beijing Inst. of Tech.
Geng, Qingbo	Beijing Inst. of Tech.

13:50-14:10 FrC2.2

Attitude Control of Rigid Body Via Input-To-State Stability and Small-Gain Theorem, pp. 1742-1747.

Liao, Fei	Univ. of Science and Tech. of China
Yan, Han	Univ. of Science and Tech. of China
Ji, Haibo	Univ. of Science and Tech. of China

14:10-14:30 FrC2.3

Transient Performance Improvement for Output Regulation Problem of Linear Discrete-Time Systems with Input Saturation, pp. 1748-1753.

Chu, Xing	Univ. of Xiamen
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Lan, Weiyao	Xiamen Univ.
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14:30-14:50 FrC2.4

Tracking of Deforming Environmental Level Sets of Dynamic Fields by a Nonholonomic Robot without Gradient Estimation, pp. 1754-1759.

Matveev, Alexey S.	St.Petersburg Univ.
Hoy, Michael Colin	Univ. of New South Wales
Anisimov, Alexander	Saint Petersburg Univ.
Savkin, Andrey V.	Univ. of New South Wales

14:50-15:10 FrC2.5

Hybrid PD Sliding Mode Control of a Two Degree-Of-Freedom Parallel Robotic Manipulator, pp. 1760-1765.

Acob, John Michael	Ryerson Univ.
Pano, Vangjel	Ryerson Univ.
Ouyang, Puren	Ryerson Univ.

15:10-15:30 FrC2.6

A Deterministic State-Space Model of Intrinsic Quantum Uncertainties, pp. 1766-1771.

Yang, Ciann-Dong	National Cheng Kung Univ.
Su, Kuan-Chang	National Cheng Kung Univ.
Kuo, Chung-Hsuan	National Cheng Kung Univ.

FrC3 Plum Blossom
Advances in Intelligent and Mechatronics Systems (Invited Session)

Chair: Tay, Arthur	National Univ. of Singapore
Co-Chair: Pang, Chee Khiang	National Univ. of Singapore
Organizer: Tay, Arthur	National Univ. of Singapore
Organizer: Al-Mamun, Abdullah	National Univ. of Singapore

13:30-13:50 FrC3.1

Study of Web Guide Slippage Phenomena in Roll-To-Roll Embossing System (I), pp. 1772-1777.

Tan, Henry	National Univ. of Singapore
Ma, Wenjing	National Univ. of Singapore
Du, Binglu	National Univ. of Singapore
Chow, Siew Loong	Singapore Inst. of Manufacturing Tech. (SIMTech)
Kiew, Choon Meng	Singapore Inst. of Manufacturing Tech. (SIMTech)
Tay, Arthur	National Univ. of Singapore

13:50-14:10 FrC3.2

Indoor Location Tracking Using Low-Cost Modules (I), pp. 1778-1783.

Kumar, Yogaprakash	National Univ. of Singapore
Soh, Wee-Seng	National Univ. of Singapore

14:10-14:30 FrC3.3

Steering Control of Automatic Lateral-Pendulum Unicycle by Separate Set-Point Controls of Its Longitudinal and Lateral Modes (I), pp. 1784-1789.

Daud, Yohanes	NUS
Al-Mamun, Abdullah	National Univ. of Singapore
Xu, Jian-Xin	National Univ. of Singapore

14:30-14:50 FrC3.4

A Probabilistic Approach to Robust Controller Design for a Servo System with Irregular Sampling (I), pp. 1790-1795.

Keikha, Ehsan	National Univ. of Singapore
Shahsavari, Behrooz	Univ. of California, Berkeley
Al-Mamun, Abdullah	National Univ. of Singapore

Horowitz, Roberto	Univ. of California at Berkeley
14:50-15:10	FrC3.5
<i>Real-Time Gait Monitoring for Parkinson Disease (I)</i> , pp. 1796-1801.	
Tay, Arthur	National Univ. of Singapore
Yen, Shih Cheng	NUS
Li, Jingze	NUS
Lee, Wangwei	NUS
Kumar, Yogaprakash	National Univ. of Singapore
Chung, Chloe LH	TTSH
Liew, Sylvia HX	TTSH
Prakash, Bhaskaran David	NNI
Au, Wing Lok	NNI
15:10-15:30	FrC3.6
<i>A Robust Linear Programming Model for Small Signal Stability of Dynamic Systems (I)</i> , pp. 1802-1807.	
Pang, Chee Kiang	National Univ. of Singapore
Ng, Tsan Sheng	National Univ. of Singapore
Sy, Charle	National Univ. of Singapore

FrC4	Narcissus
Unmanned Aerial Vehicle System Control Approaches and Applications (Invited Session)	

Chair: Luo, Delin	Xiamen Univ.
Co-Chair: He, Zhirong	National Univ. of Singapore
Organizer: Lan, Weiyao	Xiamen Univ.
Organizer: Luo, Delin	Xiamen Univ.

13:30-13:50	FrC4.1
<i>A New Tracking Control Approach of Air-Breathing Hypersonic Vehicles Cruise (I)</i> , pp. 1808-1813.	
Sun, Hongfei	Xiamen Univ.
Yang, Zhiling	Xiamen Univ.

13:50-14:10	FrC4.2
<i>Robust Adaptive Control for a Longitudinal Model of Mars Airplane (I)</i> , pp. 1814-1818.	
Liu, Yanbin	Nanjing Univ. of Aeronautics and Astronautics
Yao, Keming	Jiangsu Teachers Univ. of Tech.
Lu, Yuping	Nanjing Univ. of Aeronautics and Astronautics

14:10-14:30	FrC4.3
<i>Docking Control of Autonomous Aerial Refueling for UAV Based on LQR (I)</i> , pp. 1819-1823.	
Wu, Shunxiang	Xiamen Univ.
Zhang, Lixiao	Xiamen Univ.
Xu, Wenlong	Xiamen Univ.
Zhou, Ting	Xiamen Univ.
Luo, Delin	Xiamen Univ.

14:30-14:50	FrC4.4
<i>Research of RBF Neural Network PID Control Algorithm for Longitudinal Channel Control of Small UAV (I)</i> , pp. 1824-1827.	
Wang, Shichao	Beijing Inst. of Tech.
Li, Baokui	Beijing Inst. of Tech.
Geng, Qingbo	Beijing Inst. of Tech.

14:50-15:10	FrC4.5
<i>A Multivariable Adaptive Reconfigurable Control Method Applied to the Wing Damaged Aircraft (I)</i> , pp. 1828-1833.	
Wang, Yao	Beihang Univ.
Yang, Lingyu	Beihang University
Zhang, Jing	Beihang Univ.

Shen, Gongzhang	Beihang Univ.
15:10-15:30	FrC4.6
<i>Targets Tracking by UAVs in an Urban Area</i> , pp. 1834-1838.	
He, Zhirong	National Univ. of Singapore
Xu, Jian-Xin	National Univ. of Singapore
Lum, Kai-Yew	National Chi Nan Univ.

FrD1	Rose
System Modelling and Identification II (Regular Session)	

Chair: Chiang, Chia-Jui	National Taiwan Univ. of Science and Tech.
Co-Chair: Beghi, Alessandro	Univ. di Padova

16:00-16:20	FrD1.1
<i>Dynamic Modeling of the Electrical and Thermal Behavior of Ultracapacitors</i> , pp. 1839-1844.	
Chiang, Chia-Jui	National Taiwan Univ. of Science and Tech.
Yang, Jing-Long	National Taiwan Univ. of Science and Tech.
Cheng, Wen-Chin	National Taiwan Univ. of Science and Tech.

16:20-16:40	FrD1.2
<i>Parameter Estimation for a Dual Rate System with Time Delay</i> , pp. 1845-1849.	
Han, Lili	Univ. of Saskatchewan
Huang, Biao	Univ. of Alberta

16:40-17:00	FrD1.3
<i>Modeling Individual Complaint Behavior in Daily Office Environment Using a Novel One-Class, Multi-Linear Classifier</i> , pp. 1850-1855.	

Zhao, Yin	Tsinghua Univ.
Zhao, Qianchuan	Tsinghua Univ.
Wang, Fulin	Tsinghua Univ.
Jiang, Yi	UTRC
Zhang, Fan	UTRC

17:00-17:20	FrD1.4
<i>A Novel High Level Canonical Piecewise Linear Model Based on the Simplicial Partition and Its Application</i> , pp. 1856-1861.	
Gao, Xiaoyong	Tsinghua Univ.
Jiang, Yongheng	Tsinghua Univ.
Huang, Dexian	Tsinghua Univ.
Xiong, Zhihua	Tsinghua Univ.

17:20-17:40	FrD1.5
<i>Multiscale Phase Screens Synthesis Based on Local PCA</i> , pp. 1862-1867.	
Beghi, Alessandro	Univ. di Padova
Cenedese, Angelo	Univ. of Padova
Masiero, Andrea	Univ. di Padova

17:40-18:00	FrD1.6
<i>Inferring Dynamic Load of Polished Rod of Oil Well Pumping Unity from the Motor Current</i> , pp. 1868-1873.	
Cajueiro, Emanuel	Federal Univ. of Bahia
Kalid, Ricardo	Federal Univ. of Bahia
Schnitman, Leizer	Federal Univ. of Bahia

FrD2	Magnolia
Smart Grid and Power Control (Regular Session)	

Chair: Long, Chengnian	Shanghai Jiao Tong Univ.
Co-Chair: Chen, Lei	Adelaide Univ.

16:00-16:20	FrD2.1
<i>Scheduling Strategy of Hybrid Energy Storage System for</i>	

Smoothing the Output Power of Wind Farm, pp. 1874-1878.

Chen, Gao	Zhejiang Univ.
Bao, Zhejing	Zhejiang Univ.
Yang, Qiang	Zhejiang Univ.
Yan, Wenjun	Zhejiang Univ.

16:20-16:40 FrD2.2

A New Pricing Mechanism for Power Control in Multicell Wireless Data Networks, pp. 1879-1883.

Lai, Chuan	Shanghai Jiao Tong Univ.
Yang, Yiping	Shanghai Jiao Tong Univ.
Wang, Lin	Shanghai Jiao Tong Univ.
Wang, Xiaofan	Shanghai Jiao Tong Univ.

16:40-17:00 FrD2.3

Agent-Based Multi-Time-Scale Plug Load Energy Management in Commercial Building, pp. 1884-1889.

Guo, Yanyun	Shanghai Jiao Tong Univ.
Wu, Jing	Shanghai Jiao Tong Univ.
Long, Chengnian	Shanghai Jiao Tong Univ.

17:00-17:20 FrD2.4

Extending EAST-ADL towards Formal Modeling and Analysis of Energy-Aware Real-Time Systems, pp. 1890-1895.

Kang, Eun-Young	Univ. of Namur
Schobbens, Pierre Yves	Univ. of Namur

17:20-17:40 FrD2.5

Multi-Zone Temperature Prediction in a Commercial Building Using Artificial Neural Network Model, pp. 1896-1901.

Huang, Hao	Univ. of Adelaide
Chen, Lei	Adelaide Univ.

17:40-18:00 FrD2.6

Equivalent Model and Static Var Compensation for Offshore Wind Farm Implemented on PSCAD/EMTDC, pp. 1902-1906.

Zhao, Fakun	Zhejiang Univ.
Bao, Zhejing	Zhejiang Univ.
Yang, Qiang	Zhejiang Univ.
Yan, Wenjun	Zhejiang Univ.
Zhang, Jie	Zhe Jiang Univ.

FrD3 Plum Blossom
Guidance and Control for Unmanned Aerial Vehicles (Invited Session)

Chair: Luo, Delin	Xiamen Univ.
Co-Chair: Duan, Haibin	Beihang Univ.
Organizer: Luo, Delin	Xiamen Univ.
Organizer: Duan, Haibin	Beihang Univ.

16:00-16:20 FrD3.1

Vision Based Ground Target Tracking for Rotor UAV (I), pp. 1907-1911.

Zhao, Xuqiang	Beijing Inst. of Tech.
Fei, Qing	Beijing Inst. of Tech.
Geng, Qingbo	Beijing Inst. of Tech.

16:20-16:40 FrD3.2

Combining Zigbee and Inertial Sensors for Quadrotor UAV Indoor Localization (I), pp. 1912-1916.

Yu, Libei	Beijing Inst. of Tech.
Fei, Qing	Beijing Inst. of Tech.
Geng, Qingbo	Beijing Inst. of Tech.

16:40-17:00 FrD3.3

Research of the Aerodynamic Parameter Estimation for the

Small Unmanned Aerial Vehicle (I), pp. 1917-1920.

Li, Chao	Xiamen Univ.
Dou, Xiuxin	Xiamen Univ.
Wu, Liaoni	Xiamen Univ.

17:00-17:20 FrD3.4

Obstacle Avoidance and Formation Regrouping Strategy and Control for UAV Formation Flight (I), pp. 1921-1926.

Luo, Delin	Xiamen Univ.
Zhou, Ting	Xiamen Univ.
Wu, Shunxiang	Xiamen Univ.

17:20-17:40 FrD3.5

Distributed Coordinated Task Allocation for Heterogeneous UAVs Based on Capacities (I), pp. 1927-1932.

Di, Bin	NUAA
Zhou, Rui	BUAA
Wu, Jiang	BUAA
Chen, Shaodong	Luoyang Electro-optical Equipment Res. Inst.

17:40-18:00 FrD3.6

Moving Target Tracking by UAVs in an Urban Area, pp. 1933-1938.

He, Zhirong	National Univ. of Singapore
Xu, Jian-Xin	National Univ. of Singapore

FrD4 Narcissus
New Developments on Control Over Networks (Invited Session)

Chair: You, Keyou	Tsinghua Univ.
Co-Chair: Li, Zhongkui	Peking Univ.
Organizer: You, Keyou	Tsinghua Univ.
Organizer: Li, Zhongkui	Peking Univ.

16:00-16:20 FrD4.1

A Game Theoretical Formulation for Distributed Optimization Problems (I), pp. 1939-1944.

Zhang, Jianliang	Zhejiang Univ.
Qi, Donglian	Zhejiang Univ.
Zhao, Guangzhou	Zhejiang Univ.

16:20-16:40 FrD4.2

Cooperative Control for a Class of Large-Scale Linear System Via Delta Operator Approach (I), pp. 1945-1949.

You, Xiu	Yanshan Univ.
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16:40-17:00 FrD4.3

Neural Networked Based Synchronized Control for Multiple Robotic Manipulators (I), pp. 1950-1955.

Zhao, Dongya	China Univ. of Petroleum
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17:00-17:20 FrD4.4

Distributed Tracking Control of Multi-Agent Systems with Heterogeneous Uncertainties (I), pp. 1956-1961.

Li, Zhongkui	Peking Univ..
Duan, Zhisheng	Peking Univ.

17:20-17:40 FrD4.5

Stability of the Kalman Filtering with Two Periodically Switching Sensors Over Lossy Networks (I), pp. 1962-1967.

You, Keyou	Tsinghua Univ.
Sui, Tianju	Zhejiang Univ.
Fu, Minyue	Univ. of Newcastle
Song, Shiji	Tsinghua Univ.

17:40-18:00 FrD4.6

Distributed Tracking of Second-Order Multi-Agent Systems with Measurement Noise (I), pp. 1968-1972.

Li, Wuquan
Li, Tao
Xie, Lihua
Zhang, Ji-Feng

Ludong Univ.
Chinese Acad. of Sciences
Nanyang Tech. Univ.
Chinese Acad. of Sciences