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## Technical Program

<b>Session</b>	<b>SatA01: Process control (I)</b>
<b>Date/Time</b>	Saturday, 23 May 2015 / 13:10-15:10
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<b>Chair</b>	Jinghui Qiao, <i>Shenyang University of Tech.</i>
<b>Co-Chair</b>	Xuelong Hu, <i>Nanjing University of Science and Tech.</i>

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<b>Co-Chair</b>	Jinzhi Wang, <i>Nanjing Peking Univ.</i>

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<b>Co-Chair</b>	Di Zheng, <i>Northeastern Univ.</i>

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<b>Co-Chair</b>	Li Zhou, <i>Nanjing Univ. of Information Scie. and Tech.</i>

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*Céline Casenave and Marc Perez*

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<b>Co-Chair</b>	TBA

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<b>Co-Chair</b>	Ziyang Meng, <i>Technische Universitat Munchen</i>	

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<b>Co-Chair</b>	TBA	

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<b>Co-Chair</b>	TBA

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*Xiang Chen, Yanjun Li and Ji Xiang*
- SatAIS-55 The Research and Simulation about Rare Events Based on MCMC"8; 6**  
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<b>Venue</b>	Room01
<b>Chair</b>	Degang Xu, <i>Central South Univ.</i>
<b>Co-Chair</b>	Qi Li, <i>Dalian University of Tech</i>

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*Weiming Shao and Xuemin Tian*
- 15:50 – 16:10 SatB01-2 Process Real-Time Optimization Using Clonalg Algorithm"965**  
*Yang Zhong, Chen Yang, Chen Yuchen and Shi Xuhua*

16:10 – 16:30	SatB01-3	<b>Design Method of Safe Fly-around Trajectory Based on Retangular Keep-Out-Zone""96;</b> <i>Jingjing Liang and Yongchun Xie</i>
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<b>Venue</b>	Room02
<b>Chair</b>	Jianxiang Xi, <i>High-Tech Institute of Xi'an</i>
<b>Co-Chair</b>	Haifeng Li, <i>Civil Aviation University of China</i>

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<b>Chair</b>	Xiaoshuang Chen, <i>Tongji Univ</i>
<b>Co-Chair</b>	Yanhe Jia, <i>Northeastern Univ.</i>

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<b>Venue</b>	Room04
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<b>Co-Chair</b>	Zhizhong Mao, <i>Northeastern Univ.</i>

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<b>Venue</b>	Room05
<b>Chair</b>	Jianing Zhang, <i>Beihang Univ.</i>
<b>Co-Chair</b>	Zhibin Wu, <i>Sichuan Univ.</i>

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16:50 – 17:10	SatB05-5	<b>A Decomposition based Memetic Multi-objective Algorithm for Continuous Multi-objective Optimization Problem""; 8</b> <i>Na Wang, Hongfeng Wang, Yaping Fu and Dingwei Wang</i>
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<b>Chair</b>	Chunhui Zhao, <i>Zhejiang University</i> .
<b>Co-Chair</b>	Xiukun Wei, <i>State Key Lab of Rail Traffic Control &amp; Safety Beijing Research Center of Urban Traffic Information Intelligent Sensing and Service Technologies</i>

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16:50 – 17:10	SatB06-5	<b>Research on Fault Isolation of Rail Vehicle Suspension System""; 4;</b> <i>Youran Lv, Xiukun Wei and Shuping Guo</i>
17:10 – 17:30	SatB06-6	<b>The Sensorless Control of IPMSM Based on Improved Sliding-Mode Observer""; 57</b> <i>Lisi Tian, Yang Liu, Jin Zhao, Jiajiang Sun</i>

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<b>Venue</b>	Room07
<b>Chair</b>	Xiaojie Su, <i>Chongqing Univ.</i>
<b>Co-Chair</b>	Jie Fu, <i>Chongqing Univ.</i>

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<b>Session</b>	<b>SatB08: Control Applications (I)</b>
<b>Date/Time</b>	Saturday, 23 May 2015 / 15:30-17:30
<b>Venue</b>	Room08
<b>Chair</b>	Xiaoming Cheng, <i>Beihang Univ.</i>
<b>Co-Chair</b>	Lifu Wang, <i>Northeastern Univ.at Qinhuangdao.</i>

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<b>16:10 – 16:30</b>	<b>SatB08-3</b>	<b>Research on Vector Control System of Beam Pump Used in CBM Wells""; : 9</b> <i>Bai Lijun, Wang Zhengchong, Wang Hao, Zhuang Yuan and Wang Cong</i>
<b>16:30 – 16:50</b>	<b>SatB08-4</b>	<b>Study on the Influence in Drainage System of CBM Wells Brought by Using Ascending Frequency Technology""; ; 5</b> <i>Bai Li-Jun, Jiang Ke, Liao Rong-Hui and Wu Peng</i>
<b>16:50 – 17:10</b>	<b>SatB08-5</b>	<b>The Novel Secure Communication Scheme Based on the Shape Synchronization of Three Dimension Chaos Systems ""3223</b> <i>Yuan-yuan Huang and Yin-he Wang</i>
<b>17:10 – 17:30</b>	<b>SatB08-6</b>	<b>Sampled-data Control for Offshore Steel Jacket Platform with TMD Mechanisms""3229</b> <i>Mao-Mao Meng and Bao-Lin Zhang</i>
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<b>Date/Time</b>	Saturday, 23 May 2015 / 15:30-17:30
<b>Venue</b>	Room09
<b>Chair</b>	Shangtai Jin, <i>Beijing Jiaotong Univ.</i>
<b>Co-Chair</b>	Ronghu Chi, <i>Qingdao Univ. of Science &amp; Technology.</i>

<b>15:30 – 15:50</b>	<b>SatB09-1</b>	<b>Iteration Control of Particle Size Distribution in Cobalt Oxalate Process Based on Moment Generation Network""323;</b> <i>Lv Chao, Wang Jing, Jin Qibing, Zhou Jinglin and Wu Haiyan</i>
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<b>16:50 – 17:10</b>	<b>SatB09-5</b>	<b>Data-Driven Semi-Global Discrete-Time Nonlinear Output Tracking""3266</b> <i>Yongqiang Li, Zhongsheng Hou, Yuangjing Feng and Dongwei Xu</i>

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<b>Venue</b>	Room10
<b>Chair</b>	Jianjun Gao, <i>Shanghai Jiao Tong Univ.</i>
<b>Co-Chair</b>	TBA

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<b>16:30 – 16:50</b>	<b>SatB10-4</b>	<b>Dynamic Mean-Variance Portfolio Optimization with Noshorting Constraint and Correlated Returns""328:</b> <i>Chong Wei and Jianjun Gao</i>
<b>16:50 – 17:10</b>	<b>SatB10-5</b>	<b>On Cardinality Constrained Mean-CVaR Portfolio Optimization""3296</b> <i>Runze Cheng and Jianjun Gao</i>



<b>Session</b>	<b>SatB11: Invited Session on “Iterative Learning Control Theory and Industrial Applications” (Invited Session)</b>
<b>Date/Time</b>	Saturday, 23 May 2015 / 15:30-17:30
<b>Venue</b>	Room11
<b>Chair</b>	Ronghu Chi, <i>Qingdao Univ. of Science &amp; Technology.</i>
<b>Co-Chair</b>	Shangtai Jin, <i>Beijing Jiaotong Univ.</i>

<b>15:30 – 15:50</b>	<b>SatB11-1</b>	<b>Iterative Learning Control for Discrete-time Systems with Quantized Measurements""32: 2</b> <i>Bu Xuhui, Cheng Zihao and Hou Zhongsheng</i>
<b>15:50 – 16:10</b>	<b>SatB11-2</b>	<b>Iterative Learning Control for Nonlinear MIMO Systems with Unknown Nonparametric Uncertainties and Input Saturations""32: 7</b> <i>Ruikun Zhang and Zhongsheng Hou</i>
<b>16:10 – 16:30</b>	<b>SatB11-3</b>	<b>An Adaptive Terminal Iterative Learning Control for Nonaffine Nonlinear Discrete-Time Systems""32; 2</b> <i>Chiang-Ju Chien, Ying-Chung Wang, Ronghu Chi and Dong Shen</i>
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<b>16:50 – 17:10</b>	<b>SatB11-5</b>	<b>An Iterative Learning Control Method for Nonlinear Systems with Randomly Varying Trial Lengths""3322</b> <i>Yi Liu and Shan Liu</i>
<b>17:10 – 17:30</b>	<b>SatB11-6</b>	<b>Iterative Learning Control for Distributed Parameter Switched Systems""3327</b> <i>Zhang Jianxiang, Dai Xisheng and Tian Senping</i>

<b>Session</b>	<b>SatB12: Artificial Intelligence Theory And Application (Invited Session)</b>
<b>Date/Time</b>	Saturday, 23 May 2015 / 15:30-17:30
<b>Venue</b>	Room12
<b>Chair</b>	Ying We, <i>Northeastern Univ.</i>
<b>Co-Chair</b>	TBA

<b>15:30 – 15:50</b>	<b>SatB12-1</b>	<b>HDR Imaging Based on Region Segmentation""3333</b> <i>Xinglin Hou, Haibo Luo, Peipei Zhou and Bin Hui</i>
<b>15:50 – 16:10</b>	<b>SatB12-2</b>	<b>MR Image Segmentation Algorithm Based On Non-Local Fuzzy C-Means Clustering""3339</b> <i>Sui Yuan and Wei Ying</i>
<b>16:10 – 16:30</b>	<b>SatB12-3</b>	<b>Infant Image Registration Based on Improved Mutual Strict Concave Function Measurement""3345</b> <i>Sui Yuan, Wei Ying and Zhang Jin-long</i>
<b>16:30 – 16:50</b>	<b>SatB12-4</b>	<b>Hybrid Filter Localization Algorithm Based on the Selection Mechanism""334:</b> <i>Nan Hu, Chengdong Wu, Tong Jia and Peng Ji</i>
<b>16:50 – 17:10</b>	<b>SatB12-5</b>	<b>Edge Detection Using Matched Filter""3354</b> <i>Luo Hai-bo, Jiao An-bo, Xu Ling-yun and Shao Chun-yan</i>
<b>17:10 – 17:30</b>	<b>SatB12-6</b>	<b>A Coverage Detection and Re-deployment Algorithm in 3D Directional Sensor Networks""3359</b> <i>Ji Peng, Jiang Jingqi, Wu Chengdong and Hu Nan</i>

<b>Session</b>	<b>SatB13: Academician Zhang Siying's 90th Birthday Celebration and Academic Research Discussion (II) (Invited Session)</b>
<b>Date/Time</b>	Saturday, 23 May 2015 / 15:30-17:30
<b>Venue</b>	Room13
<b>Chair</b>	Yuanwei Jin, <i>Northeastern Univ.</i>
<b>Co-Chair</b>	TBA

<b>15:30 – 15:50</b>	<b>SatB13-1</b>	<b>Event-Triggered Control for Continuous-Time Switched Systems""3365</b> <i>Xin Wang and Dan Ma</i>
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<b>16:10 – 16:30</b>	<b>SatB13-3</b>	<b>Two-machine Shop Scheduling with Two Agents and Linear Deteriorating Jobs""3376</b> <i>Xiaoli Zhao and Gongshu Wang</i>
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<b>16:50 – 17:10</b>	<b>SatB13-5</b>	<b>A Self-adaptive Model for Wind Power Prediction""3387</b> <i>Yanfeng Ge, Peng Liang, Liqun Gao and Junchang Zhai</i>
<b>17:10 – 17:30</b>	<b>SatB13-6</b>	<b>Non-Line of Sight Node Tracking Algorithm Based on Modified Kalman Filter for Wireless Sensor Networks""3392</b> <i>Liu Yun-ting, Guo Hui, Qian Xiao-long and Jing Yuan-wei</i>
<b>17:30 – 17:50</b>	<b>SatB13-7</b>	<b>Model Predictive Control Application in Dissolved Oxygen Control""3397</b> <i>Xiaoxin Liu, Yuanwei Jing, Tao Ren and Siying Zhang</i>

<b>Session</b>	<b>SatBIS: (Interactive Session)</b>
<b>Date/Time</b>	Saturday, 23 May 2015 / 15:30-17:30
<b>Venue</b>	Room14

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<b>SatBIS-02</b>	<b>Discrete-time Model Predictive Temperature Control Based on Laguerre Function for a Microwave Heating Application""33: 5</b> <i>Xueli Hu, Shan Liang, Yupeng Yuan and Qingyu Xiong</i>
<b>SatBIS-03</b>	<b>Short-term Optimal Hydrothermal Scheduling with Power Flow Constraint""33: ;</b> <i>Shuang Lin, Jian Huang, Jingrui Zhang, Qinghui Tang and Weixia Qiu</i>
<b>SatBIS-04</b>	<b>Multiplier Maximum Entropy Algorithm of Support Vector Machines""33; 7</b> <i>Le-Yuan Yu and Yong Zhang</i>
<b>SatBIS-05</b>	<b>Particle Swarm Optimization Algorithm Based on Two Swarm Evolution""3422</b> <i>Wang Li, Zhang Jianfeng, Li Xin and Sun Guoqiang</i>
<b>SatBIS-06</b>	<b>Real-time Optimal Setting Control Strategy for Complex Industrial Processes""3427</b> <i>Liping Yin, Hongyan Zhang, Li Zhou and Bochao Zheng</i>
<b>SatBIS-07</b>	<b>Optimal Output Feedback Disturbance Rejection for Underactuated Autonomous Underwater in Vertical Plane""3432</b> <i>Qing Yang, Hao Su, Gong-you Tang and De-xin Gao</i>
<b>SatBIS-08</b>	<b>Research on Force Assignment for Ground-to-Air Radar Jamming System based on Chaos Genetic Algorithms""3437</b> <i>Pan Wei, Song Ziming and Ma Lin</i>

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*Susu Guo, Zijing Zhou, Jianming Li, Qiao Xiang and Zhonghua Li*
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- SatBIS-15** **Splittable Order Planning Problem with Consideration of Changeover Costs'''3474**  
*Yang Yang and Lijun Chen*
- SatBIS-16** **Optimal Control of a Class of Warfare Dynamic Systems Based on Lanchester (2,2) Attrition Model'''3479**  
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- SatBIS-18** **Using Sliding Mode Control Method to Suppress Fuel Sloshing of a Liquid-Filled Spacecraft'''348:**  
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- SatBIS-26** **Adaptive Synchronization for a Class of Uncertain Fractional Order Chaotic Systems with Random Perturbations: Theory and Experiment'''352;**  
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- SatBIS-29** **Analysis of Direct Thrust and Aerodynamic Force Blended Control for a Saucer-Shaped UAV'''3549**  
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*Chang Ling, Jiang Nan, Jing Yuan-wei and Shan Cao-ying*
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*Wang Jianan, Zhang Aimin and Zhang Hang*
- SatBIS-36 **Research and Implementation of Automatic Question Answering System based on Ontology'''3588**  
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- SatBIS-37 **Discriminative Learning of I2C Distance for Image Classification'''3593**  
*Qiao Shuyun and Li Zilong*
- SatBIS-38 **Radar Fault Diagnosis based on Chaos Genetic Reduction Algorithm'''3598**  
*Zhang Yua, Zhao Leib and Pan Weib*
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- SatBIS-40 **An Optimization Design of Knowledge Reasoning Machine Based on the Binary Tree'''35: :**  
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- SatBIS-41 **Design and Implementation of Flame Combustion State Detection System Based on FPGA'''35; 4**  
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- SatBIS-46 **An Adaptive Quantum Genetic QoS Routing Algorithm for Wireless Sensor Networks'''3642**  
*Ming Li*
- SatBIS-47 **Research on Energy Conservation Method of the Image Compression Coding Based on Wavelet Transform for WVSNS'''3647**  
*Xu Lin and Fu Anqi*
- SatBIS-48 **An Improved Hop Size Estimation for DV-hop Localization Algorithm in Wireless Sensor Networks'''3653**  
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- SatBIS-57**     **Secure Distributed Estimation of Radio Environment Map in Hierarchical Wireless Cognitive Radio Networks'''3698**  
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- SatBIS-59**     **Analysis of a Three-dimensional Quadratic Smooth Continuous Dissipative Chaotic System with Two Equilibria'''36: 9**  
*Changchun Sun, Qicheng Xu and Ying Ai*
- SatBIS-60**     **Integration and Implementation of EDM Preparation of Nanometallic Fluid System'''36; 4**  
*Kuo-Hsiung Tseng, Juie-Long Chiu, Heng-Lin Lee, Der-Chi Tien and Yi-Syuan Kao*
- SatBIS-61**     **A Study of EDM Machine Waveform Monitoring and Nano Silver Manufacturing Process Optimization'''36; 9**  
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<b>Session</b>	<b>SunA01: Adaptive control (I)</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 10:20-12:20
<b>Venue</b>	Room01
<b>Chair</b>	Shyh-Leh Chen, <i>National Chung Cheng Univ.</i>
<b>Co-Chair</b>	Chunlei Di, <i>Beijing Institute of Tech</i>

- 10:20 – 10:40**     **SunA01-1**     **The Immersion and Invariance Adaptive Control for a Class of Linear Motor Systems with its Application'''3724**  
*Xiangbin Liu, Gaiyan Hong and Hengyu Luo*
- 10:40 – 11:00**     **SunA01-2**     **Backstepping Funnel Control for Prescribed Performance of Robotic Manipulators with Unknown Dead Zone'''372:**  
*Xiaoqing Tang, Qiang Chen, Yurong Nan and Jing Na*
- 11:00 – 11:20**     **SunA01-3**     **High Performance  $L_1$  Adaptive Control Design for Longitudinal Dynamics of Fixed-wing UAV'''3736**  
*Chunlei Di, Qingbo Geng, Qiong Hu and Wenbin Wu*
- 11:20 – 11:40**     **SunA01-4**     **A New Adaptive Congestion Control for Internet'''3742**  
*Cunwu Han, Xueting Zhang, Lei Liu, Song Bi, Dehui Sun*
- 11:40 – 12:00**     **SunA01-5**     **Nonsingular Terminal Sliding Mode Control for Approach to Non-cooperative Satellite'''3746**  
*Hailong Liu, Xiaoping Shi, Long Li and Jing Yang*
- 12:00 – 12:20**     **SunA01-6**     **Imbalance Compensation for an AMB System with Adaptive Immersion & Invariance Control'''3752**  
*Shyh-Leh Chen and Shyu-Yu Lin*

<b>Session</b>	<b>SunA02: Robust control (I)</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 10:20-12:20
<b>Venue</b>	Room02
<b>Chair</b>	Jiawei Tao, Tsinghua Univ.
<b>Co-Chair</b>	Pan Wang, <i>Department of Automation Tsinghua Univ.</i>

10:20 – 10:40	SunA02-1	<b>Influence of Different Color Space on digital Watermarking for Anti-counterfeiting Printed Images""3757</b> <i>Yingzhe Xiao, Wen Zhang and Yong Xie</i>
10:40 – 11:00	SunA02-2	<b><math>H_{\infty}</math> Filtering Design for Straightening Bending System of Elevator Guide Rail with Time-Delay and Disturbance""3762</b> <i>Jianhong Sun, Xiaoying Yu, Jiangwei Qiu and Pengfei Guo</i>
11:00 – 11:20	SunA02-3	<b>Sliding Mode Generalized Impedance Control Design for Manipulator Robots Based on Genetic Algorithm""3768</b> <i>Khalid Bouabaz and Qidan Zhu</i>
11:20 – 11:40	SunA02-4	<b>Matlab GUI-Based Simulation Platform Design of Flexible Satellite Attitude Control and Vibration Suppression""3774</b> <i>Jiawei Tao, Tao Zhang, Wei Ren and Guanchao Han</i>
11:40 – 12:00	SunA02-5	<b>Attitude Stabilization of Flexible Satellite Subject to External Disturbance and Actuator Constraint""377:</b> <i>Aihua Zhang, Haitao Meng, Zhiqiang Zhang and Xing Huo</i>
12:00 – 12:20	SunA02-6	<b>Robust Compensation Controller for Turbofan Engine with Multi-operation Condition""3786</b> <i>Wang Pan, Cheng Nong and Li Qin</i>

<b>Session</b>	<b>SunA03: Optimal Control and Optimization (III)</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 10:20-12:20
<b>Venue</b>	Room03
<b>Chair</b>	Lifu Du, Beijing Aerospace Automatic Control Institute
<b>Co-Chair</b>	Chao Xu, <i>Zhejiang Univ.</i>

10:20 – 10:40	SunA03-1	<b>Fuel-Optimal and Low-Thrust Rendezvous in Elliptical Orbits with Fixed Terminal-Approach Direction""3792</b> <i>Lifu Du, Wanwei Huang, Xiaodong Liu and Yang Li</i>
10:40 – 11:00	SunA03-2	<b>Optimal Control Problem for Rectangular Descriptor Systems via Dynamic Output Feedback""3799</b> <i>Lei Liu, Cunwu Han, Song Bi and Dehui Sun</i>
11:00 – 11:20	SunA03-3	<b><math>H_{\infty}</math> Performance Analysis and Synthesis of Singular Delta Operator Systems""37: 5</b> <i>Lin Liu, Xin-zhuang Dong and Chun-ming Qi</i>
11:20 – 11:40	SunA03-4	<b>A Gradient Optimization based PID Tuning Approach on Quadrotor""37: :</b> <i>Jiangcheng Zhu, Endong Liu, Shan Guo and Chao Xu</i>
11:40 – 12:00	SunA03-5	<b>Optimal Control Strategies in a Quitting Smoking Model with Age Structure""37; 6</b> <i>Xun-Yang Wang, Wei-jun Ma, Shuang-hong Ma and Hai-feng Huo</i>
12:00 – 12:20	SunA03-6	<b>Upper Limb Rehabilitation Trajectory Optimization Based on Artificial Immune Genetic Algorithm""37; :</b>

<b>Session</b>	<b>SunA04: Nonlinear Systems (III)</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 10:20-12:20
<b>Venue</b>	Room04
<b>Chair</b>	Chunyue Song, Zhejiang Univ.
<b>Co-Chair</b>	Chenghui Zhang, Shandong Univ.

<b>10:20 – 10:40</b>	<b>SunA04-1</b>	<b>An Integrated State Space Partition and Optimal Control Method of Multi-model for Nonlinear Systems with State Estimation""3826</b> <i>Bingwei Xia, Chunyue Song and Bing Wu</i>
<b>10:40 – 11:00</b>	<b>SunA04-2</b>	<b>Adaptive State Estimation for a Class of System with Nonlinear Parametrization""3832</b> <i>Le Chang, Chenghui Zhang, Xiandong Chen and Xianfu Zhang</i>
<b>11:00 – 11:20</b>	<b>SunA04-3</b>	<b>Characteristics Analysis of Nonstationary Signals Based on Multifractal Detrended Fluctuation Analysis Method""3836</b> <i>Chunling Fan and Li Li</i>
<b>11:20 – 11:40</b>	<b>SunA04-4</b>	<b>Chaos Control in the Buck converter by Using Active Disturbance Rejection Control Technique""383;</b> <i>Jia Meimei and Zhang Guoshan</i>
<b>11:40 – 12:00</b>	<b>SunA04-5</b>	<b>Robust Adaptive Feedback Linearization Control for a Class of MIMO Uncertain Nonlinear Systems""3846</b> <i>Shi-tie Zhao, Xian-wen Gao and Chang-jie Che</i>
<b>12:00 – 12:20</b>	<b>SunA04-6</b>	<b>On Performance Evaluation Method and Optimal Control for Vertical Dynamic of a Fast Ferry""3852</b> <i>Liu Yan-wen and Zhao Zheng</i>

<b>Session</b>	<b>SunA05: Decision Supporting System and Production Planning and Scheduling (I)</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 10:20-12:20
<b>Venue</b>	Room05
<b>Chair</b>	Shoutao Li, Jilin Univ.
<b>Co-Chair</b>	Yu Zhou, Changchun Architecture and Civilengineering Inner Mongolia Univ.

<b>10:20 – 10:40</b>	<b>SunA05-1</b>	<b>A Genetics Algorithm for Solving Job-Shop Scheduling Problems in FMS""3856</b> <i>Shoutao Li, Wei Jiang and Wei Tian</i>
<b>10:40 – 11:00</b>	<b>SunA05-2</b>	<b>Item Health Status Monitoring with Control Chart""3862</b> <i>Yu Zhou</i>
<b>11:00 – 11:20</b>	<b>SunA05-3</b>	<b>Subdividing Trade Area of Cigarette Retail Stores Based on Big Data Analytics""3867</b> <i>Li Yong and Li Qianye</i>
<b>11:20 – 11:40</b>	<b>SunA05-4</b>	<b>Research on the Multi-objective Optimized Model of Power Generation Dispatching Based on Low-carbon Economy and energy-conservation""3873</b> <i>Jie Zhang and Yang Lei</i>
<b>11:40 – 12:00</b>	<b>SunA05-5</b>	<b>Identify Influence of Organizational Culture from External Factors with Fuzzy AHP Approach""3878</b>

- 12:00 – 12:20 SunA05-6 Capacity Assignment of the Production Lines with Consideration of Equilibrium Requirement in Cold Rolling Area'''3884**  
*Bo Zhang and Yang Yang*

<b>Session</b>	<b>SunA06: Fault Diagnosis and Fault-Tolerant Control (II)</b>	
<b>Date/Time</b>	Sunday, 24 May 2015 / 10:20-12:20	
<b>Venue</b>	Room06	
<b>Chair</b>	Hao Yang, Nanjing Univ. of Aeronautics and Astronautics	
<b>Co-Chair</b>	Xinxin Gu, <i>Nanjing Univ. of Aeronautics and Astronautics</i>	
<b>10:20 – 10:40</b>	<b>SunA06-1</b>	<b>Extraction of Week Impulse Fault Signal Based on Sparse Decomposition'''3888</b> <i>Yan Baokang, Zhou Fengxing and Lu Shaowu</i>
<b>10:40 – 11:00</b>	<b>SunA06-2</b>	<b>Fault Prediction Method Based on SVR of Improved PSO'''3893</b> <i>Jifeng Zou, Chenlong Li, Qing Yang and Qiao Li</i>
<b>11:00 – 11:20</b>	<b>SunA06-3</b>	<b>Multiple-model Based Fault Diagnosis for Actuators of Rail Vehicle Suspension'''3898</b> <i>Xinxin Gu, Zehui Mao, Bin Jiang and Yanhao Zhan</i>
<b>11:20 – 11:40</b>	<b>SunA06-4</b>	<b>Fault Recoverability Analysis of Nonlinear Systems: A Piecewise Affine System Approach'''38: 4</b> <i>Wenjing Ren, Hao Yang and Bin Jiang</i>
<b>11:40 – 12:00</b>	<b>SunA06-5</b>	<b>Multi-step Ahead Forecasting for Fault Prognosis Using Hidden Markov Model'''38: :</b> <i>Lili Cao, Huajing Fang and Xiaoyong Liu</i>
<b>12:00 – 12:20</b>	<b>SunA06-6</b>	<b>Initial Fault Feature Extraction Via Sparse Representation Over Learned Dictionary'''38: 5</b> <i>Yu Fa-jun, Zhou Feng-xing and Yan Bao-kang</i>

<b>Session</b>	<b>SunA07: Neural Networks (I)</b>	
<b>Date/Time</b>	Sunday, 24 May 2015 / 10:20-12:20	
<b>Venue</b>	Room07	
<b>Chair</b>	Lan Shi, Northeastern Univ.	
<b>Co-Chair</b>	Xiao Wang, <i>Northeastern Univ.</i>	
<b>10:20 – 10:40</b>	<b>SunA07-1</b>	<b>An Improved Extreme Learning Algorithm Based on Truncated Singular Value Decomposition'''38; 9</b> <i>Jianhui Wang, Xiao Wang, Shusheng Gu, Wang Liao and Xiaoke Fang</i>
<b>10:40 – 11:00</b>	<b>SunA07-2</b>	<b>Chebyshev-Polynomial Neuronet, WASD Algorithm and World Population Prediction from Past 10000-year Rough Data'''3924</b> <i>Dongsheng Guo, Yunong Zhang, Liangyu He, Keke Zhai, Hongzhou Tan</i>
<b>11:00 – 11:20</b>	<b>SunA07-3</b>	<b>Exponential Synchronization for Coupled Neural Networks with Time-varying Delay under Single Impulsive Controller'''392:</b> <i>Ze Tang, Ju H. Park and H.Y. Jung</i>
<b>11:20 – 11:40</b>	<b>SunA07-4</b>	<b>New Formula of 4-Instant g-Square Finite Difference (4IgSFD) Applied to Time-Variant Matrix Inversion'''3936</b>



		<i>Yunong Zhang, Jian Li, Yang Shi, Mingzhi Mao and Hongzhou Tan</i>
11:40 – 12:00	SunA07-5	<b>PCA-Based PSO-BP Neural Network Optimization Algorithm""3942</b> <i>Lan Shi, Xu Tang and Jianhui Lv</i>
12:00 – 12:20	SunA07-6	<b>Adaptive Synchronization of Delayed T-S Type Fuzzy Neural Networks""3948</b> <i>Shunyuan Xiao, Yijun Zhang and Baoyong Zhang</i>
12:20 – 12:40	SunA07-7	<b>Finite-Time Synchronization of Memristor-based Neural Networks""3954</b> <i>Haibo Bao and Ju H. Park</i>

<b>Session</b>	<b>SunA08: Control Applications (II)</b>	
<b>Date/Time</b>	Sunday, 24 May 2015 / 10:20-12:20	
<b>Venue</b>	Room08	
<b>Chair</b>	Xi Lu, Beihang Univ.	
<b>Co-Chair</b>	Yiru Zhang, Xiamen Univ.	

10:20 – 10:40	SunA08-1	<b>The Model Predictive Current-controlled Method Based on Observer Identification""3958</b> <i>Li Po and Zhang Yiru</i>
10:40 – 11:00	SunA08-2	<b>Closed Loop Slip Control Strategy for Shifting Clutches in Hydraulic Automatic Transmission""3963</b> <i>Xi Lu, Zhenkun Dai, Qiang Li, Weidong Fan</i>
11:00 – 11:20	SunA08-3	<b>Study on Adaptive Nonlinear Control of Reversible Unit""3969</b> <i>Zuo Yan, Chang Li, Ding Tan, Huang Zheng-Jun and Liu Chang-Yu</i>
11:20 – 11:40	SunA08-4	<b>Control System Design of Directional Fire-fighting Monitor Based on Video""3975</b> <i>Zhonghai Li and Jianwei Li</i>
11:40 – 12:00	SunA08-5	<b>Control and Bifurcation Theoretic Analysis of Gas-Evolution Oscillators ""3979</b> <i>Gowtham Venkatraman and Mythra Varun B.S.</i>
12:00 – 12:20	SunA08-6	<b>Stability and Bifurcation Analysis of a Pupillary Light Reflex Model""3987</b> <i>Janarthanan Rajendran, Sivashyam Sundar Arutprakasam and Amit M Warriar</i>

<b>Session</b>	<b>SunA09: Motion Control (III) (Chinese)</b>	
<b>Date/Time</b>	Sunday, 24 May 2015 / 10:20-12:20	
<b>Venue</b>	Room09	
<b>Chair</b>	Shihua Li, Southeast Univ.	
<b>Co-Chair</b>	Qian Zhao, National Univ.of Defense Tech.	

10:20 – 10:40	SunA09-1	<b>Repetitive Learning Finite-Time Control""3994</b> <i>Sun Mingxuan, Qian Yazhong and Chen JianYong</i>
10:40 – 11:00	SunA09-2	<b>Method of Eliminating Velocity Ripple in Permanent Magnet Synchronous Motor Based on Internal Model Principle""399:</b> <i>Sun Zhi-yuan and Li Shi-hua</i>
11:00 – 11:20	SunA09-3	<b>Optimization of Sensorless Induction Motor Speed Regulation System based on Quantum Genetic Algorithm""39: 6</b> <i>Gu Meihua, Xu Haifeng and Lin Jinxing</i>
11:20 – 11:40	SunA09-4	<b>Trajectory Tracking Control for a Quad-rotor UAV Based on Integrator Backstepping""39; 2</b>

11:40 – 12:00	SunA09-5	<i>Xue-min Yuan, Ke-cai Cao, Tao Zhang and Hai-sheng Hu</i> <b>Saturation Avoidance Method for Control Moment Gyros during Spacecraft Attitude Maneuvers'''3: 8</b> <i>Zhao Qian, Huang Haibing and Tang Guojin</i>
12:00 – 12:20	SunA09-6	<b>Repetitive Controller Design for Testing Table Systems Based on Angular Position Data Storage'''3: 24</b> <i>Xin Huo, Xingang Tong, Zimo Xu and Xiaorou Zhang</i>

Session	SunA10: Data Processing (I)	
Date/Time	Sunday, 24 May 2015 / 10:20-12:20	
Venue	Room10	
Chair	Yingyuan Chen, Tianjin Univ.	
Co-Chair	Jinhua Fan, <i>Taiyuan Satellite Launch Center</i>	
10:20 – 10:40	SunA10-1	<b>Compression Processing Estimation Method for Time Series Big Data'''3: 29</b> <i>Miao Bei-bei and Jin Xue-bo</i>
10:40 – 11:00	SunA10-2	<b>Data Pre-Processing of Inertial Measurement Unit Based on Abnormity Analysis'''3: 34</b> <i>Jinhua Fan, Jianying Song, Jie Peng and Xianfeng Guo</i>
11:00 – 11:20	SunA10-3	<b>Binary Classification With Noise via Fuzzy Weighted Least Squares Twin Support Vector Machine'''3: 39</b> <i>Juntao Li, Yimin Cao, Yadi Wang, Xiaoxia Mu, Liuyuan Chen and Huimin Xiao</i>
11:20 – 11:40	SunA10-4	<b>Power Spectral Density and High Order Bispectral Analysis of Alzheimer's EEG'''3: 44</b> <i>Ruofan Wang, Jiang Wang, Huiyan Li and Yingyuan Chen</i>
11:40 – 12:00	SunA10-5	<b>A New Method on Finding Optimal Centers for Improving K-means Algorithm'''3: 49</b> <i>Jie Zhang, Jianrui Dong and Yiyong Xiao</i>
12:00 – 12:20	SunA10-6	<b>Dynamic Forecasting for Vibration of CNC Lathe Using Grey Bootstrap Model'''3: 55</b> <i>Tao Jiang-ping and Lv Tao-mei</i>

Session	SunA11: Robot Sensing and Data Fusion	
Date/Time	Sunday, 24 May 2015 / 10:20-12:20	
Venue	Room11	
Chair	Chao Xu, Zhejiang Univ.	
Co-Chair	Ximing Zhang, <i>Northwestern Polytechnical Univ.</i>	
10:20 – 10:40	SunA11-1	<b>Bi-objective Optimization for Robust RGB-D Visual Odometry'''3: 59</b> <i>Tao Han, Chao Xu, Ryan Loxton and Lei Xie</i>
10:40 – 11:00	SunA11-2	<b>Compressive Tracking Using Incremental LS-SVM'''3: 67</b> <i>Ximing Zhang and Mingang Wang</i>
11:00 – 11:20	SunA11-3	<b>Adaptive Square-Root CKF with Application to DR/LBL integrated Heading Estimation for HOV'''3: 73</b> <i>Kaizhou Liu, Ben Liu, Yanyan Wang, Yang Zhao, Shengguo Cui and Xisheng Feng</i>
11:20 – 11:40	SunA11-4	<b>Dynamic Master-Slave Distributed Algorithm for Cooperative Localization with Low Computational Cost'''3: 78</b>

		<i>Lei gang Wang, Tao Zhang and Zheng Zeng</i>
11:40 – 12:00	SunA11-5	<b>Improved SVD Matching Based On Delaunay Triangulation and Belief Propagation""3: 83</b> <i>Jianfang Dou, Qin Qin, Zimei Tu, Xishuai Peng, Yuanxiang Li, Lijun Li and Fangquan Shen</i>
12:00 – 12:20	SunA11-6	<b>An Improved Minimum Spanning Tree Stereo Matching Algorithm""3: 88</b> <i>Zhigang Liu, Keyu Li and Xiaoxue Zhang</i>

<b>Session</b>	<b>SunA12: Electric Vehicles and Intelligent Transportation</b>	
<b>Date/Time</b>	Sunday, 24 May 2015 / 10:20-12:20	
<b>Venue</b>	Room12	
<b>Chair</b>	Wenlong Yao, Dalian Maritime Univ.	
<b>Co-Chair</b>	Hong Chen, Jilin Univ.	
10:20 – 10:40	SunA12-1	<b>Field Oriented Control for Permanent Magnet Synchronous Motor Based on DSP Experimental Platform""3: 92</b> <i>Xiangnan Zhang, Xiaohua Xie and Rongzi Yao</i>
10:40 – 11:00	SunA12-2	<b>Yaw Stability Control for in-Wheel-Motored Electric Vehicle with a Fuzzy PID Method""3: 98</b> <i>Hao Zhou, Hong Chen, Bingtao Ren and Haiyan Zhao</i>
11:00 – 11:20	SunA12-3	<b>Speed Sensorless Vector Control of Marine Podded Propulsion Motor based on Strong Track Filter""3: : 4</b> <i>Yao Wen-long, Liu Yuan, Yin Zhi-fei, Zeng Dong and Li Hui-yang</i>
11:20 – 11:40	SunA12-4	<b>Real-time Vehicle Detection using Haar-SURF Mixed Features and Gentle AdaBoost Classifier""3: : :</b> <i>Sun Shujuan, Xu Zhize, Wang Xingang, Huang Guan, Wu Wenqi and Xu De</i>
11:40 – 12:00	SunA12-5	<b>Performance Analysis of Broadband Access for Vehicles Based on Dedicated Optimized IEEE 802.11p Protocol""3: ; 7</b> <i>Nai Wei, Zhang Fangqi, Yu Yi and Dong Decun</i>
12:00 – 12:20	SunA12-6	<b>Tracking Control of Wheel Slip Ratio with Velocity Estimation for Vehicle Anti-lock Braking System""3; 22</b> <i>Haiping Du, Weihua Li and Yongjun Zhang</i>

<b>Session</b>	<b>SunA13: Academician Zhang Siying's 90th Birthday Celebration and Academic Research Discussion (III) (Invited Session)</b>	
<b>Date/Time</b>	Sunday, 24 May 2015 / 10:20-12:40	
<b>Venue</b>	Room13	
<b>Chair</b>	TBA	
<b>Co-Chair</b>	TBA	
10:20 – 10:40	SunA13-1	<b>The Minimax Control Based on T-S Model Applied to AQM""3; 28</b> <i>Cao Yu, Jing Yuanwei, Wang Jingyang and Wang Xuan</i>
10:40 – 11:00	SunA13-2	<b>Global State Feedback Stabilization of Nonlinear High-Order Feedforward Systems""3; 32</b>

		<i>Xinghui Zhang</i>
11:00 – 11:20	SunA13-3	<b>Output Feedback Control of A Class of Switched Stochastic Nonlinear Time-delay Systems""3; 38</b> <i>Liang Liu, Xuelian Li and Yifan Zhang</i>
11:20 – 11:40	SunA13-4	<b>The Speed Control of a Direct-Drive PMSG-Based Wind Energy Conversion System""3; 43</b> <i>Guo Jianqiang and Wang Xiangdong</i>
11:40 – 12:00	SunA13-5	<b>Fuzzy Logic Control for Optimal Rotating Speed Tracking of Doubly Fed Induction Generator""3; 48</b> <i>Kang Yan, Xiangdong Wang and Ligang Huang</i>
12:00 – 12:20	SunA13-6	<b>The Direct Power Control with Constant Switching Frequency Based on a Triangular Waveform Comparator of Doubly Fed Induction Generator""3; 53</b> <i>Wang Jing and Wang Xiangdong</i>
12:20 – 12:40	SunA13-7	<b>Analysis of a Local Routing in Scale-free Networks""3; 58</b> <i>Dan Wang and Beilei Li</i>

<b>Session</b>	<b>SunAIS: Interactive Session</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 10:20-12:20
<b>Venue</b>	Room14

<b>SunAIS-01</b>	<b>Optimization Design of the Ship-borne Warning Helicopter Guided Missile Attack Search Parameters Optimization""3; 62</b> <i>Zhang Lin and Ma Liang</i>
<b>SunAIS-02</b>	<b>A Method of QoS Deviation Monitoring for Web Services""3; 68</b> <i>Chen Bin-Bin, Fu Xiao-Dong, Liu Li, Gao Tian-Yu and Ge Jia</i>
<b>SunAIS-03</b>	<b>Measuring Approach of Complex Service Utility""3; 73</b> <i>Ren Jinluan, Li Bo, Zhao Liping and Liu Lihua</i>
<b>SunAIS-04</b>	<b>Repair Level Analysis Based on an Improved Grey Situation Decision Approach""3; 79</b> <i>Xu Liuqing, Yang Jun and Guo Lili</i>
<b>SunAIS-05</b>	<b>Hidden Functional Failure Detection Model of Electronic Equipment""3; 82</b> <i>Jiang Xin-liang, Zhao Jian-min, Li Zhi-wei and Zhang Xiu-ping</i>
<b>SunAIS-06</b>	<b>The Fairness of Patient Routing Allocation Policy with Heterogeneous Servers in Outpatient Department""3; 87</b> <i>Dan Chen, Huabo Zhu and Xinggang Luo</i>
<b>SunAIS-07</b>	<b>Hybrid Multi-Objective Genetic Algorithm for Multi-Objective Optimization Problems""3; 92</b> <i>Song Zhang, Hongfeng Wang, Di Yang and Min Huang</i>
<b>SunAIS-08</b>	<b>An Efficient Co-evolutionary Particle Swarm Optimizer for Solving Multi-objective Optimization Problems""3; 97</b> <i>Daqing Wu, Li Liu, XiangJian Gong and Li Deng</i>
<b>SunAIS-09</b>	<b>Improved Interval indexed Formulation Based Heuristic Algorithm for Scheduling Problem""3; : 2</b> <i>Yong Ming Wang and Hong Li Yin</i>
<b>SunAIS-10</b>	<b>An Partial Backlogging Inventory Model for Non-Instantaneous Deteriorating Items with Special Stock-Dependent Demand""3; : 5</b> <i>Wenyi Du, Wei Gao and Xiaowo Tang</i>
<b>SunAIS-11</b>	<b>Research on Supply Chain Option Buyback Contract Based on Capital Gains""3; : :</b> <i>Xiaojing-Liu, Xingzheng-Ai and Xiaowo-Tang</i>
<b>SunAIS-12</b>	<b>A Two-Phase Method Based on Markov and TOPSIS for Evaluating Project Risk Management Strategies""3; ; 6</b>

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*Zhang Meng and Liu Ya-fen*
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*Wei Ni and Xiaoli Wang*
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*Yuanhua Du and Shouming Zhong*
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- SunAIS-52 Research of the Win-win Credit Mechanism Based on Game Model""4433**  
*Wang Yue, Bai Yu and Su Jian*
- SunAIS-53 An Anti-Consensus Problem of a Class of Dynamic Multi-Agent Systems with Sociological Background""4437**  
*Cai Ning, Xue Lin, Ayibu Abudula, Chen Yan and Tian Chang-Hui*
- SunAIS-54 Study on Combination of Some Methods to Determinate the Weight Based on Grey Relational Analysis""4442**  
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SunAIS-59	<b>Research on City Cultural and Creative Industries Development Evaluation Based on Entropy-weighting TOPSIS""446:</b> <i>Jialin Fu, Yumei Wang and Yujie Sun</i>
SunAIS-60	<b>Excessive Reaction, Noise and Asset Price Bubble""4475</b> <i>Hu Wen-xiu, Jia Li-na, Niu Jing and Liu Gang</i>

<b>Session</b>	<b>SunB01: Adaptive control (II)</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 13:20-15:20
<b>Venue</b>	Room01
<b>Chair</b>	Jiapeng Zhong, <i>Harbin Institute of Tech</i>
<b>Co-Chair</b>	Zhi Liu, <i>Guangdong University of Tech.</i>

<b>13:20 – 13:40</b>	<b>SunB01-1</b>	<b>Visual Control for Manipulator with Dead-zone Nonlinearity Constraint""447;</b> <i>Fujie Wang, Zhi Liu and Yun Zhang</i>
<b>13:40 – 14:00</b>	<b>SunB01-2</b>	<b>Adaptive Flight Control for Extended Trim State Following""4487</b> <i>Jiapeng Zhong, Guoxing Yi and Changhong Wang</i>
<b>14:00 – 14:20</b>	<b>SunB01-3</b>	<b>An Adaptive Predictive Control Strategy Based on Laguerre Function Sequence for Chopper Cascade Speed Control System""4492</b> <i>Yang Qiyu, Zhang Xia, Li Ming and Wang Qinruo</i>
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<b>14:40 – 15:00</b>	<b>SunB01-5</b>	<b>Tracking Control of Nonaffine Systems with Prescribed Transient Performance""44: 3</b> <i>Zhixi Shen, Tao Zhang and Yongduan Song</i>
<b>15:00 – 15:20</b>	<b>SunB01-6</b>	<b>Self-adaption Harris Corner Detection Algorithm Based on Image Contrast Area""44: 9</b> <i>Sun Liang, Wang Shuangqing, Xing Jianchun and Wang Shiqiang</i>

<b>Session</b>	<b>SunB02: Robust control (II) (Chinese)</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 13:20-15:20
<b>Venue</b>	Room02
<b>Chair</b>	Yongqiang Qi, <i>China University of Mining and Tech</i>
<b>Co-Chair</b>	Lin Zhao, <i>Beihang Univ.</i>

<b>13:20 – 13:40</b>	<b>SunB02-1</b>	<b>Robust Control for Constant Thrust Rendezvous under Thrust Failure""44; 3</b> <i>Yongqiang Qi and Yingmin Jia</i>
<b>13:40 – 14:00</b>	<b>SunB02-2</b>	<b>Robust Velocity and Height Control for Uncertain Hypersonic Vehicles""44; 9</b> <i>Yu Lingyi, Li Zhaoying, Liu Hao and Yu Yao</i>
<b>14:00 – 14:20</b>	<b>SunB02-3</b>	<b>Adaptive Output Feedback Tracking Control for 6 DOF Spacecraft Formation Flying Under Actuator Faults""4525</b> <i>Lin Zhao, Yingmin Jia, Wei Huo and Changqing Chen</i>
<b>14:20 – 14:40</b>	<b>SunB02-4</b>	<b>Globally Asymptotic Stability for Neural Networks with Time-Varying Delay Via Delay-Decomposition Approach""452;</b> <i>Shen-Ping Xiao, Lin-Xing Xu, Gang Chen and Ling-Shuang Kong</i>
<b>14:40 – 15:00</b>	<b>SunB02-5</b>	<b>Design of Robust <math>H_{\infty}</math> PI Controller for Hydro Turbine Speed Governor""4536</b> <i>Qinghai Heng, Jing Lu, Xiaoshan Lu and Huan Cao</i>
<b>15:00 – 15:20</b>	<b>SunB02-6</b>	<b>Finite-Time Stability of Linear Time-Varying Singular Impulsive Systems with Variable Disturbance""453;</b> <i>Yunxu Tong, Guihua Li, Tingting Liu and Xiaomin Liu</i>

<b>Session</b>	<b>SunB03: Optimal Control and Optimization (IV)</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 13:20-15:20
<b>Venue</b>	Room03
<b>Chair</b>	Xu Zheng, <i>Harbin Institute of Tech.</i>
<b>Co-Chair</b>	Yijiang Du, <i>Beihang Univ.</i>

<b>13:20 – 13:40</b>	<b>SunB03-1</b>	<b>An Ascent Iterative Guidance Algorithm for Solid Rocket Concerned with Multiconstraints""4546</b> <i>Wu-Xing Jing, Xu Zheng, Peng-Xin Wei and Jia Guo</i>
<b>13:40 – 14:00</b>	<b>SunB03-2</b>	<b>Thruster Pulse Optimization for Momentum Desaturation of Control Moment Gyros Based on Genetic Algorithm""4552</b> <i>Du Yijiang, Wu Zhong and Wang Zhen</i>
<b>14:00 – 14:20</b>	<b>SunB03-3</b>	<b>Modern Power System Stabilizer Approaches""4558</b> <i>Jožef Ritonja</i>
<b>14:20 – 14:40</b>	<b>SunB03-4</b>	<b>Optimal Orbit Control Strategy Design for Low Energy Moon Return""4564</b> <i>Liu Yue, Qian Yingjing, Ma Lin and Jing Wuxing</i>
<b>14:40 – 15:00</b>	<b>SunB03-5</b>	<b>Control Model for Optimizing the Performance of Weapons and Equipment Acquisition""4569</b> <i>Yin Tiehong, Xie Wenxiu and Li Zhongguang</i>
<b>15:00 – 15:20</b>	<b>SunB03-6</b>	<b>Multi-objective Optimization Based Fractional Order Model-free Controller for Boiler Drum System""4574</b> <i>Dazi Li and Ye Li</i>



<b>Session</b>	<b>SunB04: Nonlinear systems (Chinese)</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 13:20-15:20
<b>Venue</b>	Room04
<b>Chair</b>	Bin Zhou, <i>Harbin Institute of Tech.</i>
<b>Co-Chair</b>	Yijiang Du, <i>Northeastern Univ. at Qinhuangdao</i>

<b>13:20 – 13:40</b>	<b>SunB04-1</b>	<b>On Lyapunov Inequality Characterizations and LMIs Based Approaches to the <math>L_\infty(L_\infty)</math> and <math>L_2(L_2)</math> Semi-Global Stabilization""4579</b> <i>Bin Zhou</i>
<b>13:40 – 14:00</b>	<b>SunB04-2</b>	<b><math>H_\infty</math> Filtering for Lipschitz Nonlinear Singularly Perturbed Descriptor Systems""4585</b> <i>Lei Zhou, Shuijing Liu and Xiaoqing Xiao</i>
<b>14:00 – 14:20</b>	<b>SunB04-3</b>	<b>Effects of Forcing Frequency on Dynamics of Subcritical Hopf Bifurcation Under Periodic Perturbation""458;</b> <i>Dong Wanjing and Wang Yong</i>
<b>14:20 – 14:40</b>	<b>SunB04-4</b>	<b>Global Sampled-Data Stabilization of a Class of Nonlinear Systems""4597</b> <i>Daoyuan Zhang and Yanjun Shen</i>
<b>14:40 – 15:00</b>	<b>SunB04-5</b>	<b>Improved Polynomial Arithmetic Algorithm Implementations""45: 2</b> <i>Yan Shengfeng, Liu Jianbo, Dong Anwei and Wang Lin</i>
<b>15:00 – 15:20</b>	<b>SunB04-6</b>	<b>Impulsive Practical Synchronization of Hyperchaotic Systems with Uncertain Parameters""45: 6</b> <i>Jie Lin, Jianping Cai and Mihua Ma</i>

<b>Session</b>	<b>SunB05: Hybrid systems</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 13:20-15:20
<b>Venue</b>	Room05
<b>Chair</b>	Jiao Liu, <i>Dalian Univ. of Tech.</i>
<b>Co-Chair</b>	Shun Wang, <i>Harbin Institute of Tech.</i>

<b>13:20 – 13:40</b>	<b>SunB05-1</b>	<b>Lyapunov Functional Method for Exponential Stability of Impulsive Discrete Systems with Time-Delay""P 1C</b> <i>Kexue Zhang and Xinzhi Liu</i>
<b>13:40 – 14:00</b>	<b>SunB05-2</b>	<b>Stochastic Stability and Stabilization for Positive Markov Jump Systems with Distributed Time Delay and Incomplete Known Transition Rates""45: ;</b> <i>Liu Jiao, He Jianjun, Lian Jie and Zhuang Yan</i>
<b>14:00 – 14:20</b>	<b>SunB05-3</b>	<b>The Research and Optimization of Hybrid System MLD Model Parameters Based on HYSDEL""45; 7</b> <i>Xuelai Sheng and Yu-Hong Wang</i>
<b>14:20 – 14:40</b>	<b>SunB05-4</b>	<b>Filter Design for Markov Jump Systems with Time-delay Based on Passive Analysis""4623</b> <i>Dong Yu, Chengcheng Gong and Guici Chen</i>
<b>14:40 – 15:00</b>	<b>SunB05-5</b>	<b>Finite-Time Boundedness and Weighted <math>L_2</math>-Gain Analysis for Uncertain Switched Linear Systems with both Stable and Unstable Time-Delay Subsystems""4628</b> <i>Zhiwei Yu, Shun Wang, Ming Zeng and Yuanhong Liu</i>
<b>15:00 – 15:20</b>	<b>SunB05-6</b>	<b>Finite-Time Stability for Positive Markovian Jump Systems with Partly Known Transition Rates""4634</b> <i>Jiyang Wang, Wenhai Qi and Xianwen Gao</i>

<b>Session</b>	<b>SunB06: Fault Diagnosis and Fault-Tolerant Control (III)</b>	
<b>Date/Time</b>	Sunday, 24 May 2015 / 13:20-15:20	
<b>Venue</b>	Room06	
<b>Chair</b>	Xueqian Wang, <i>Tsinghua Univ.</i>	
<b>Co-Chair</b>	Xuejin Gao, <i>Beijing Univ. of Tech.</i>	
<b>13:20 – 13:40</b>	<b>SunB06-1</b>	<b>Application of Local Outlier Factor Method and Back-Propagation Neural Network for Steel Plates Fault Diagnosis""4638</b> <i>Zeqi Zhao, Jun Yang, Weining Lu and Xueqian Wang</i>
<b>13:40 – 14:00</b>	<b>SunB06-2</b>	<b>Chiller Gradual Fault Detection Based on Independent Component Analysis""4644</b> <i>Pu Wang, Jiaojiao Xin, Xuejin Gao and Yachao Zhang</i>
<b>14:00 – 14:20</b>	<b>SunB06-3</b>	<b>A Novel Feature Extraction Method using Deep Neural Network for Rolling Bearing Fault Diagnosis""4649</b> <i>Weining Lu, Xueqian Wang, Chunchun Yang and Tao Zhang</i>
<b>14:20 – 14:40</b>	<b>SunB06-4</b>	<b>Lifetime Prognosis of Blowout Preventer Valve for Offshore Platform Based on Wiener Process""4654</b> <i>Liu Xiu, Li Juan, Chen Xiu-Rong, Si Xiao-Sheng, Yue Dan-Song and Yang Xue</i>
<b>14:40 – 15:00</b>	<b>SunB06-5</b>	<b>An Observer Based Fault Detection and Isolation in Quadruple-tank Process""4659</b> <i>Zahra Gharaee and Mahdi Aliyari Shoorehdeli</i>
<b>15:00 – 15:20</b>	<b>SunB06-6</b>	<b>A Travelling Wave Fault Location Combined Method Based on Fault Characteristic Frequency Band""4665</b> <i>Ning Yi, Wang DaZhi, Jiang XueChen and Liu Zhen</i>
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<b>Date/Time</b>	Sunday, 24 May 2015 / 13:20-15:20	
<b>Venue</b>	Room07	
<b>Chair</b>	Gang Chen, <i>Nanjing Univ. of Post and Telecommunications</i>	
<b>Co-Chair</b>	Qingyang Xu, <i>Shandong Univ.</i>	
<b>13:20 – 13:40</b>	<b>SunB07-1</b>	<b>A Parameter Adaptive Particle Swarm Optimization Algorithm for Extreme Learning Machine""466:</b> <i>Li Bin, Li Yibin and Liu Meng</i>
<b>13:40 – 14:00</b>	<b>SunB07-2</b>	<b>Stability and Hopf Bifurcation of Genetic Regulatory Networks with Multiple Delays""4676</b> <i>Gang Chen, Min Xiao and Guo-Ping Jiang</i>
<b>14:00 – 14:20</b>	<b>SunB07-3</b>	<b>Air Traffic Controllers Workload Forecasting Method Based On Neural Network""4682</b> <i>Hongyong Wang, Duo Gong and Ruiying Wen</i>
<b>14:20 – 14:40</b>	<b>SunB07-4</b>	<b>The Effect of Different Hidden Unit Number of Sparse Autoencoder""4686</b> <i>Qingyang Xu and Li Zhang</i>
<b>14:40 – 15:00</b>	<b>SunB07-5</b>	<b>A Novel Algorithm for Shortest Path Problem Based on Pulse Coupled Neural Network""468:</b> <i>Wu Xueli, Gu Yapei and Zhang Jianhua</i>
<b>15:00 – 15:20</b>	<b>SunB07-6</b>	<b>The Simulation Research and Neural Network Modeling of Superheated Steam Temperature Characteristics for Ultra-Supercritical Unit""4696</b> <i>Yongguang Ma, Shiru Yang, Shuo Cai and Yufang Wang</i>

<b>Session</b>	<b>SunB08: Control Applications (III)</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 13:20-15:20
<b>Venue</b>	Room08
<b>Chair</b>	Shihua Li, <i>Southeast Univ.</i>
<b>Co-Chair</b>	Junzheng Wang, <i>Beijing Institute of Tech.</i>

<b>13:20 – 13:40</b>	<b>SunB08-1</b>	<b>Nonlinear Disturbance Observer Based Sliding Mode Control for PWM-Based DC-DC Boost Converter Systems""469;</b> <i>Junxiao Wang, Shihua Li, Jingwen Fan and Qi Li</i>
<b>13:40 – 14:00</b>	<b>SunB08-2</b>	<b>The Research of Loading Model of Eddy Current Dynamometer Based on Drnn with Double Hidden Layers""46: 7</b> <i>Fan Shuang, Wang Junzheng, Shen Wei and Chen Guangrong</i>
<b>14:00 – 14:20</b>	<b>SunB08-3</b>	<b>Model Predictive Control for Optimizing Indoor Air Temperature and Humidity in a Direct Expansion Air Conditioning System""46; 3</b> <i>Jun Mei, Bing Zhu and Xiaohua Xia</i>
<b>14:20 – 14:40</b>	<b>SunB08-4</b>	<b>Effect of Play in Inerter on Vehicle Suspension System""46; 9</b> <i>Yuance Liu, Yinlong Hu and Michael Z. Q. Chen</i>
<b>14:40 – 15:00</b>	<b>SunB08-5</b>	<b>Development of a Practical Experimental Platform for Control System of the Quadrotor""4725</b> <i>Fanxing Kong, Songlin Chen and Xiaochen Wang</i>
<b>15:00 – 15:20</b>	<b>SunB08-6</b>	<b>Model Predictive Controller for the Clutch Engagement to Limit the Traction Lag due to the Engine Torque Build-up""472;</b> <i>Mario Pisaturo, Adolfo Senatore and Vincenzo D'Agostino</i>

<b>Session</b>	<b>SunB09: Intelligent Automation</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 13:20-15:20
<b>Venue</b>	Room09
<b>Chair</b>	Hongpeng Wang, <i>Nankai Univ. State Key Laboratory of Robotics Tianjin Key Laboratory of Intelligent Robotics</i>
<b>Co-Chair</b>	Shoutao Li, <i>Jilin Univ. Changchun Architecture and Civilengineering Coll.</i>

<b>13:20 – 13:40</b>	<b>SunB09-1</b>	<b>Study on Control Structure for the Automated Guided Vehicle Base on Visual Navigation""4737</b> <i>Shoutao Li, Wei Wei and Rongben Wang</i>
<b>13:40 – 14:00</b>	<b>SunB09-2</b>	<b>Salient Region Detection by Learning Accurate Background Template""473;</b> <i>Hongpeng Wang, Pu Zhang and Jingtai Liu</i>
<b>14:00 – 14:20</b>	<b>SunB09-3</b>	<b>Keyword Extraction for Web News Documents Based on LM-BP Neural Network""4747</b> <i>Xiaohui Liu, Xin Yan, Zhengtao Yu , Guangshun Qin and Yuanyuan Mo</i>
<b>14:20 – 14:40</b>	<b>SunB09-4</b>	<b>Programmable Logic Controller Based Experimental Setup for HMI and SCADA Education""P IC</b> <i>Athar Hanif, Farhat Rashid , Aamer Iqbal Bhatti and Hammad Ali</i>
<b>14:40 – 15:00</b>	<b>SunB09-5</b>	<b>Vehicle Recognition Based on Saliency Detection and Color Histogram""4754</b> <i>Tiantian Wang, Chunbo Xiu and Yi Cheng</i>
<b>15:00 – 15:20</b>	<b>SunB09-6</b>	<b>A Study on the Context Aware System for Intelligent Automobile Black Box""4758</b> <i>Hae-Min Moon, Kang-Hyo Kim, Minchang Lee, Pankoo Kim and Sung Bum Pan</i>

<b>Session</b>	<b>SunB10: Data Processing (II)</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 13:20-15:20
<b>Venue</b>	Room10
<b>Chair</b>	Ji Tu, <i>Chinese Academy of Scie. China Electronics Tech. Group Corporation</i>
<b>Co-Chair</b>	Yan Wang, <i>Beijing Univ. of Aeronautics and Astronautics</i>

<b>13:20 – 13:40</b>	<b>SunB10-1</b>	<b>Ionosphere Occultation Inversion Method and Anti-Disturbance Performance Analysis""4763</b> <i>Wang Junyi, Wang Yan and Guo Lei</i>
<b>13:40 – 14:00</b>	<b>SunB10-2</b>	<b>A Novel Classified Multi-Dictionary Code Compression for Embedded Systems""4768</b> <i>Ji Tu, Meisong Zheng and Lijian Li</i>
<b>14:00 – 14:20</b>	<b>SunB10-3</b>	<b>A Novel Method Based on Data Visual Autoencoding for Time Series Similarity Matching""4773</b> <i>Chen Qian, Yan Wang, Gang Hu and Lei Guo</i>
<b>14:20 – 14:40</b>	<b>SunB10-4</b>	<b>Study on Unequal-Interval Federated Filter Algorithm Based on Dynamic Information Distribution""4778</b> <i>Cheng Jiaojiao, Xiong Zhi, Lin Aijun and Liu Jianye</i>
<b>14:40 – 15:00</b>	<b>SunB10-5</b>	<b>An Analysis Method for Flight Delays Based on Bayesian Network""4783</b> <i>Li Qianya, Wang Lei, Fei Rong, Wang Bin and Hei Xinhong</i>
<b>15:00 – 15:20</b>	<b>SunB10-6</b>	<b>A Fault Detection Method Based on Wavelet Theory for Satellite Power Systems""4788</b> <i>Wang Dong, Zhang Shaojie, Shuang Weifang, Wang Li, Yin Jing and Yuan Yuanming</i>

<b>Session</b>	<b>SunB11: Space and Underwater Robots</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 13:20-15:20
<b>Venue</b>	Room11
<b>Chair</b>	Daqi Zhu, <i>Shanghai Maritime Univ.</i>
<b>Co-Chair</b>	Ye Li, <i>Harbin Engineering Univ.</i>

<b>13:20 – 13:40</b>	<b>SunB11-1</b>	<b>A Cooperative Hunting Algorithm of Multi-AUV in 3-D Dynamic Environment""4793</b> <i>Zongrui Huang and Daqi Zhu</i>
<b>13:40 – 14:00</b>	<b>SunB11-2</b>	<b>Comparison and Analysis of Gridding Methods of Multi-Beam Echo Sounder""4798</b> <i>Chen Pengyun, Li Ye, Shen Peng, Wang Rupeng and Jiang Yanqing</i>
<b>14:00 – 14:20</b>	<b>SunB11-3</b>	<b>UAV Path Planning via Legendre Pseudospectral Method Improved by Differential Flatness""47: 2</b> <i>Zhang Siyu, Yu Jianqiao and Sun Huadong</i>
<b>14:20 – 14:40</b>	<b>SunB11-4</b>	<b>Research of Underwater Navigation on a ROV with Structure Detection and Decontamination""47: 7</b> <i>Qingjun Zeng, Ming Zhang, Huiting Liu, Xiang Sui, Song Liang and Zhenwen Song</i>
<b>14:40 – 15:00</b>	<b>SunB11-5</b>	<b>Path Following of Underactuated MSVs with Model Uncertainty and Ocean Disturbances along Straight Lines""47; 2</b> <i>Lu Liu, Dan Wang and Zhouhua Peng</i>
<b>15:00 – 15:20</b>	<b>SunB11-6</b>	<b>Target Manipulation Ability of Space Robot in Post-Capture Phase""47; 8</b> <i>Zhang Bo, Liang Bin, Wang Xueqian, Xu Wenfu and Chen Zhang</i>

<b>Session</b>	<b>SunB12: Intelligent Building Control and Management (I) (Special Session)</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 13:20-15:20
<b>Venue</b>	Room12
<b>Chair</b>	Yahui Wang, <i>Beijing Univ. of Civil Engineering and Archit.</i>
<b>Co-Chair</b>	TBA

<b>13:20 – 13:40</b>	<b>SunB12-1</b>	<b>Data-Driven Room Classification for Office Buildings Based on Echo State Network""4824</b> <i>Guang Shi, Qinglai Wei, Yu Liu, Qiang Guan and Derong Liu</i>
<b>13:40 – 14:00</b>	<b>SunB12-2</b>	<b>Research on the Key Factors of Gas Pipeline Emergency Operation""482:</b> <i>Li Cuimei, Wang Yahui, Yan Qian, Gao Shunli and Li Xiayi</i>
<b>14:00 – 14:20</b>	<b>SunB12-3</b>	<b>The Design of Greenhouse Lighting Control System""4835</b> <i>Wang Yanhui and Ji Xiaofei</i>
<b>14:20 – 14:40</b>	<b>SunB12-4</b>	<b>Building Dynamic Cooling/Heating Load Prediction Method Based on Hyperball CMAC Neural Network""483:</b> <i>Duan Peiyong, Zhao Yanling and Li Hui</i>
<b>14:40 – 15:00</b>	<b>SunB12-5</b>	<b>A Decentralized Flat Control System for Intelligent Building""4844</b> <i>Wang Shiqiang, Xing Jianchun, Li Juelong and Yang Qiliang</i>
<b>15:00 – 15:20</b>	<b>SunB12-6</b>	<b>Design and Implementation of LED Intelligent Lighting System Based on the Technology of PoE""484:</b> <i>Qiang Gao, Xiangyu Li, Yuxian Sui, Haiqinggu, Zhizhong Yu, Qing Zhang and Peng Li</i>

<b>Session</b>	<b>SunB13: Academician Zhang Siying's 90th Birthday Celebration and Academic Research Discussion (VI) (Invited Session)</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 13:20-15:20
<b>Venue</b>	Room13
<b>Chair</b>	TBA
<b>Co-Chair</b>	TBA

<b>13:20 – 13:40</b>	<b>SunB13-1</b>	<b>Impact on Transmission Dynamics of Complex Networks with Vertex Resources Limited""4856</b> <i>Hao Yu , Li Bai , Xinhua Wang , Yan Ma , Yuanwei Jing and Dan Wang</i>
<b>13:40 – 14:00</b>	<b>SunB13-2</b>	<b>Optimal Speed Tracking for Double Fed Wind Generator via Switching Control""485:</b> <i>Huang Ligang, Wang Xiangdong and Yan Kang</i>
<b>14:00 – 14:20</b>	<b>SunB13-3</b>	<b>Design of Greenhouse Environment Controller Based on Fuzzy Adaptive Algorithm""4866</b> <i>Li Shujiang, Li Mingye and Wang Xiangdong</i>
<b>14:20 – 14:40</b>	<b>SunB13-4</b>	<b>Event-Triggered Control for Active Queue Management""486:</b> <i>Tao Ren, Dongmei Wu and Yuanwei Jing</i>
<b>14:40 – 15:00</b>	<b>SunB13-5</b>	<b>Elegant Anti-Disturbance Control for Uncertain Discrete-Time Stochastic Systems""4874</b> <i>Xinjiang Wei, Huifeng Zhang, Zhenkai Guo, Meiqin Tang and Xiaohua Liu</i>
<b>15:00 – 15:20</b>	<b>SunB13-6</b>	<b>Adaptive Pinning Synchronization of a Scale-Free Dynamical Network Based on Energy Index""487:</b> <i>Dan Wang and Beilei Li</i>

**15:20 – 15:40 SunB13-7 Adaptive Disturbance Observer Based Control for a Class of Nonlinear Systems""4883**  
*Huifeng Zhang, Yuanwei Jing and Xinjiang Wei*

<b>Session</b>	<b>SunBIS: Interactive Session</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 13:20-15:20
<b>Venue</b>	Room14

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- SunBIS-2 Tolerant Tracking Controller Design with Guaranteed Success Rate of Output SDC Systems""488:**  
*Tang Yun, Zhou Jinglin and Wang Jing*
- SunBIS-3 Nonlinear Observer Based Time Delay Fault-Tolerant Attitude Control for Flexible Spacecraft during Orbit Maneuver""4896**  
*Yang Jing, Shi Xiaoping, Li Long and Liu Hailong*
- SunBIS-4 Adaptive Fault-Torrent Attitude Tracking Control for Hypersonic Unmanned Aerial Vehicle Subject to Input Constraints""489;**  
*Yuehui Ji, Xianggui Guo and Weichen Ni*
- SunBIS-5 Based on the Differential Game Hybrid Estimation for Linear Time-Varying Piecewise Systems with Output Time Delay""48: 7**  
*Fuqiang You and Hui Li*
- SunBIS-6 Fault Diagnosis Based on GMM of KCVA for Chemical Process""48; 2**  
*Zhao Xiaoqiang and Zhang Xiaoxiao*
- SunBIS-7 Fault Diagnosis for Rotating Machinery Based on Artificial Immune Algorithm and Evidence Theory""48; 8**  
*Guoxi Sun, Qin Hu, Qinghua Zhang, Aisong Qin and Longqiu Shao*
- SunBIS-8 Fault Location Approach Based on Fuzzy Five-Range SDG and Hierarchical Method""4923**  
*Yingjie Liu, Gang Xie, Yunyun Yang and Zehua Chen*
- SunBIS-9 Fault Diagnosis of Mobile Robot Based on Variable Structure Multiple Model Algorithm ""4929**  
*Zhang Fengyun and Xu Xuesong*
- SunBIS-10 Fault Diagnosis Based on Discrete Event System for Power Grid ""4936**  
*He-Xuan Hu, Hao-Hua Li, Yu Jiang, Yue-Qin Zheng, Shi-Ping Huang and Yi-Fei Sheng*
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*Zhen Zhao, Yi-Gang Sun and Jun Zhang*
- SunBIS-13 Kernel Entropy Component Analysis Based Process Monitoring Method with Process Subsystem Division""4952**  
*Yang Yinghua, Li Huaqing, Li Chenlong, Qin Shukai and Chen Xiaobo*
- SunBIS-14 Optimal Design Method for Satellite Actuator Configurations Considering Re-configurability""4957**  
*Duan Wen-jie, Wang Da-yi and Liu Cheng-rui*
- SunBIS-15 Wear Prediction of Metro Wheels Based on the Arima Model""4965**  
*Ling Wang, Wenjie Zhao, Hong Xu, Changjun Chen, Xiai Chen and Wenbo Na*
- SunBIS-16 Fault Detection for Internal Sensors of Mobile Robots Based on Support Vector Data Description""496:**  
*Zhuohua Duan, Hui Ma and Liang Yang*
- SunBIS-17 Function Allocation of Satellite Fault Diagnosis Based on Fitts Table and Optimization Solution""4975**  
*Liu Wenjing and Teng Baoyi*

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*Ming Zhu, Lisha Liu and Zewei Zheng*
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- SunBIS-25 Fault Diagnosis of Rail Vehicle Suspension System Based on Distributed DPCA""49: :**  
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- SunBIS-35 Improved Delay-Dependent  $H_\infty$  Control for Linear Systems with Interval Time-Varying Delay""4: 76**  
*Nan Xiao and Yuan Ma*
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*Hai-Bin Xie*

- SunBIS-38**      **DC Side Voltage Control of Active Power Filter Based on Type-2 Fuzzy Controller**""4: 96  
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- SunBIS-46**      **Stability and Hopf Bifurcation in a Delayed Feedback Control Competitive Websites Model** ""4; 39  
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- SunBIS-48**      **Autonomous Mapping for Robot Based on Monocular Vision and DGSOM Algorithm**""4; 4;  
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- SunBIS-49**      **Correlation Analys is Between Topological Properties and Market Volatility of Stock Network Based on Complex Network**""4; 54  
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- SunBIS-58**      **An ART2-Based Pumping Unit Fault Diagnosis**''4; 9;  
*Liu Shuguang, Jia Chenhui and Tao Yamin*
- SunBIS-59**      **An Empirical Research on Customer's Normatively Participative Behavior, Interactive Abilities and Customer Performance**''4; : 5  
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<b>Session</b>	<b>SunC01: Adaptive Control (III) (Chinese)</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 15:40-17:40
<b>Venue</b>	Room01
<b>Chair</b>	Guoqiang Zhu, <i>Beihang Univ.</i>
<b>Co-Chair</b>	Zhifeng Gao, <i>Nanjing University of Posts and Telecommunications</i>

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|----------------------|-----------------|--|
| <b>15:40 – 16:00</b> | <b>SunC01-1</b> | <b>Projection Algorithm Based Adaptive Iterative Learning Control for a Class of Discrete-Time Systems</b> ''4; ; 5<br><i>Baobin Liu and Wei Zhou</i>  |
| <b>16:00 – 16:20</b> | <b>SunC01-2</b> | <b>Voltage Stability Estimation and Adaptive Load Shedding Control of the Induction Motor in Power Systems</b> ''4; ; ;<br><i>Li Ye, Zhang Baohui and Guan Zhe</i>                             |
| <b>16:20 – 16:40</b> | <b>SunC01-3</b> | <b>Adaptive Dynamic Surface Control for Hypersonic Vehicle with Input Nonlinearity</b> ''5226<br><i>Guoqiang Zhu and Jinkun Liu</i>  |
| <b>16:40 – 17:00</b> | <b>SunC01-4</b> | <b>Synchronization Control for Chaotic Systems Based on Adaptive Method</b> ''5232<br><i>Wu Qing-Qing and Li Tao</i>   |
| <b>17:00 – 17:20</b> | <b>SunC01-5</b> | <b>An Interactive Evolutionary Algorithm with Adaptive Evaluation Mechanism</b> ''5238<br><i>Bo Wei, Xuwen Xia, Chengwang Xie and Fei Yu</i>   |
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<b>Session</b>	<b>SunC02: Robust Control (III) (Chinese)</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 15:40-17:40
<b>Venue</b>	Room02
<b>Chair</b>	Yao Yao, <i>National Key Laboratory of Scie and Tech</i>
<b>Co-Chair</b>	Ruicong Han, <i>Huazhong University of Scie and Tech</i>

- |                      |                 |  |
|----------------------|-----------------|--|
| <b>15:40 – 16:00</b> | <b>SunC02-1</b> | <b>Controllers Design for Linear Time-Varying Systems with Additive Perturbation</b> ''5249<br><i>Xiaoping Xu and Yanyue Shi</i> |
| <b>16:00 – 16:20</b> | <b>SunC02-2</b> | <b>An Spacecraft Attitude Maneuver method based on ADRC</b> ''5254<br><i>Yao Yao, Liu Lei and Wang Yong-Ji</i>                   |

16:20 – 16:40	SunC02-3	<b>A Robust Observer and Controller Design for a DC Motor with a Low-Resolution Encoder""525:</b> <i>Syed Ali Asad Rizvi, Muhammad Faisal, Hussain Aftab, Sohail Ahmed and Attaullah Y. Memon</i>
16:40 – 17:00	SunC02-4	<b>Multivariate System Research of Stability Margin Based on Optimization Method""5266</b> <i>Han Rui-Cong, Wang Yong-Ji and Liu Lei</i>
17:00 – 17:20	SunC02-5	<b>The Algorithm of Analysis of Root Quality Indices of High Order Interval Systems""526:</b> <i>Sergey An, Gayvoronskiy and Tatiana Ezangina</i>
17:20 – 17:40	SunC02-6	<b>Robust One-Step-Ahead Model Predictive Control of VTOL-UAVs""5275</b> <i>Ramdane Hedjar</i>

<b>Session</b>	<b>SunC03: Optimal Control and Optimization (I)(Chinese)</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 15:40-17:40
<b>Venue</b>	Room03
<b>Chair</b>	Guijun Zhang, <i>Zhejiang Univ. of Defense Tech.</i>
<b>Co-Chair</b>	Hao Gao, <i>Nanjing Univ. of Posts and Telecommunications City Univ. of Hong Kong</i>

15:40 – 16:00	SunC03-1	<b>Differential Evolution with Dynamic Niche Radius Strategy for Multimodal Optimization""527;</b> <i>Guijun Zhang, Dongwei Li, Xiaogen Zhou and Dongwei Xu</i>
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16:40 – 17:00	SunC03-4	<b>Optimal Energy-Efficient Control of High Speed Train with Speed Limit Constraints""5298</b> <i>Geng Chao, Wang Xinpei, He Kun and Wang Qingyuan</i>
17:00 – 17:20	SunC03-5	<b>Sub-Quadratic Convergence of a Smoothing Newton Method for Symmetric Cone Complementarity Problems ""52: 4</b> <i>Yanling He and Chunyan Liu</i>
17:20 – 17:40	SunC03-6	<b>Research of Multi-Rudder Trimming Technology for Sub-Orbital Reusable Launch Vehicle Based on Optimal Algorithm""52: :</b> <i>Jia Zhiqiang, Zhang Huiping, Zhang Yijie and Zhong Youwu</i>

<b>Session</b>	<b>SunC04: Networked Control Systems (I)</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 15:40-17:40
<b>Venue</b>	Room04
<b>Chair</b>	Chen Peng, <i>Shanghai Univ. Nanjing Normal Univ.</i>
<b>Co-Chair</b>	Chen Peng, <i>Dalian Maritime Univ.</i>

15:40 – 16:00	SunC04-1	<b>Event-Triggered Control in Networked Control Systems: A Survey""52; 4</b> <i>Zhang Heng, Peng Chen, Zhang Jin and Zhang Chu</i>
16:00 – 16:20	SunC04-2	<b>Protocol Sequence-Based Control of Cyber-Physical Systems""52; :</b> <i>Shixi Wen, Ge Guo and Wei Yue</i>

16:20 – 16:40	SunC04-3	<b>Optimal Guaranteed Cost Control for Networked Control Systems with Time-Varying Delay""5327</b> <i>Yuan Li and Kunqiu Sun</i>
16:40 – 17:00	SunC04-4	<b>Local Stability and Hopf Bifurcation Analysis of a Rate Control Protocol with Two Delays""5333</b> <i>Abuthahir and Gaurav Raina</i>
17:00 – 17:20	SunC04-5	<b>Analysis of TCP with an Exponential-RED (E-RED) Queue Management Policy with Two Delays""5339</b> <i>Sai Prasad and Gaurav Raina</i>
17:20 – 17:40	SunC04-6	<b>Local Stability Analysis of TCP with a Queue Management Policy: Single Bottleneck Link with Two Delays""5345</b> <i>Sai Prasad and Gaurav Raina</i>

<b>Session</b>	<b>SunC06: Fault Diagnosis and Fault-Tolerant Control (IV)</b>	
<b>Date/Time</b>	Sunday, 24 May 2015 / 15:40-17:40	
<b>Venue</b>	Room06	
<b>Chair</b>	Zhanshan Wang, <i>Northeastern Univ</i>	
<b>Co-Chair</b>	Lingfei Xiao, <i>Nanjing Univ. of Aeronautics and Astronautics</i>	
15:40 – 16:00	SunC06-1	<b>Fault Diagnosis Based on MFICA-FFRLSSVM for Batch Process""5353</b> <i>Lijun Fu, Qiong Jia and Qing Yang</i>
16:00 – 16:20	SunC06-2	<b><math>H_{\infty}</math> Fault Estimation for a Class of Nonlinear Sampled-Data Systems with Time Delay""5358</b> <i>Jidong Wang, Zhanshan Wang</i>
16:20 – 16:40	SunC06-3	<b>Fault Tolerant Control with Sliding Mode for Sensor Failure of Aero-Engine""5364</b> <i>Xinyu Fan, Lingfei Xiao, Runze Ding, Yanbin Du</i>
16:40 – 17:00	SunC06-4	<b>A Robust Fault Detection for Control System of Morphing Aerial Vehicle Based on Switched System Approach""5369</b> <i>Zhen Jia, Chaoyang Dong, Haoyu Cheng and Qing Wang</i>
17:00 – 17:20	SunC06-5	<b>Vibration Alarm Threshold Determination of Wind Turbine Gearbox""5375</b> <i>Jiang Rui, Wang Feng, Li Zhuang and Liu Yi-Bing</i>
17:20 – 17:40	SunC06-6	<b>An Open Circuit Fault-Tolerant Control Strategy for Matrix Convertor Based on Mathematical Construction Modulation""5379</b> <i>Deng Hui, Peng Tao, Dan Hanbing and Han Hua</i>
17:40 – 18:00	SunC06-7	<b>Adaptive Fault-Tolerant Controller for Satellite Proximity Operations with Finite-Time Convergence""5384</b> <i>Hongyang Dong, Qinglei Hu, and Guangfu Ma</i>

<b>Session</b>	<b>SunC07: Management Information Systems and Enterprises Informatization</b>	
<b>Date/Time</b>	Sunday, 24 May 2015 / 15:40-17:40	
<b>Venue</b>	Room07	
<b>Chair</b>	Lijuan Zheng, <i>South China Univ. of Tech.</i>	
<b>Co-Chair</b>	Xinhua Zhao, <i>Qingdao Univ.of Scie.and Tech.</i>	

<b>15:40 – 16:00</b>	<b>SunC07-1</b>	<b>An Analysis of Continuous Reform of Human Resource Strategic Management of the SMEs in China""538:</b> <i>Degui Zhu and Hailan Xia</i>
<b>16:00 – 16:20</b>	<b>SunC07-2</b>	<b>The Impact of Internal Control and Executive Power: An Approach to Promoting the Quality of Accounting Information in Chinese Quoted Firms""5396</b> <i>Degui Zhu and Liqiongyu Zhu</i>
<b>16:20 – 16:40</b>	<b>SunC07-3</b>	<b>Digital Flight Test Platform Design Research""53: 2</b> <i>Xiao Hua, Zhang Xiao Ming and Shu Chen Hui</i>
<b>16:40 – 17:00</b>	<b>SunC07-4</b>	<b>Investigation of Consumer Purchase Behavior of Towel""53: 5</b> <i>Zhao Xinhua</i>
<b>17:00 – 17:20</b>	<b>SunC07-5</b>	<b>Analysis of Influencing Factors on Graduate Students' Achievements in Scientific Research""53: :</b> <i>Yuanyuan Wang, Junxiang Li, Deyi Li, Guici Chen</i>
<b>17:20 – 17:40</b>	<b>SunC07-6</b>	<b>Design and Realization of Professional Title Evaluation System for High Educational Institutions Based on J2EE Techniques""53; 4</b> <i>Lijuan Zheng, Senping Tian and Youqiang Zhang</i>

<b>Session</b>	<b>SunC08: Control Applications (IV) (Chinese)</b>	
<b>Date/Time</b>	Sunday, 24 May 2015 / 15:40-17:40	
<b>Venue</b>	Room08	
<b>Chair</b>	Xu Yang, <i>Univ.of Scie. &amp; Tech.Beijing</i>	
<b>Co-Chair</b>	Shengquan Li, <i>Yangzhou Univ.</i>	

<b>15:40 – 16:00</b>	<b>SunC08-1</b>	<b>Modelling and Minimum Variance Covariance Constrained Control of Acetylene Hydrogenation Industrial Device""53; 8</b> <i>Xu Xinke and Zhao Zhong</i>
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<b>16:40 – 17:00</b>	<b>SunC08-4</b>	<b>The Coupling Model and Robust Controller Design of Vertical System in Rolling Mills""5436</b> <i>Yang Xu, Ding Dawei and Tong Chaonan</i>
<b>17:00 – 17:20</b>	<b>SunC08-5</b>	<b>A Valid Adaptive Sliding Mode Control Method for Chaotic Ship Steering""5443</b> <i>Li Tian-Wei, Huang Qian, Guo Jiao, Yi Cheng-Tao and Wang Shu-Xiao</i>
<b>17:20 – 17:40</b>	<b>SunC08-6</b>	<b>Scheduling Imaging Mission for Area Target Based on Satellite Constellation""5447</b> <i>He Yanchao, Xu Ming, Yang Zhi and Liu Shengli</i>

<b>Session</b>	<b>SunC09: Mobile Robotics</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 15:40-17:40
<b>Venue</b>	Room09
<b>Chair</b>	Ni Zhang, <i>Zhejiang Univ. of Tech.</i>
<b>Co-Chair</b>	Liang Shan, <i>Chongqing University</i>

<b>15:40 – 16:00</b>	<b>SunC09-1</b>	<b>Distributed Connectivity Control of Car-Like Robot Networks""5453</b> <i>Ni Zhang, Liwei Yuan and Xiongxiang He</i>
<b>16:00 – 16:20</b>	<b>SunC09-2</b>	<b>Robot Navigation Based on Visual Feature Perception and Monte Carlo Sampling""5459</b> <i>Ying Li, Zuolei Sun, Yafang Xu and Bo Zhang</i>
<b>16:20 – 16:40</b>	<b>SunC09-3</b>	<b>A Study on Autonomous Learning Mechanism of Cognitive Robot""5465</b> <i>Shi Tao, Ren Hongge, Yin Rui and Xiang Yingfan</i>
<b>16:40 – 17:00</b>	<b>SunC09-4</b>	<b>Design of Localization System for Indoor Mobile Robots Based on Ultrasonic Net""546:</b> <i>Jia Qian, Niu Weiqiang, Wang Mulan, Liu Shuqing and Ge Jianjing</i>
<b>17:00 – 17:20</b>	<b>SunC09-5</b>	<b>A Delay/Disruption Tolerant Routing Algorithm based on Traffic Prediction""5475</b> <i>Yongtao Wei and Junwei Wang</i>
<b>17:20 – 17:40</b>	<b>SunC09-6</b>	<b>Multi-Robot Task Allocation based on Utility and Distributed Computing and Centralized Determination""547;</b> <i>Fei Liu, Shan Liang and Xiaodong Xian</i>

<b>Session</b>	<b>SunC10: Data processing (III) (Chinese)</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 15:40-17:40
<b>Venue</b>	Room10
<b>Chair</b>	Jianbo Liu, <i>Northeastern Univ. at Qinhuangdao</i>
<b>Co-Chair</b>	Bo Li, <i>Communication Univ. of China</i>

<b>15:40 – 16:00</b>	<b>SunC10-1</b>	<b>Integer Order Accumulation and its use in GM(1,1)""5487</b> <i>Li Bo, Zhang Fanghong and Wu Zhengpeng</i>
<b>16:00 – 16:20</b>	<b>SunC10-2</b>	<b>Debiased Converted Measurement Kalman Filter Algorithm for Optic-Electric Target Tracking""548;</b> <i>Tao Yang, Pan-Long Wu, Xing-Xiu Li and Jia-Le Liu</i>
<b>16:20 – 16:40</b>	<b>SunC10-3</b>	<b>Semi-Supervised Affinity Propagation Clustering Algorithm Based on Kernel Function""5497</b> <i>Zhao Xiaoqiang and Xie Yaping</i>
<b>16:40 – 17:00</b>	<b>SunC10-4</b>	<b>Asymmetric <math>\varepsilon</math>-Band Fuzzy Support Vector Regression Based on Data Domain Description""54: 2</b> <i>Ma Xiao-Xin and Zhu Mei-Lin</i>
<b>17:00 – 17:20</b>	<b>SunC10-5</b>	<b>The Research of Vietnamese Language News Clue Extraction Method Based on Converged Network Semantic Knowledge""54: 9</b> <i>Zhou Feng, Zhu Li-Juan, Fu Xiao-Ming, Yu Wei-Xin, Yan Xin and Zhou Lan-Jiang</i>
<b>17:20 – 17:40</b>	<b>SunC10-6</b>	<b>Research on Image Retrieval Based on Formal Concept Analysis""54; 2</b> <i>Xiaomin Wang, Jianbo Liu, Yanyan Zhang and Lihua Huang</i>

<b>Session</b>	<b>SunC11: Cyber-physical systems</b>	
<b>Date/Time</b>	Sunday, 24 May 2015 / 15:40-17:40	
<b>Venue</b>	Room11	
<b>Chair</b>	Wei Cui, <i>South China Univ. of Tech</i>	
<b>Co-Chair</b>	Qiang Yang, <i>Zhejiang Univ.</i>	

<b>15:40 – 16:00</b>	<b>SunC11-1</b>	<b>Optimal Control of Population Inversion in Open Quantum Systems""54; 8</b> <i>Wei Cui</i>
<b>16:00 – 16:20</b>	<b>SunC11-2</b>	<b>Cyber Security Assessment in PMU-Based State Estimation of Smart Electric Transmission Networks""5524</b> <i>Yi Lu, Qiang Yang, Wenyuan Xu, Zhiyun Lin and Wenjun Yan</i>
<b>16:20 – 16:40</b>	<b>SunC11-3</b>	<b>Optimal Node Scheduling for Heterogeneous Energy Harvesting Sensor Networks""552:</b> <i>Changqing Xia, Qingxu Deng and Wei Liu</i>
<b>16:40 – 17:00</b>	<b>SunC11-4</b>	<b>Influence of Thermal and Flow Distribution for the Czochralski Growth Process of Si Under External Magnetic Field""5536</b> <i>Huang Weichao, Liu Ding and Zhang Ni</i>
<b>17:00 – 17:20</b>	<b>SunC11-5</b>	<b>False Data Injection Attacks for a Class of Output Tracking Control Systems""553;</b> <i>Fangyuan Hou, Zhonghua Pang, Yuguo Zhou and Dehui Sun</i>
<b>17:20 – 17:40</b>	<b>SunC11-6</b>	<b>An Improved K-means Algorithm and its Application in the Evaluation of Air Quality Levels""5546</b> <i>Guo Xiaojie, Chen Liang, Zhou Hang and Huang Jun</i>

<b>Session</b>	<b>SunC12: Intelligent Building Control and Management (II) (Special Session)</b>	
<b>Date/Time</b>	Sunday, 24 May 2015 / 15:40-17:40	
<b>Venue</b>	Room12	
<b>Chair</b>	Yahui Wang, <i>Beijing Univ.of Civil Engineering and Archit.</i>	
<b>Co-Chair</b>	TBA	

<b>15:40 – 16:00</b>	<b>SunC12-1</b>	<b>Underground Garage Related Electrical Design""5552</b> <i>Yue Xiao Liu, Yahui Wang and Le Tian</i>
<b>16:00 – 16:20</b>	<b>SunC12-2</b>	<b>Wireless Sensor Network in Wind and Solar Hybrid Street Lamp Application""5557</b> <i>An Ce-Ce and Shi Xiao-Xia</i>
<b>16:20 – 16:40</b>	<b>SunC12-3</b>	<b>Design of WSN-Based Environment Monitoring System on Repair of Gas Leakage""5562</b> <i>Xiaoran Guo, Yahui Wang and Xufeng Wei</i>
<b>16:40 – 17:00</b>	<b>SunC12-4</b>	<b>The Design of the Building Electrical Fault Diagnosis System Based on Multi-Agent""5567</b> <i>Chen Fangwen, Wang Yahui, Shen Li, Liu Chao and Ding Mingjia</i>
<b>17:00 – 17:20</b>	<b>SunC12-5</b>	<b>The Research of PMSM RBF Neural Network PID Parameters Self-Tuning in Elevator""5572</b> <i>Wang Tong-Xu and Ma Hong-Yan</i>
<b>17:20 – 17:40</b>	<b>SunC12-6</b>	<b>Design of a Data Acquisition System for Building Electrical Fault Diagnosis""5577</b>

17:40 – 18:00    **SunC12-7**    *Yunfeng Zhao, Yahui Wang, Hong Ren and Mingjia Ding*  
**Modeling and Simulation Study of Evacuation Based on Character Trait""5582**  
*Zhao Xue, Hu Yu-Ling and Xie Kang*

<b>Session</b>	<b>SunC13: Traffic control</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 15:40-17:40
<b>Venue</b>	Room13
<b>Chair</b>	Hui Wang, <i>Zhejiang Univ.</i>
<b>Co-Chair</b>	Shuo Wang, <i>National Univ. of Defense Tech.</i>

15:40 – 16:00    **SunC13-1**    **Optimizing Bi-Level Programming Control of Artery with Environmental Constraint""5587**  
*Shaonan Wang, Hui Wang and Hong Liu*

16:00 – 16:20    **SunC13-2**    **An N-Path UE with Recourse for Traffic Assignment""5593**  
*Shuo Wang, Zheng Xie and Li Dai*

16:20 – 16:40    **SunC13-3**    **Study on Ant Colony Optimization for Traffic Assignment Problem""5598**  
*Suxin Wang, Leizhen Wang, Silei Wu, Xiaoqi Li and Yongqing Li*

16:40 – 17:00    **SunC13-4**    **Explicit Adaptive Time-Delay Compensation for Bilateral Teleoperation""559;**  
*Khalid Abidi, Yildiray Yildiz and Bekir Emre Korpe*

17:00 – 17:20    **SunC13-5**    **A Method on the Evaluation Technology of High Speed Railway Infrastructure Safety State""55: 6**  
*Yan Li, Honghui Dong and Limin Jia*

17:20 – 17:40    **SunC13-6**    **Research on the Passenger Comfort Evaluation System of Urban Rail Transit""55: ;**  
*Zhang Xin-Wen, Dong Hong-Hui, Jia Li-Min, and He Yong-Chang*

<b>Session</b>	<b>SunCIS: Interactive Session</b>
<b>Date/Time</b>	Sunday, 24 May 2015 / 15:40-17:40
<b>Venue</b>	Room14

**SunCIS-01**    **The Research of Different Pulse Width Modulation Strategies used in Control Moment Gyro Gimbal Motor""55; 5**  
*Hu Yuewei, Lu Ming, Tian Limei and Yang Jigang*

**SunCIS-02**    **Modeling and Simulation of Electro-Hydraulic Servo System of a Certain Weapon Barrel for Balancing and Positioning""55; 9**  
*Kang Li, Qiang Gao, Jin Gong and Yuanlong Hou*

**SunCIS-03**    **DSP-Based Predictive Functional Control for Brushless DC Motor""5624**  
*Zhang Yan, Han Meng and Guo Kai*

**SunCIS-04**    **Complex-Shaped Object Path Planning Algorithm with Kinematics and Terminal Pose Constraints""562:**  
*Yue Zheng, Zhi Zhang and Guihua Xia*

**SunCIS-05**    **A Kind of Engineering Trajectory Oscillation Eliminated Control Method for Suborbital Reentry Vehicle""5635**  
*Han Pengxin, Liu Feng and Shi Xiaoning*

**SunCIS-06**    **Suppression of Servo System Mechanical Resonance Based on Adaptive IIR Notch Filter""563:**  
*Na Li and Shi-Hua Li*

- SunCIS-07**      **Control of Quadrotors with Actuator Saturations""5646**  
*Wu Yang, Cao Ke-Cai and Lv Mengjiao*
- SunCIS-08**      **A Direct Lyapunov Approach for Tracking Control of Mobile Robot with Two On-Axle Hitching Trailers""564;**  
*Jin Cheng, Yong Zhang and Zhonghua Wang*
- SunCIS-09**      **Contour Control of the Full Flexible Nozzle in the Wind Tunnel Based on Virtual Shaft""5655**  
*Gao Chuan, Rui Wei, Huang Xuhui and Jiang Jingyan*
- SunCIS-10**      **Modeling and Creep Compensation Control of Bellow-Driven Positioning Stage""565:**  
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<b>Session</b>	<b>MonA01: Complex Networks and Systems (I)</b>
<b>Date/Time</b>	Monday, 25 May 2015 / 08:00-10:00
<b>Venue</b>	Room01
<b>Chair</b>	Jianwen Feng, <i>Shenzhen Univ.</i>
<b>Co-Chair</b>	Jianan Fang, <i>Donghua Univ.</i>

- 08:00 – 08:20**     **MonA01-1**     **State Estimation for Continuous-time Directed Complex Dynamical Network with Random Packet Dropout""58; 8**  
*Xu Wu and Guoping Jiang*
- 08:20 – 08:40**     **MonA01-2**     **The Variable Air Strikes Target Threat Judgment Method of Fuzzy Evaluation""5923**  
*Wang Shu Qi, Ma Liang and Zhang Lin*
- 08:40 – 09:00**     **MonA01-3**     **Synchronization of Takagi-Sugeno Fuzzy Stochastic Discrete-Time Complex Networks with Delayed Impulsive Effects""5927**  
*Zhen Li, Jian-an Fang and Guang He*
- 09:00 – 09:20**     **MonA01-4**     **Consensus Stability of Discrete-Time Descriptor Multi-Agent Systems ""5933**  
*Wenxiu Chen, Wenhai Chen, Lixin Gao and Yulong Cui*

09:20 – 09:40	MonA01-5	<b>Prediction of Hard Rock TBM Penetration Rate Using Random Forests'''5938</b> <i>Hu Tao, Wang Jingcheng and Zhang Langwen</i>
09:40 – 10:00	MonA01-6	<b>Exponential Synchronization of Time-varying Delays and Non-delay Coupled Dynamical Complex Network Via Impulsive Control'''5943</b> <i>Fenfen Yu, Jianwen Feng and Yi Zhao</i>

<b>Session</b>	<b>MonA02: Computer Games (Invited Session)</b>
<b>Date/Time</b>	Monday, 25 May 2015 / 08:00-10:00
<b>Venue</b>	Room01
<b>Chair</b>	Xinhe Xu, <i>Northeastern Univ.</i>
<b>Co-Chair</b>	TBA

08:00 – 08:20	MonA02-1	<b>Move Generation and Search Strategy Research for Computer Game of Checkers'''5949</b> <i>Qi Wang, Chang Liu, Yue Wang and Danyang Chen</i>
08:20 – 08:40	MonA02-2	<b>Static Strategies and Inference for the Game of Phantom Go'''5954</b> <i>Tan Zhu, Yueming Yuan, Ji Ma and Jiao Wang</i>
08:40 – 09:00	MonA02-3	<b>Alpha-Beta-TSS in Connect6'''5959</b> <i>Yang Xue, Huayu Li and Tianbo Jiang</i>
09:00 – 09:20	MonA02-4	<b>Networked Predictive Control and its Simple Application into a Class of Bilinear Systems'''5965</b> <i>An Bao-Ran, Wang Xiao-Li and Liu Guo-Ping</i>
09:20 – 09:40	MonA02-5	<b>The Research to Construct Dots and Boxes Battle Platform in Computer Game'''596;</b> <i>Liqun Zhang, Yicong Zhang, Peisheng Liu and Laide Guo</i>
09:40 – 10:00	MonA02-6	<b>An Improved Algorithm Model based on Machine Learning'''5976</b> <i>Zhou Ke, Wong Huan, Wu Ruo-fan and Qi Xin</i>

<b>Session</b>	<b>MonA03: Optimal Control and Optimization (II)(Chinese)</b>
<b>Date/Time</b>	Monday, 25 May 2015 / 08:00-10:00
<b>Venue</b>	Room03
<b>Chair</b>	Jianghua Zhou, <i>Chinese Academy of Scie.</i>
<b>Co-Chair</b>	Jianqing Li, <i>Harbin Institute of Tech.</i>

08:00 – 08:20	MonA03-1	<b>Optimal Transfer Trajectory Analysis of Stratospheric Airship in Level Flight'''597:</b> <i>Zhou Jiang-Hua, Miao Jing-Gang and Wang Fan</i>
08:20 – 08:40	MonA03-2	<b>Stationkeeping Strategy for Quasi-Periodic Orbit Around Earth-Moon L2 Point'''5985</b> <i>Jian-qing Li, Chang-sheng Gao, Ying-jing Qian and Wu-xing Jing</i>
08:40 – 09:00	MonA03-3	<b>Improved Harmony Search Algorithm based on Cluster for Absolute Value Equation with 2<sup>nd</sup> Solutions'''5992</b> <i>Yong Longquan</i>
09:00 – 09:20	MonA03-4	<b>A Study on Cooperative Multi-objective Group Search Optimizer'''5998</b> <i>Ya-zhou Li, Xiang-wei Zheng and Xian-cui Xiao</i>

09:20 – 09:40	MonA03-5	<b>China's Agricultural Industry Cluster's Sustainable Development Model and Countermeasures""59: 4</b> <i>Wang Yumei, Hou Jingjing and Sun Yujie</i>
09:40 – 10:00	MonA03-6	<b>Improved Harmony Search Algorithm with Differential Operator for Absolute Value Equation""59: 8</b> <i>Yong Longquan</i>

<b>Session</b>	<b>MonA04: Distributed Control Systems</b>
<b>Date/Time</b>	Monday, 25 May 2015 / 08:00-10:00
<b>Venue</b>	Room04
<b>Chair</b>	Huabo Liu, <i>Tsinghua Univ.</i>
<b>Co-Chair</b>	Haoran Li, <i>Beijing Institute of Tech.</i>

08:00 – 08:20	MonA04-1	<b>Distributed Observer Design for Networked Dynamical Systems""59; 3</b> <i>Huabo Liu and Tong Zhou</i>
08:20 – 08:40	MonA04-2	<b>Combined Reference Tracking and Genetic Algorithm to Control Microwave Power and Phase during Heating Process""59; 9</b> <i>Jianshuo Li, Qingyu Xiong, Xin Shi and Shan Liang</i>
08:40 – 09:00	MonA04-3	<b>Distributed Multi-agent Consensus with Multiple Group Information""5: 25</b> <i>Jian Hou Ping Lin and Qingling Wang</i>
09:00 – 09:20	MonA04-4	<b>Consensus Tracking Algorithms with Estimation for Multi-agent System""5: 2:</b> <i>Li Haoran, Wu Qinghe and Djaidja Sabir</i>
09:20 – 09:40	MonA04-5	<b>Fault Detection for High-order Multi-agent Systems with Disturbances""5: 36</b> <i>Xiuhua Liu, Xianwen Gao and Jian Han</i>
09:40 – 10:00	MonA04-6	<b>Observer-Based Fault Tolerant Consensus of Linear Multi-Agent Systems""5: 42</b> <i>Zhiqiang Zuo, Jun Zhang and Yijing Wang</i>

<b>Session</b>	<b>MonA05: Social Economy Systems</b>
<b>Date/Time</b>	Monday, 25 May 2015 / 08:00-10:00
<b>Venue</b>	Room05
<b>Chair</b>	Xin Tong, <i>Northeastern Univ.</i>
<b>Co-Chair</b>	Tiehong Yin, <i>Equipment Academy of PLA Unit of 96251 of PLA</i>

08:00 – 08:20	MonA05-1	<b>Spatial Low Carbon Econometric Development of China Provincials in the view of International Trade""5: 48</b> <i>Tong Xin, Chen Kai and Li Xuesen</i>
08:20 – 08:40	MonA05-2	<b>An Optimal Order Quantity Model for Multi-products with Uncertain Arrival Time""5: 54</b> <i>Shu-an Liu, Weiwei Zhao and Donghua Chu</i>
08:40 – 09:00	MonA05-3	<b>Proportional Feedback Control under the Guide of Performance of Weapons and Equipment Acquisition System""5: 5:</b> <i>Yin Tiehong, Xie Wenxiu and Li Zhongguang</i>
09:00 – 09:20	MonA05-4	<b>Serval Control Problems of a Novel Finance Chaotic System""5: 66</b> <i>Guo Rongwei, Li Bin and Yan Zhiguo</i>
09:20 – 09:40	MonA05-5	<b>Using Grey Dynamic Model to Analysis the Influencing Factors of Grain Production in Heilongjiang Province""5: 72</b> <i>Huiqin Zhang and Jie Lv</i>

**09:40 – 10:00**    **MonA05-6**        **Factors Affecting China's Bond Issuance Size: An Empirical Study**<sup>5: 77</sup>  
*Hongyan Liu, Guang Hu and Ning Yin*

<b>Session</b>	<b>MonA06: Fault Diagnosis and Fault-tolerant Control (V) (Chinese)</b>
<b>Date/Time</b>	Monday, 25 May 2015 / 08:00-10:00
<b>Venue</b>	Room06
<b>Chair</b>	Yingwei Zhang, <i>Northeastern Univ.</i>
<b>Co-Chair</b>	Zaiying Wang, <i>Xi'an Univ. of Scie. and Tech.</i>

**08:00 – 08:20**    **MonA06-1**        **Application of an Information Fusion Method to Compound Fault Diagnosis of Rotating Machinery**<sup>5: 7</sup>;  
*Qin Hu, Aisong Qin, Qinghua Zhang, Guoxi Sun and Longqiu Shao*

**08:20 – 08:40**    **MonA06-2**        **The Co-design between Network Communication and Robust Fault-tolerant Control for Uncertain NNCS with  $\alpha$ -Safety Degree**<sup>5: 87</sup>  
*Yajie Li and Wei Li*

**08:40 – 09:00**    **MonA06-3**        **A DKPLS Reconstruction Algorithm for Fault Diagnosis**<sup>5: 95</sup>  
*Yingwei Zhang, Yunpeng Fan and Rongrong Sun*

**09:00 – 09:20**    **MonA06-4**        **Design of Fault Diagnosis Expert System for Civil Aircraft Based on FTA-BDD Analysis**<sup>5: 9</sup>;  
*Ruicheng Guo, Pu Yang and Xu Pan*

**09:20 – 09:40**    **MonA06-5**        **Temperature Fault-Tolerant Control System of the CSTR With Coil and Jacket Cooling Based on VPC**<sup>5: : 7</sup>  
*Wang Zai-ying and Peng Qian*

**09:40 – 10:00**    **MonA06-6**        **Sliding Mode Observer-based Multi-fault Reconstruction of Nonlinear System**<sup>5: ; 3</sup>  
*Changfan Zhang, Houguang Chu, Jing He, Lin Jia and Miaoying Zhang*

<b>Session</b>	<b>MonA07: Supply Chain and Logistics Management (I)</b>
<b>Date/Time</b>	Monday, 25 May 2015 / 08:00-10:00
<b>Venue</b>	Room07
<b>Chair</b>	Fuqiang Lu, <i>Northeastern Univ.</i>
<b>Co-Chair</b>	Ruimei Zhao, <i>Qingdao Univ. of Scie. and Tech.</i>

**08:00 – 08:20**    **MonA07-1**        **Optimal Sliding Mode Control for Supply Chain Systems Subject to Demand Disturbance**<sup>5: ; 9</sup>  
*Li-Ping Liu, Ai-Ming Feng and Bao-Lin Zhang*

**08:20 – 08:40**    **MonA07-2**        **Adaptive Inventory Control and Bullwhip Effect Analysis for Supply Chains with Non-stationary Demand**<sup>5: 25</sup>  
*Songpo Yang and Jihui Zhang*

**08:40 – 09:00**    **MonA07-3**        **Risk Evaluation and Control of Automobile Manufacturing Supply Chain**<sup>5: 2</sup>;  
*Lu Fuqiang, Bi Hualing, Sun Fuquan, Mao Yaxin and Jia Xiang*

**09:00 – 09:20**    **MonA07-4**        **A Supply Chain Network Oligopoly Model With Random Demands**<sup>5: 37</sup>  
*Shengzhen Dongye, XinChuan Wang and Zhengyu Duan*

**09:20 – 09:40**    **MonA07-5**        **Community Recycling Models for Remanufacturing System**<sup>5: 42</sup>  
*Zhang Minhong and Fu Yuqiang*

**09:40 – 10:00**    **MonA07-6**    **Human Resource Management Practices as a Mediating Variable Between Supply Chain Quality Management and Organizational Performance**<sup>5; 47</sup>  
*Rui-mei Zhao*

<b>Session</b>	<b>MonA08: Control Applications (V) (Chinese)</b>
<b>Date/Time</b>	Monday, 25 May 2015 / 08:00-10:00
<b>Venue</b>	Room08
<b>Chair</b>	Guoqiang Zhu, <i>Beijing Univ.of Aeronautics and Astronautics</i>
<b>Co-Chair</b>	Jianfang Qiao, <i>Taiyuan Univ.of Tech.</i>

**08:00 – 08:20**    **MonA08-1**    **Feedback-Aided PD-type Iterative Learning Control Using LMI**<sup>5; 4;</sup>  
*Ni Li, Mingxuan Sun and Guojun Li*

**08:20 – 08:40**    **MonA08-2**    **Robust Flight Control for Hypersonic Flight Vehicle Using Nonlinear Disturbance Observer**<sup>5; 57</sup>  
*Guoqiang Zhu and Jinkun Liu*

**08:40 – 09:00**    **MonA08-3**    **A Repairable System with Warning Device and Repairman Vacation**<sup>5; 63</sup>  
*Jianfang Qiao and Lina Guo*

**09:00 – 09:20**    **MonA08-4**    **A Novel Fractional Order PID Control Method of Electromagnetic Navigation Intelligent Car**<sup>5; 6;</sup>  
*Yaobin Yue, Bing Wu, Ruikun Zhang and Shao Wei*

**09:20 – 09:40**    **MonA08-5**    **Implement of Neural Network Predictive Controller based on Matlab and VC++ Mixed Programming**<sup>5; 74</sup>  
*Shi Yun Tao, Dong Xue Mei and Zheng Hong*

**09:40 – 10:00**    **MonA08-6**    **Review of Studies on Integrated Guidance and Control Design Approach**<sup>5; 7;</sup>  
*Xiangyu Sun, Tao Chao, Songyan Wang and Ming Yang*

<b>Session</b>	<b>MonA09: Perception Systems</b>
<b>Date/Time</b>	Monday, 25 May 2015 / 08:00-10:00
<b>Venue</b>	Room09
<b>Chair</b>	Changyin Sun, <i>Southeast Univ.</i>
<b>Co-Chair</b>	Liang Xiao, <i>National Univ. of Defense Tech.</i>

**08:00 – 08:20**    **MonA09-1**    **A Survey of Image Dehazing Approaches**<sup>5; 86</sup>  
*C. Chengtao, Z. Qiuyu and L. Yanhua*

**08:20 – 08:40**    **MonA09-2**    **A Comparative Analysis of Fusion Rules for Multi-sensor Image Fusion**<sup>5; 92</sup>  
*Xie Xiao-zhu and Xu Ya-wei*

**08:40 – 09:00**    **MonA09-3**    **Fast Unstructured Road Detection and Tracking from Monocular Video**<sup>5; 96</sup>  
*Liang Xiao, Bin Dai, Tingbo Hu and Tao Wu*

**09:00 – 09:20**    **MonA09-4**    **Research on Panoramic Vision System of Mobile Robot**<sup>5; ; 3</sup>  
*Qiaobing Yao, Hualong Yu, Wankou Yang and Changyin Sun*

**09:20 – 09:40**    **MonA09-5**    **Smooth Localization Independent of GPS Using Coarse Height Maps**<sup>5; ; 9</sup>  
*Chongyang Wei, Tao Wu and Hao Fu*

**09:40 – 10:00**    **MonA09-6**    **Sparse Gaussian Process Regression based Ground Segmentation for Autonomous Land Vehicles**<sup>5; ; 5</sup>  
*Tongtong Chen, Bin Dai, Daxue Liu and Jinze Song*

<b>Session</b>	<b>MonA10: Factory Modeling and Simulation (I)</b>	
<b>Date/Time</b>	Monday, 25 May 2015 / 08:00-10:00	
<b>Venue</b>	Room10	
<b>Chair</b>	Tingting Yang, <i>North China Electric Power Univ.</i>	
<b>Co-Chair</b>	Xiaofei Lu, <i>Chinese Academy of Scie.</i>	
<b>08:00 – 08:20</b>	<b>MonA10-1</b>	<b>Optimal Load Distribution Based on Maximization of Comprehensive Economic Benefit in Power Plant""5; ; ;</b> <i>Wei Wang, Xi Wu, Lili Wang, Hao Chang and Chunhui Zhao</i>
<b>08:20 – 08:40</b>	<b>MonA10-2</b>	<b>Design and Simulation of Elastic Guiding Mechanism for Missile""6227</b> <i>Li Hui-tong, Zhao Yang and Tian Hao</i>
<b>08:40 – 09:00</b>	<b>MonA10-3</b>	<b>Controller Parameter Tuning of Helium Refrigerator using Dynamic Simulation""6232</b> <i>Lu Xiaofei, Zhuang Ming, Zhou Zhiwei, Qiu Lilong and Hu Liangbing</i>
<b>09:00 – 09:20</b>	<b>MonA10-4</b>	<b>The Study of Temperature Distribution Reconstruction Based on the Singular Value Decomposition and the Griddata Interpolation Algorithm in Industry Microwave Heating""6237</b> <i>Ruixi Jia, Qingyu Xiong, Shan Liang, Weiren Shi and Lijie Wang</i>
<b>09:20 – 09:40</b>	<b>MonA10-5</b>	<b>Context Computing Based Component Selection for Pragmatic Composition""6243</b> <i>Hu Peng, Shen Jianjing, Tao Linbo and Guo Jia</i>
<b>09:40 – 10:00</b>	<b>MonA10-6</b>	<b>Modeling on SCR Process of a Coal-Fired Boiler Using LSSVM Method""6247</b> <i>Yang Tingting, CUI Chao, LV You and Li Jian</i>

<b>Session</b>	<b>MonA11: Modeling, Control and Simulations of Biological Systems (I)</b>	
<b>Date/Time</b>	Monday, 25 May 2015 / 08:00-10:00	
<b>Venue</b>	Room11	
<b>Chair</b>	Shen Kang, <i>Beijing Institute of Tech.</i>	
<b>Co-Chair</b>	XinYou Meng, <i>Lanzhou Univ. of Tech.</i>	
<b>08:00 – 08:20</b>	<b>MonA11-1</b>	<b>Dynamics Analysis and Simulation for the Invisible Monowing Rotorcraft""624;</b> <i>Shen Kang, Jianan Wang and Jiayuan Shan</i>
<b>08:20 – 08:40</b>	<b>MonA11-2</b>	<b>Bifurcation and Control of a Ratio-Dependent Bioeconomic Model with Time Delay""6257</b> <i>Xin-You Meng and Qing-Ling Zhang</i>
<b>08:40 – 09:00</b>	<b>MonA11-3</b>	<b>Analysis for Mechanics Model of Wheat and Random Vibration""6263</b> <i>Qicheng Xu and Changchun Sun</i>
<b>09:00 – 09:20</b>	<b>MonA11-4</b>	<b>A Comparison of Open-Loop and Closed-Loop DBS to Control the Thalamic Relay Neuron's Parkinsonian State""6267</b> <i>Huiyan Li, Fei Su, Jiang Wang and Bin Deng</i>
<b>09:20 – 09:40</b>	<b>MonA11-5</b>	<b>Effects of Deep Brain Stimulation Amplitude on the Basal-Ganglia-Thalamo-Cortical Network""626;</b> <i>Fei Su, Jiang Wang, Bin Deng and Huiyan Li</i>



**09:40 – 10:00**    **MonA11-6**    **An Improved Algorithm of Translational Motion Artifact Correction for MRI""6276**  
*Wu Chunli, Du Zhibing, Yuan Kun and Wei Yun*

<b>Session</b>	<b>MonA12: Renewable Energies (I)</b>
<b>Date/Time</b>	Monday, 25 May 2015 / 08:00-10:00
<b>Venue</b>	Room12
<b>Chair</b>	Gang Chen, <i>Chongqing Univ.</i>
<b>Co-Chair</b>	Yifei Xu, <i>Zhejiang Univ.</i>

**08:00 – 08:20**    **MonA12-1**    **Cooperative Solar Tracking Control of Multiple Dual-axis PV Panels""627:**  
*Guan Yanfeng, Chen Gang and Ren Jianghong*

**08:20 – 08:40**    **MonA12-2**    **Research on Reliability Evaluation of the Giant Wind Farm Electrical System""6286**  
*Qun Wang, Weikai Tan, Kang Xu and Yifei Xu*

**08:40 – 09:00**    **MonA12-3**    **Dynamic Thermal Modeling of PEMFC based on Fractional Order Theory""628;**  
*Qi Zhidong, Xu Shengyuan, Shan Liang and Bian Huijuan*

**09:00 – 09:20**    **MonA12-4**    **A New Control Scheme for LCL-type Grid-connected Inverter With a Notch Filter""6295**  
*Qiangsong Zhao, Fen Liang and Weifeng Li*

**09:20 – 09:40**    **MonA12-5**    **Design and Implementation of the Pitch Control System for Horizontal Axis Tidal Turbines""629:**  
*Chen Zhen, Chi Shukai, Li Ming and Wang Jianguo*

**09:40 – 10:00**    **MonA12-6**    **A Single-Phase Grid-Connected PV Inverter with Improved Grid-connected Current""62: 5**  
*Furong Xiao, Lei Dong and Xiaozhong Liao*

<b>Session</b>	<b>MonA13: Identification and Estimation (I)</b>
<b>Date/Time</b>	Monday, 25 May 2015 / 08:00-10:00
<b>Venue</b>	Room13
<b>Chair</b>	Hongyan Zhu, <i>Xi'an Jiaotong Univ.</i>
<b>Co-Chair</b>	Huapeng Yu, <i>Navy Submarine Academy</i>

**08:00 – 08:20**    **MonA13-1**    **Position Control of Permanent Magnet Synchronous Motor Speed Sensorless Servo System via Backstepping""62: ;**  
*Mingling Shao, Haisheng Yu, Jinpeng Yu and Bingqiang Shan*

**08:20 – 08:40**    **MonA13-2**    **A Control Theory Approach to Optimizing Turntable Rate for Single-axis Rotary Strapdown Inertial Navigation System""62; 7**  
*Huapeng Yu, Hai Zhu, Dayuan Gao and Zhengdong Guo*

**08:40 – 09:00**    **MonA13-3**    **Research on Measurement Set Partitioning Method for Tracking Multiple Extended Targets""62; ;**  
*Hongyan Zhu, Pandeng Zhang and Tingting Ma*

**09:00 – 09:20**    **MonA13-4**    **Recursive Bayesian Algorithm with Covariance Resetting for Identification of OEAR Models with Non-uniformly Sampled Input Data""6327**  
*Shaoyue Jing, Tianhong Pan and Zhengming Li*



09:20 – 09:40	MonA13-5	<b>Elimination of Abnormal Spectra in Coal-NIRS Analytical Model""6332</b> <i>Lei Meng, Li Ming, Li Cui and Chen Fan</i>
09:40 – 10:00	MonA13-6	<b>Black Box System Identification Dedicated to a Microwave Heating Process""6338</b> <i>Yupeng Yuan, Shan Liang, Jiaqi Zhong, Qingyu Xiong and Min Gao</i>

<b>Session</b>	<b>MonAIS: Interactive Session</b>
<b>Date/Time</b>	Monday, 25 May 2015 / 08:00-10:00
<b>Venue</b>	Room14

<b>MonAIS-1</b>	<b>Online Multi-step-ahead Time Series Prediction based on LSSVR using UKF with Sliding-Windows""6343</b> <i>Xiaoyong Liu and Huajing Fang</i>
<b>MonAIS-2</b>	<b>A Data Completion Algorithm for Incomplete Continuous Data Set""639;</b> <i>Ying Han, Kun Li and Dongsheng She</i>
<b>MonAIS-3</b>	<b>A Differentiated Pricing Mechanism for Idle Resources Allocation in Reservation Clouds""6458</b> <i>Jiang Fu, Pingping Yao, Kaiyang Liu and Jun Peng</i>
<b>MonAIS-4</b>	<b>A Multi-focus Color Image Fusion Method Based on Edge Detection""64; 6</b> <i>Wang Yajie, Ye Yongsheng, Ran Xiaoyan, Wu Yanyan and Shi Xiangbin</i>
<b>MonAIS-5</b>	<b>Approach of Outlier Detection in Process Control System""6572</b> <i>Wenjing Wang, Biao Wang, Zhizhong Mao and Yanli Song</i>
<b>MonAIS-6</b>	<b>Multiple Regression Analysis on Causes of Urban Fog-haze in China-Based on Data Mining""662:</b> <i>Xiaoning Yue, Zhaojia Meng and Zhonghu Yuan</i>
<b>MonAIS-7</b>	<b>CUDA-Based Hierarchical Multi-Block Particle Swarm Optimization Algorithm""663;</b> <i>Tian Lan, Maoyun Guo, Jianfeng Qu, Yi Chai, Zhenglei Liu and Xunjie Zhang</i>
<b>MonAIS-8</b>	<b>Tagged Image Clustering via Topic Models""6646</b> <i>Junjun Cui, Lizhen Liu, Hanshi Wang, Chao Du and Wei Song</i>
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- MonAIS-35**      **A Precise Low-Temperature Measurement System for Conduction Cooling Nb3Al Superconducting Magnet""6492**  
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- MonAIS-45**      **Obstacle Avoidance Path Planning for Manipulator Based on Variable-Step Artificial Potential Method""6547**  
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*Yang Xiang, Liang Zhiwei, Wei Zhipeng and Cui Xuanyu*
- MonAIS-49**      **Multi-robot Collaboration Based on Markov Decision Process in Robocup3D Soccer Simulation Game""6567**  
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- MonAIS-51**      **Path Planning for a Special Robot Working in Narrow Space""6583**  
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- MonAIS-52**      **Research on Pursuit-evasion Games with Multiple Heterogeneous Pursuers and a High Speed Evader""6588**  
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- MonAIS-54**      **Improved TEEN Based Trust Routing Algorithm in WSNs""659;**  
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- MonAIS-55**      **Recognition of the Type of Welding Joint Based on Line Structured-light Vision""65: 5**  
*Wang Xiuping, Fan Xi, Fan Ying and Bai Ruilin*
- MonAIS-56**      **Research on Robust Bionic Learning Algorithm in Balance Control for the Robot""65: 9**  
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- MonAIS-57**      **Research on Multiple Features of sEMG Combination and Dimension Reduction""65; 3**  
*Xiaoke Fang, Wang Liao, Jianhui Wang, Lin Li, Yuxian Zhang, Xiao Wang and Shusheng Gu*
- MonAIS-58**      **Estimation of Gait Pattern and Muscle Fatigue Based on Partial Swarm Optimization Process Neural Networks""65; 9**  
*Fei Wang, Tenglong Yin, Jian Liu, Jie Zhou and Yanjie Gao*
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**MonAIS-60**      **Motion Intention Estimation of Lower Limbs Based on sEMG Supplement with Acceleration Signal""6636**  
*Xingang Zhao, Rui Wang and Dan Ye*

<b>Session</b>	<b>MonB01: Complex Networks and Systems (II)</b>
<b>Date/Time</b>	Monday, 25 May 2015 / 10:20-12:20
<b>Venue</b>	Room01
<b>Chair</b>	Zunshui Cheng, <i>Qingdao University of Scie and Tech Southeast Univ.</i>
<b>Co-Chair</b>	Xiwei Liu, <i>Tongji Univ.</i>

<b>10:20 – 10:40</b>	<b>MonB01-1</b>	<b>Synchronization Analysis of Complex Dynamical Networks With System Delays and Coupling Delays Via Impulsive Control""6657</b> <i>Weiyang Wu, Jianwen Feng and Yi Zhao</i>
<b>10:40 – 11:00</b>	<b>MonB01-2</b>	<b>Research on Dynamic Routing Algorithm of the Combat Collaboration Communication Network""6662</b> <i>Wu Chenghai, Zhang Jianjun, Fan Xiquan, Qin Kaiyu and Liu Xiangping</i>
<b>11:00 – 11:20</b>	<b>MonB01-3</b>	<b>Lag Quasi-synchronization of Nonlinear Coupled Networks via Aperiodically Intermittent Pinning Control""6668</b> <i>Xiwei Liu and Ying Liu</i>
<b>11:20 – 11:40</b>	<b>MonB01-4</b>	<b>Pinning Control of Complex Networks With Unbounded Time-Varying Delays""6674</b> <i>Xiwei Liu and Yuan Xu</i>
<b>11:40 – 12:00</b>	<b>MonB01-5</b>	<b>Stability Analysis of an Annular Neural Network with Time-Delay Control""667:</b> <i>Zunshui Cheng, Yan Wang, Shuguo Yang and Dehao Li</i>
<b>12:00 – 12:20</b>	<b>MonB01-6</b>	<b>Static Output Controller Design for Consensus of Dynamical Networks with Interconnections""6685</b> <i>Ao Dun, Bojia Zhang, Xudong Guo and Tianyi Chen</i>

<b>Session</b>	<b>MonB02: Variable Structure Control (I)</b>
<b>Date/Time</b>	Monday, 25 May 2015 / 10:20-12:20
<b>Venue</b>	Room02
<b>Chair</b>	Xuehui Gao, <i>Beijing Institute of Tech. Shandong University of Scie and Tech</i>
<b>Co-Chair</b>	Chengcheng, <i>North China Electric Power Univ.</i>

<b>10:20 – 10:40</b>	<b>MonB02-1</b>	<b>Discrete Composite Control for Piezoelectric Actuator Systems""668;</b> <i>Xuehui Gao, Xuemei Ren, Changsheng Zhu and Chengyuan Zhang</i>
<b>10:40 – 11:00</b>	<b>MonB02-2</b>	<b>Induction Motor DTC Based on Adaptive SMC and Fuzzy Control""6696</b> <i>Shuai Zhao, Haisheng Yu, Jinpeng Yu and Bingqiang Shan</i>
<b>11:00 – 11:20</b>	<b>MonB02-3</b>	<b>Sliding-Mode and PCH Control of Three phase PWM Rectifier""66: 2</b> <i>Yu Gu, Haisheng Yu, Jinpeng Yu and Bingqiang Shan</i>
<b>11:20 – 11:40</b>	<b>MonB02-4</b>	<b>Sliding Mode Control for Maximum Wind Energy Capture of DFIG-Based Wind Turbine""66: 7</b> <i>Chengcheng Wang and Xiangjie Liu</i>
<b>11:40 – 12:00</b>	<b>MonB02-5</b>	<b>A New Nonlinear Sliding Mode Control System Design""66; 2</b> <i>Guo Jianguo, Liu Yuchao, Zhou Jun and Wang Guoqing</i>

**12:00 – 12:20**    **MonB02-6**        **Three-Dimensional Hit-to-Kill Guidance Law for Direct Thrust Controlled Interceptor''66; 6**  
*Naigang Cui, Feng Yang and Changzhu Wei*

<b>Session</b>	<b>MonB03: Optimal Control and Optimization (III) (Chinese)</b>
<b>Date/Time</b>	Monday, 25 May 2015 / 10:20-12:20
<b>Venue</b>	Room03
<b>Chair</b>	Linshuang Feng, <i>Huazhong Univ. of Scie. and Tech.</i>
<b>Co-Chair</b>	Yu Wang, <i>Beijing Institute of Control Engineering</i>

**10:20 – 10:40**    **MonB03-1**        **The Multi-objective Water Resources Optimization Scheduling Based on Chaos Genetic Algorithm''6722**  
*Zhao Xiao-qiang and He Zhi-e*

**10:40 – 11:00**    **MonB03-2**        **Study of Transfer Trajectory Guidance for Electric Sail''6728**  
*Wang Yu, Bian BingXiu, Wei YanMing, LI Yong and Yu Yang*

**11:00 – 11:20**    **MonB03-3**        **Mixed  $H_2/H_\infty$  Approach of Full Order State Observer Design for Satellite Attitude Control System''6735**  
*Keke Shi, Chuang Liu, Zhaowei Sun and Feng Wang*

**11:20 – 11:40**    **MonB03-4**        **Trajectories Optimization of Hypersonic Vehicle Based on a Hybrid Optimization Algorithm of PSO and SQP''673:**  
*Linshuang Feng, Lei Liu and Yongji Wang*

**11:40 – 12:00**    **MonB03-5**        **Approximate Optimal Inventory Control of Supply Chain Networks with Lead Time''6745**  
*Han Xiao-Jun, Feng Ai-Ming and Zhang Bao-Lin*

**12:00 – 12:20**    **MonB03-6**        **Research on Efficiency Evaluation Methods for Warehousing Operation and Management''674;**  
*Wang Jun, Ou Li, Dai Gelin and Sun Jing*

<b>Session</b>	<b>MonB04: Data-driven Control (Chinese)</b>
<b>Date/Time</b>	Monday, 25 May 2015 / 10:20-12:20
<b>Venue</b>	Room04
<b>Chair</b>	Yu Liang, <i>Jilin Univ.</i>
<b>Co-Chair</b>	Chunjie Yang, <i>Zhejiang Univ.</i>

**10:20 – 10:40**    **MonB04-1**        **Data-Driven Predictive Control of Idle Speed Control for SI Engine''6757**  
*Yu Liang Xiaohua Xie Yunfeng Hu and Hong Chen*

**10:40 – 11:00**    **MonB04-2**        **Comparison of Univariate and Multivariate Predicted Method Based on Support Vector Regression for Silicon Content in Hot Metal''6763**  
*Shuyan Ma, Chunjie Yang, Wenhui Liu, Zhe Zhou and Jinghua Song*

**11:00 – 11:20**    **MonB04-3**        **Almost Sure and Mean Square Convergence of ILC for Linear Systems with Randomly Varying Iteration Lengths''6768**  
*Dong Shen, Wei Zhang, Youqing Wang and Chiang-Ju Chien*

**11:20 – 11:40**    **MonB04-4**        **Multimode Process Monitoring Using Prototype-based Gaussian Mixture Model''6774**  
*Zhibo Xiao, Ma Yao and Huangang Wang*

11:40 – 12:00	MonB04-5	<b>An Improved Active Learning Sparse Least Squares Support Vector Machines for Regression""677:</b> <i>Si Gangquan, Shi Jianquan, Guo Zhang and Gao Hong</i>
12:00 – 12:20	MonB04-6	<b>Two-DOF Manipulator Trajectory Tracking Control Based on Unfalsified Control""6785</b> <i>Li Yanru and Zheng Yan</i>

<b>Session</b>	<b>MonB05: Stochastic Systems</b>
<b>Date/Time</b>	Monday, 25 May 2015 / 10:20-12:20
<b>Venue</b>	Room05
<b>Chair</b>	Weihai Zhang, <i>Shandong Univ. of Sice. and Tech.</i>
<b>Co-Chair</b>	Wenxia Xu, <i>Huazhong Univ. of Scie. and Techn.</i>

13:10 – 13:30	MonB05-1	<b>Output Feedback Control Based on Augmented Observer for Random System""6789</b> <i>Yuan Li, Liqiang Yao and Zhaojing Wu</i>
13:10 – 13:30	MonB05-2	<b>Stabilization of Random Nonlinear Systems with Unmodeled Dynamics""6795</b> <i>Jinfeng Zhang, Mingyue Cui and Zhaojing Wu</i>
13:10 – 13:30	MonB05-3	<b>Dual Adaptive Control of Nonlinear Stochastic Systems based on Echo State Network""679;</b> <i>Suping Cao, Wenxia Xu and Xizhen Hu</i>
13:10 – 13:30	MonB05-4	<b>Output Feedback Design for Stochastic Feedforward Nonlinear Time-delay Systems""67: 7</b> <i>Liang Liu Yifan Zhang and Huanqing Wang</i>
13:10 – 13:30	MonB05-5	<b>Lyapunov-type Theorems for Linear Discrete Time-Varying Stochastic Systems with Multiplicative Noise""67; 2</b> <i>Weihai Zhang and Tianliang Zhang</i>
13:10 – 13:30	MonB05-6	<b>On a Phase Tracking Problem: Continuous-Discrete Filtering Approaches""67; 6</b> <i>Ravish H. Hirpara and Shambhu N. Sharma</i>

<b>Session</b>	<b>MonB06: Fault Diagnosis and Fault-tolerant Control (VI) (Chinese)</b>
<b>Date/Time</b>	Monday, 25 May 2015 / 10:20-12:20
<b>Venue</b>	Room06
<b>Chair</b>	Xueqian Wan, <i>Tsinghua Univ.</i>
<b>Co-Chair</b>	Honghui Dong, <i>Beijing Jiaotong Univ.</i>

10:20 – 10:40	MonB06-1	<b>A Turnout Close Condition Monitoring Method Based on Magnetostrictive Technology""6822</b> <i>Yi Tang, Honghui Dong and Limin Jia</i>
10:40 – 11:00	MonB06-2	<b>Development of an Experimental Software for Rub-Impact Fault Recognition Research""6826</b> <i>Yanjun Lu, Lihe Wan and Yi Liu</i>
11:00 – 11:20	MonB06-3	<b>Fault Diagnosis Method Study in Roller Bearing Based on Wavelet Transform and Stacked Auto-encoder""682:</b> <i>Tan Junbo, Lu Weining, Tan Junfeng and Wan Xueqian</i>
11:20 – 11:40	MonB06-4	<b>Recognition of Rotor Rubbing Fault Types Based on BP Neural Networks""6836</b> <i>Yanjun Lu and Yi Liu</i>

11:40 – 12:00	MonB06-5	<b>Study of Active Tolerant Control for Encoder Fault in Lift Stage Machinery Control Systems Based on Signal Reconstruction""683;</b> <i>Haijie Mao Wei Li and Xiaolin Feng</i>
12:00 – 12:20	MonB06-6	<b>Research Recognition of Aircraft Engine Abnormal State""6847</b> <i>Liying Jiang, Chengan Xue, Jianguo Cui, Mingyue Yu, Xueping Pu and Jianqiang Shi</i>

<b>Session</b>	<b>MonB07: Supply Chain and Logistics Management (II) (Chinese)</b>
<b>Date/Time</b>	Monday, 25 May 2015 / 10:20-12:20
<b>Venue</b>	Room07
<b>Chair</b>	Yuqiang Fu, <i>Graduate Univ. of the Chinese Academy of Scie.</i>
<b>Co-Chair</b>	Hui Zhang, <i>Northeastern Univ.</i>

10:20 – 10:40	MonB07-1	<b>Multiple Objective Community Service Resources Matching with Priority""6853</b> <i>Fu Yuqiang and Zhang Minhong</i>
10:40 – 11:00	MonB07-2	<b>Research on Advertising and Pricing Strategies in Closed-loop Supply Chain for Short Life Cycle Products""685;</b> <i>Tang Fangyuan, Chen Dongyan and Yu Hui</i>
11:00 – 11:20	MonB07-3	<b>The Expectation-Based Loss-Averse Newsvendor""6866</b> <i>Li Shou-rong and Zhang Ren-qian</i>
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<b>Venue</b>	Room08
<b>Chair</b>	Baoqing Yang, <i>Harbin Institute of Tech.</i>
<b>Co-Chair</b>	Yunlu Li, <i>Northeastern Univ.</i>

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11:00 – 11:20	MonB08-3	<b>Active Disturbance Rejection Solution for Single Water Tank Systems with High-Precision""6896</b> <i>Lijun Wang, Qing Li, Fen Zhang and Yixin Yin</i>
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12:00 – 12:20	MonB08-6	<b>A Novel Predictive Control for Active Power Filter using a Variable-Step LMS Algorithm</b> ""68: : <i>Li Yunlu, Wang Dazhi, Han Wei and Liu Zhen</i>

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<b>Date/Time</b>	Monday, 25 May 2015 / 10:20-12:20
<b>Venue</b>	Room09
<b>Chair</b>	Yifeng Niu, <i>National Univ. of Defense Tech.</i>
<b>Co-Chair</b>	Xiaodong Xian, <i>Chongqing Univ.</i>

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10:40 – 11:00	MonB09-2	<b>A Multi-input Multi-output Control Strategy for Intelligent Nonholonomic Robots</b> ""68; : <i>Xiaolong Li, Xiaodong Xian and Yupeng Yuan</i>
11:00 – 11:20	MonB09-3	<b>A Survey on Path Planning Algorithms in Robotic Fibre Placement</b> ""6926 <i>Lina Li, De Xu, Xingang Wang and Min Tan</i>
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12:00 – 12:20	MonB09-6	<b>A New ROS-Based Hybrid Architecture for Heterogeneous Multi-Robot Systems</b> ""6943 <i>Chunxu Hu, Can Hu, Dingxin He and Qiang Gu</i>

<b>Session</b>	<b>MonB10: Factory Modeling and Simulation (II) (Chinese)</b>
<b>Date/Time</b>	Monday, 25 May 2015 / 10:20-12:20
<b>Venue</b>	Room10
<b>Chair</b>	Gaowei Yan, <i>Taiyuan Univ. of Tech.</i>
<b>Co-Chair</b>	Zhugang Yuan, <i>Univ. of Jinan</i>

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10:40 – 11:00	MonB10-2	<b>Sliding Mode Control for Calciner Outlet Temperature via Regression Modeling</b> ""6955 <i>Su Zhe, Yuan Zhugang, Zhang Qiang, Zhang Xianlei and Xu Dezhi</i>
11:00 – 11:20	MonB10-3	<b>Soft Sensor Modeling of Mill Level Based on Convolutional Neural Network</b> ""695: <i>Jie Wei, Lei Guo, Xinying Xu and Gaowei Yan</i>
11:20 – 11:40	MonB10-4	<b>Research on Rheological Behavior in Slurry Pipelining Transportation</b> ""6966 <i>Zichao Kou, Jiande Wu, Jun Ma, Xiaodong Wang and Xuyi Yuan</i>
11:40 – 12:00	MonB10-5	<b>A Novel Real-time Simulation Platform for Testing Control Algorithm</b> ""696: <i>Yinsong Wang and Xiaohe Qu</i>



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<b>Date/Time</b>	Monday, 25 May 2015 / 10:20-12:20
<b>Venue</b>	Room11
<b>Chair</b>	Fei Yan, <i>Jilin Univ.</i>
<b>Co-Chair</b>	Fu Liu, <i>Jilin Univ.</i>

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**10:40 – 11:00**    **MonB11-2**        **Binning DNA Fragment of Metagenome Using a Novel Model**<sup>6982</sup>  
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**11:00 – 11:20**    **MonB11-3**        **The Reduction and Classification Research on DNA Fragment Species Attributes in Meta Genome**<sup>6988</sup>  
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**11:20 – 11:40**    **MonB11-4**        **Research on Calculation of Electric Field within Substations Using CSM**<sup>6994</sup>  
*Huang Heyuan and Huang Yanwei*

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**12:00 – 12:20**    **MonB11-6**        **Detection and Analysis of the Effect of Power Frequency Magnetic Field on Cell Proliferation**<sup>69: 4</sup>  
*Hongwei Lei, Yanan Tian and Xu Wang*

<b>Session</b>	<b>MonB12: Renewable Energies (II)</b>
<b>Date/Time</b>	Monday, 25 May 2015 / 10:20-12:20
<b>Venue</b>	Room12
<b>Chair</b>	Yanjie Fu, <i>Inner Mongolia Univ. of Tech.</i>
<b>Co-Chair</b>	Qiuxuan Wu, <i>Hangzhou Dianzi Univ.</i>

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*Hu Linjing and Fu Yanjie*

**10:40 – 11:00**    **MonB12-2**        **The Micro-grid Monitoring Software Design and Development Based on Python Language**<sup>69: 4</sup>  
*Hao Zhou, Qiuxuan Wu, Fengfeng Li and Weijie Lin*

**11:00 – 11:20**    **MonB12-3**        **Analysis of the Stable Operation of Micro-grid Based on PV, Wind Power and Storage System**<sup>69: ;</sup>  
*Yujie Huang, Qiuxuan Wu, Fengfeng Li and Tengfei Guo*

**11:20 – 11:40**    **MonB12-4**        **Coordination Control Based on Multi-agent for DC Micro-Grid**<sup>6: 25</sup>  
*Li Zhifeng and Qi Zhiyuan*

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12:00 – 12:20	MonB12-6	<b>Wind Speed Forecasting Based on Fuzzy-neural Network Combination Method</b> ""6: 33 <i>Shanzhi Li, Haoping Wang, Yang Tian Yanyan Shen and Abdel Aitouche</i>

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<b>Date/Time</b>	Monday, 25 May 2015 / 10:20-12:20
<b>Venue</b>	Room13
<b>Chair</b>	Zhao Wang, <i>China Univ. of Petroleum Univ. of Texas at San Antonio</i>
<b>Co-Chair</b>	Jia Ren, <i>Laboratory of Aeronautical Structures Imp act Dynamics, AVIC Aircraft Strength Research Inst.</i>

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12:00 – 12:20	MonB13-6	<b>Prediction of ship Pitch Motion by Dual Autoregressive Model</b> ""6: 68 <i>Wang Wei-chao, Qin Shi-qiao, WU Wei and Zheng Jia-xing</i>

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- MonBIS-9**      **Design of an Omnibearing Mobile Self-stationary Pan-tilt**""7377  
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<b>Date/Time</b>	Monday, 25 May 2015 / 13:20-15:20
<b>Venue</b>	Room01
<b>Chair</b>	Degang Xu, <i>Central South Univ.</i>
<b>Co-Chair</b>	Shidong Zhai, <i>Chongqing University of P osts and Telecommunications</i>

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15:00 – 15:20	MonC01-6	<b>Exact Controllability of a Star-Type Network""73: 9</b> <i>Lanping Wu, Jikun Zhou, Zhengzhong Yuan and Jianping Cai</i>

<b>Session</b>	<b>MonD02: Intelligent Systems (Chinese)</b>	
<b>Date/Time</b>	Monday, 25 May 2015 / 15:40-17:40	
<b>Venue</b>	Room02	
<b>Chair</b>	Shaobai Zhang, <i>Nanjing Univ. of Posts and Telecommuni cations</i>	
<b>Co-Chair</b>	Jianbo Liu, <i>Northeastern Univ. at Qinhuangdao</i>	
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16:00 – 16:20	MonD02-2	<b>Design and Implementation of Pavement Crack Detection System Based on FPGA""7; 58</b> <i>Li Jinghong, Zhang Yang and Wang Li</i>
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16:40 – 17:00	MonD02-4	<b>The Implementation Methods of Chinese Phonetic Brain-machine Interface Based on DIVA Model""7; 6:</b> <i>Shaobai Zhang and You Zeng</i>
17:00 – 17:20	MonD02-5	<b>Application of Association Rules Based on Fuzzy Formal Concept Analysis""7; 75</b> <i>Jianbo Liu, Xiaomin Wang, Yanyan Zhang and Hongbo Feng</i>
17:20 – 17:40	MonD02-6	<b>The Design of LSO Integrated Decision Model""7; 7:</b> <i>Li Yingzhen, Fu Limei and Chang Shuting</i>

<b>Session</b>	<b>MonD03: Sensor Network Systems (Chinese)</b>	
<b>Date/Time</b>	Monday, 25 May 2015 / 15:40-17:40	
<b>Venue</b>	Room03	
<b>Chair</b>	Guisheng Hou, <i>Nanjing Univ. of Scie. and Tech.</i>	
<b>Co-Chair</b>	Bing Chen, <i>Information Engineering Univ.</i>	
15:40 – 16:00	MonD03-1	<b>An Indoor Human Action Recognition Method based on Spatial Location Information""7; 85</b> <i>Tao Zhang, Wenye Meng, Hongwei Wang, Hongyan Wang, Wei Wu and Hongxi Wei</i>
16:00 – 16:20	MonD03-2	<b>Node Self-localization Algorithm for Wireless Sensor Networks Based on Modified Particle Swarm Optimization""7; 8:</b> <i>Liu Zhi-kun and Liu Zhong</i>
16:20 – 16:40	MonD03-3	<b>A New Efficient Path Design Algorithm for Wireless Sensor Networks with a Mobile Sink""7; 94</b> <i>Guisheng Hou, Xiaobei Wu, Cheng Huang and Zhiliang Xu</i>
16:40 – 17:00	MonD03-4	<b>Topology Analysis of Wireless Mesh Network Based on 802.11a""7; 9:</b> <i>Yi-jia Zhang and Jun Sun</i>

17:00 – 17:20	MonD03-5	<b>Application of Wireless Sensor Network in Yangtze River Basin Water Environment Monitoring""7; : 3</b> <i>Wang Jing and Liu Tingting</i>
17:20 – 17:40	MonD03-6	<b>A Study of Multi-sensor Management and Control Method based on Deviation""7; : 8</b> <i>Gao Yong, Luo Xuan, Chen Bing and Hou Xiaoning</i>

<b>Session</b>	<b>MonD04: Networked Control Systems (III) (Chinese)</b>
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<b>Venue</b>	Room04
<b>Chair</b>	Yan Zhang, <i>Shanghai Maritime Univ.</i>
<b>Co-Chair</b>	Jianming Xu, <i>Zhejiang Univ. of Tech.</i>

15:40 – 16:00	MonD04-1	<b>Design of Ship Course Networked Controllers Based on Generalized Predictive Control""7; ; 5</b> <i>Zhang Yan, Fan Lang, and Xu Cheng</i>
16:00 – 16:20	MonD04-2	<b>Design of Servo Drive Slaves Based on EtherCAT""7; ; ;</b> <i>Zhou Chang-Cheng, Xu Jian-Ming, Jin Yao, Mao Jie and Xu Lin-Tao</i>
16:20 – 16:40	MonD04-3	<b>Application of Blackboard Model based Multiagent Negotiation System in the Distributed Design of Device-layer Network""8227</b> <i>Bai Song, Gao Shihong, and Qian Xiaolong</i>
16:40 – 17:00	MonD04-4	<b>Fractance Circuit Design Based on a Method of Constructing the Rational Approximation Function in the Form of Factorization""8233</b> <i>Meng Wu, Chunyang Wang and Nianchun Cai</i>
17:00 – 17:20	MonD04-5	<b>Multi-rate Control and Pole Assignment for A Single Closed-loop in Networked Multi-rate Control System""8239</b> <i>Wang Zhiwen, Sun Hongtao and Zhang Xinguo</i>
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<b>Date/Time</b>	Monday, 25 May 2015 / 15:40-17:40
<b>Venue</b>	Room05
<b>Chair</b>	Binbin Chen, <i>Beihang Univ.</i>
<b>Co-Chair</b>	Li Liu, <i>Beijing Institute of Tech.</i>

15:40 – 16:00	MonD05-1	<b>Multi-UCAVs Targets Assignment Using Opposition-Based Genetic Algorithm""8248</b> <i>Yonglu Wen, Li Liu, Zhu Wang and Jiaxun Kou</i>
16:00 – 16:20	MonD05-2	<b>Target Assignment Based on Matrix Transform-Genetic Algorithm in Cooperative Air Combat""8253</b> <i>Yu Wang, Weiguo Zhang and Yong Li</i>
16:20 – 16:40	MonD05-3	<b>The Dynamic Migration Model for Cloud Service Resource Balancing Energy Consumption and QoS""8257</b> <i>He Luo, Jie Cao, Yongkang Wang and Xiaoxuan Hu</i>

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17:00 – 17:20	MonD05-5	<b>Combined Forecasting of the Vehicle Holdings Based on Gray-Neural Network""8267</b> <i>Wang Jun, Teng Yufa, Liu Ying and Yang Dianhua</i>
17:20 – 17:40	MonD05-6	<b>Manipulation Based on Information Model""8273</b> <i>Chen Binbin, Liu Shancun, Zhang Zhigang and Zeng Qingduo</i>

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<b>Date/Time</b>	Monday, 25 May 2015 / 15:40-17:40
<b>Venue</b>	Room06
<b>Chair</b>	Xiaomei Zhang, <i>Nantong Univ.</i>
<b>Co-Chair</b>	Ling Huang, <i>Harbin Univ. of Scie. and Tech.</i>

15:40 – 16:00	MonD06-1	<b>Consensus-Based Distributed Estimators in Sensor Networks with Sampled Information and Intermittent Communication Links""8279</b> <i>Lei Yan, Xiaomei Zhang and Jing Lv</i>
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16:40 – 17:00	MonD06-4	<b>New Stability Criterion for T-S Fuzzy Systems with Time-Varying Delay""8296</b> <i>Ling Huang, Hengyan Zhang and Xuhuan Xie</i>
17:00 – 17:20	MonD06-5	<b>New Delay-Probability-Distribution-Dependent Robust Stability Analysis for Uncertain Stochastic Genetic Regulatory Networks with Time-Varying Delays""829;</b> <i>Min Su, Zhongrui Hu, Xian Zhang, Yantao Wang and Tingting Liu</i>
17:20 – 17:40	MonD06-6	<b>Stability Analysis of Integral Delay Systems with Multiple Delays""82: 7</b> <i>Bin Zhou and Zhao-Yan LI</i>

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<b>Date/Time</b>	Monday, 25 May 2015 / 15:40-17:40
<b>Venue</b>	Room07
<b>Chair</b>	Zewei Zheng, <i>Beihang Univ.</i>
<b>Co-Chair</b>	Jianming Xu, <i>Zhejiang Univ.of Tech.</i>

15:40 – 16:00	MonD07-1	<b>The Sensorless Control of IPMSM Based on Improved Sliding-Mode Observer""82; 3</b> <i>Lisi Tian, Yang Liu, Jin Zhao and Jiajiang Sun</i>
16:00 – 16:20	MonD07-2	<b>Controlled Lagrangians Control for a Quadrotor Helicopter""82; 9</b> <i>Zewei Zheng, Ming Zhu, Zongyu Zuo and Keyu Yan</i>
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16:40 – 17:00	MonD07-4	<b>Stability Control of TORA with Environmental Disturbance""8329</b> <i>Zhang Yu, Guo Yuan-bo and Zhang Xiao-hua</i>
17:00 – 17:20	MonD07-5	<b>Design and Realization of Terminal Guidance Law for Passive Homing Interceptors""8333</b> <i>Huang Jingshuai, Zhang Hongbo, Li Guanghua and Tang Guojian</i>
17:20 – 17:40	MonD07-6	<b>Horizontal Plane Motion Control of AUV Based on Active Disturbance Rejection Controller""833:</b> <i>Li Juan, Kong Ming, Naeim Farouk and Chen Xing-hua</i>

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<b>Chair</b>	Xiaoqiang Zhao, <i>Lanzhou Univ.of Tech. Gansu Manufacturing Informationization Engineering Tech.Research Center</i>
<b>Co-Chair</b>	Zhe Gao, <i>Liaoning Univ.</i>

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16:00 – 16:20	MonD08-2	<b>Design and Analysis on Fractional-Order Tracking Differentiator""834:</b> <i>Junxiu Wei and Zhe Gao</i>
16:20 – 16:40	MonD08-3	<b>Face Detection Method Using Template Feature and Skin Color Feature in rgb Color Space""8355</b> <i>Zhu Youlian, Huang Cheng, Zhai Kun and Pan Lingjiao</i>
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17:00 – 17:20	MonD08-5	<b>Image Super-resolution Reconstruction Algorithm Based on Clustering""8366</b> <i>Zhao Xiaoqiang and Jia Yunxia</i>
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<b>Venue</b>	Room09
<b>Chair</b>	Yuanchun Li, <i>Jilin Univ. Changchun Univ. of Tech.</i>
<b>Co-Chair</b>	Liang Yang, <i>Univ. of Electronic Scie. and Tech. of China Guangdong Univ. of Tech.</i>

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16:00 – 16:20	MonD09-2	<b>Kicking Motion Planning of Nao Robots Based on CMA-ES""837:</b> <i>Xuejun Li, Zhiwei Liang and Huanhuan Feng</i>
16:20 – 16:40	MonD09-3	<b>Research on Optimal Tension Distribution of Cable-Driven Parallel Robot""8384</b> <i>Zhang Zhuo, Liang Yan-yang, Liu Hong-wei and Wang Xiao-jie</i>

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17:20 – 17:40	MonD09-6	<b>Moving Obstacle Avoidance for Redundant Manipulator via Weighted Least Norm Method</b> ""83: 3 <i>Peng Chen, Caihua Shan, Ji Xiang and Wei Wei</i>

<b>Session</b>	<b>MonD10: Instrumentation Systems</b>	
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<b>Co-Chair</b>	Tongyu Shi, <i>Northeastern Univ.</i>	
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16:00 – 16:20	MonD10-2	<b>Research of Volt-ampere Characteristics Testing Method for Photovoltaic Cells</b> ""83; 4 <i>Shitao Liang, Lixin Jia, Hui Cao and Rui Ma</i>
16:20 – 16:40	MonD10-3	<b>Effects of the Temperature and Roughness on the Metal Emissivity</b> ""83; 9 <i>Peng Wang, Zhi Xie, Hongji Meng and Zhenwei Hu</i>
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<b>Co-Chair</b>	Weihang Yan, <i>Northeastern Univ.</i>	
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16:00 – 16:20	MonD11-2	<b>A Voltage Perturbation Control of VSI with Estimator in Weak Microgrid</b> ""8443 <i>Weihang Yan, Shijie Yan, Wenzhong Gao and Jianhui Wang</i>

16:20 – 16:40	MonD11-3	<b>Head and End Users Collection Algorithms in a Transformer Area""8449</b> <i>Weifeng Wang, Xiong Li and Lequn Zhang</i>
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<b>Co-Chair</b>	Huaiyuan Wang, <i>Xi'an Jiaotong Univ.</i>	
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16:40 – 17:00	MonD13-4	<b>Parameter Estimation of Single-input Multiple-output Systems Using the Finite Impulse Response Approximation and Gradient Search""84; 3</b> <i>Yongsong Xiao and Yanjun Liu</i>
17:00 – 17:20	MonD13-5	<b>Parameter and Time-Delay Identification for MISO-FIR Systems Based on the Orthogonal Matching Pursuit Algorithm ""84; 8</b> <i>Taiyang Tao and Yanjun Liu</i>
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MonDIS-02	<b>Developmental Network and Its Application to Face Recognition""8532</b> <i>Dongshu Wang, Guangpu Zheng and Lei Liu</i>	
MonDIS-03	<b>Operation Efficiency Evaluation of Bank Based on Super Efficiency DEA Model""8538</b> <i>Liu Di and Kang Yu-Hong</i>	
MonDIS-04	<b>The Price Decision and Return Policy for E-business in a Fuzzy Environment""8542</b> <i>Ying Ai, Min Huang and Licai Lu</i>	
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MonDIS-11	<b>Bearing Fault Diagnosis Method Based on Singular Value Decomposition and Hidden Markov Model""8577</b> <i>Hongwu Xu, Yugang Fan, Jiande Wu, Yang Gao and Zhongli Yu</i>	
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