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SatAIS-39	<b>Research on Finite Time Control Method Based on Terminal Sliding Mode for Spacecraft Attitude</b> 555 <i>Zheng Yan and Cao Wei</i>
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SatAIS-43	<b>Global Convergence of a Class of Nonlinear Dynamical Networks</b> 576 <i>Ao Dun, Di Liang and Haijing Liu</i>
SatAIS-44	<b>A Hybrid Pareto-Based Algorithm for Multi-Objective Resource Allocation Problem</b> 581 <i>Jun-Qing Li, Quan-Ke Pan and Kun Mao</i>
SatAIS-45	<b>Second-Order Leader-Following Consensus of Nonlinear Multi-Agent Systems via Adaptive Pinning Control</b> 586 <i>Hongjie Li, Lihua Xu, Libin Xiao and Li Lin</i>
SatAIS-46	<b>Coordinating Multi-layer MPC for Complex Water Systems</b> 592 <i>Congcong Sun, Vicenç Puig and Gabriela Cembrano</i>
SatAIS-47	<b>Simulation of Fractional Order Control Based on IPMC Model</b> 598 <i>Chen Lanfeng and Xue Dingyu</i>

SatAIS-48	<b>Maximum Likelihood Stochastic Gradient Parameter Estimation Algorithm for Multi-Input Multi-Output Systems</b> 602 <i>Junhong Li, Ping Jiang and Yi Yang</i>
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<b>Date/Time</b>	Saturday, 31 May 2014 / 15:30-17:30	
<b>Venue</b>	Room02	
<b>Chair</b>	Jun Zhou	
<b>Co-Chair</b>	Bin Ye	
<b>15:30 – 15:50</b>	<b>SatB02-1</b>	<b>Random Matrix Analysis of Spectral Properties in Directed Complex Networks</b> 616 <i>Bin Ye, Kangwei Zuo and Jiajia Jia</i>
<b>15:50 – 16:10</b>	<b>SatB02-2</b>	<b>Controllability and (Ir-) Reducibility of Floquet Factorizations in Continuous-Time Periodic Systems</b> 621 <i>Jun Zhou</i>
<b>16:10 – 16:30</b>	<b>SatB02-3</b>	<b>A Quantum Dynamics Approach to Spectral Analysis in Small-World Complex Networks</b> 627 <i>Bin Ye and Shuai Xu</i>
<b>16:30 – 16:50</b>	<b>SatB02-4</b>	<b>Synchronization Analysis of Linear Complex Networks with Time Delays</b> 632 <i>Li Hailong, Xi Jianxiang, Song Haisong and Cao Yaoqin</i>
<b>16:50 – 17:10</b>	<b>SatB02-5</b>	<b>An Efficient Compressed Sensing-Based Cross-Layer Congestion Control Scheme for Wireless Sensor Networks</b> 637 <i>Chengtie Li, Jingkuan Wang, Bin Wang and Yinghua Han</i>
<b>17:10 – 17:30</b>	<b>SatB02-6</b>	<b>Improving Controllability of Complex Networks by Rewiring Links Regularly</b> 642 <i>Jiuqiang Xu, Jinfa Wang, Hai Zhao and Siyuan Jia</i>

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<b>Date/Time</b>	Saturday, 31 May 2014 / 15:30-17:30	
<b>Venue</b>	Room03	
<b>Chair</b>	Jing Fang, <i>Tongji Univ.</i>	
<b>Co-Chair</b>	Zhaoying Li, <i>Beihang Univ.</i>	
<b>15:30 – 15:50</b>	<b>SatB03-1</b>	<b>Launch Vehicle Ascent Trajectory Optimization Based on Modified Gauss Pseudospectral Method</b> 646 <i>Zhang QiuHong, Li Zhaoying and Li HuiFeng</i>

15:50 – 16:10	SatB03-2	<b>Trajectory Optimization of a Cruise Missile Using the Gauss Pseudospectral Method</b> 652 <i>Hu Yi and Chen Wanchun</i>
16:10 – 16:30	SatB03-3	<b>Design of a P-D Feedback Controller for Continuous-Time Descriptor Systems</b> 658 <i>Mengjuan Cao and Fucheng Liao</i>
16:30 – 16:50	SatB03-4	<b>Application of Genetic Algorithms in Football Field Lighting for Energy-Saving</b> 664 <i>Hui Xiao, Jing Fang, Ping Zhu and Qi Kang</i>
16:50 – 17:10	SatB03-5	<b>Set Divisions and Customer Point Collaborations-Based Heuristic Vehicle Routing with Appointment Time Window</b> 670 <i>Xu Zhengzheng and Tang Jiafu</i>
17:10 – 17:30	SatB03-6	<b>Finite-Time Convergent Guidance and Control Based on Integrated Model</b> 676 <i>Lin Lin, Songyan Wang, Tao Chao and Ming Yang</i>

<b>Session</b>	<b>SatB04: Nonlinear Systems (II)</b>	
<b>Date/Time</b>	Saturday, 31 May 2014 / 15:30-17:30	
<b>Venue</b>	Room04	
<b>Chair</b>	Yuan Gao, <i>Jilin Univ.</i>	
<b>Co-Chair</b>	Xiongjun Wu, <i>Shanghai Jiao Tong Univ.</i>	
15:30 – 15:50	SatB04-1	<b>Launch Control Strategy for AMT Vehicles Based on ADRC</b> 681 <i>Gao Yuan, Liu Qifang, Li Chao and Chen Hong</i>
15:50 – 16:10	SatB04-2	<b>Saturated Scheduling Anti-Windup Design: Static Case</b> 687 <i>Xiongjun Wu and Kun Cai</i>
16:10 – 16:30	SatB04-3	<b>On Pullback Attractors in <math>H^2</math> for Non-Autonomous Reaction-Diffusion Equations</b> 693 <i>Hongyan Li and Weisi Zhang</i>
16:30 – 16:50	SatB04-4	<b>Prediction for Chaotic Time Series of Optimized BP Neural Network Based on Modified PSO</b> 697 <i>Li Song, Hao Qing, Yue Ying-Ying and Liu Hao-Ning</i>
16:50 – 17:10	SatB04-5	<b>Finite-Time Stabilization of Fractional-Order Systems with Model Uncertainties and External Disturbances</b> 703 <i>Xiaomin Tian, Shumin Fei and Lin Chai</i>
17:10 – 17:30	SatB04-6	<b>Path Following Control of Non-Minimum Phase VTOL Aircraft via Minimum Distance Projection Method</b> 708 <i>Shanwei Su</i>
17:30 – 17:50	SatB04-7	<b>Robust Nonlinear Control Design For Scaled Yak-54 Unmanned Aerial Vehicle</b> 713 <i>Ussama Ali, M. Zamurad Shah, Amer Iqbal Bhatti and Raza Samar</i>

<b>Session</b>	<b>SatB05: Decision-Making Theory and Method (II)</b>	
<b>Date/Time</b>	Saturday, 31 May 2014 / 15:30-17:30	
<b>Venue</b>	Room05	
<b>Chair</b>	Channi Liu, <i>Hunan Univ.</i>	
<b>Co-Chair</b>	Qifa Jiang, <i>Yunnan Univ. of Finance and Economics</i>	
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<b>16:10 – 16:30</b>	<b>SatB05-3</b>	<b>Board of Directors Characteristics and Internal Control Quality: Evidence from Chinese-Listed Companies</b> 730 <i>Hui Lei and Channi Liu</i>
<b>16:30 – 16:50</b>	<b>SatB05-4</b>	<b>Research on Port Cooperation Game-Theory Based on Productivity Restrain</b> 736 <i>Huang Xiaoling and Gao Xiaonan</i>
<b>16:50 – 17:10</b>	<b>SatB05-5</b>	<b>Spare Parts Consumption Rolling Forecasting Model Based on Grey LSSVM</b> 742 <i>Shenyang Liu, Qi Gao, Yang Ge, Zhiwei Li and Zhirong Li</i>
<b>17:10 – 17:30</b>	<b>SatB05-6</b>	<b>Model Construction and Mechanism Analysis on the Power Systems of Enhance the Competitiveness of Innovative Enterprises</b> 745 <i>Wang Yumei and Wang Shuai</i>

<b>Session</b>	<b>SatB06: Neural Networks (II)</b>	
<b>Date/Time</b>	Saturday, 31 May 2014 / 15:30-17:30	
<b>Venue</b>	Room06	
<b>Chair</b>	Penghua Li, <i>Chongqing Univ. of Posts &amp; Telecommunications</i>	
<b>Co-Chair</b>	Tengfei Zhang, <i>Nanjing Univ. of Posts and Telecommunications</i>	
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<b>15:50 – 16:10</b>	<b>SatB06-2</b>	<b>Nonlinear Internal Model Control Based on Fuzzy Rough Granular Neural Networks</b> 757 <i>Zhang Tengfei, Tan Yaliang and Fumin Ma</i>
<b>16:10 – 16:30</b>	<b>SatB06-3</b>	<b>Hysteretic Neural Network and Its Application in the Prediction of the Wind Speed Series</b> 762 <i>Wang Hongfei, Xiu Chunbo, Li Yanqing, Cheng Yi and Chen Yimei</i>
<b>16:30 – 16:50</b>	<b>SatB06-4</b>	<b>An Improved Artificial Immune Network for Multimodal Function Optimization</b> 766 <i>Li Zhonghua, Li Jianming and Zhou Jieying</i>
<b>16:50 – 17:10</b>	<b>SatB06-5</b>	<b>Constrained Graph Concept Factorization for Image Clustering</b> 772 <i>Yuqing Shi, Shiqiang Du and Weilan Wang</i>

17:10 – 17:30      SatB06-6      **The Modeling for Pellets Induration Process Based on Bagging Method** 777  
*Xiaoke Fang, Jun Peng, Jianhui Wang and Xiao Wang*

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<b>Date/Time</b>	Saturday, 31 May 2014 / 15:30-17:30
<b>Venue</b>	Room07
<b>Chair</b>	Yuntao Shi, <i>North China Univ. of Tech.</i>
<b>Co-Chair</b>	Rui Bin, <i>Central South Univ., and Hunan Engineering Laboratory for Advanced Control and Intelligent Automation Changsha</i>

15:30 – 15:50      SatB07-1      **Hybrid Model Predictive Control and Fault Detection of Wind Energy Conversion System Based on Mixed Logical Dynamic** 782  
*Shi Yun-Tao, Qiao Shu-Juan, Hou Yan-Jiao, Li Zhi-Jun and Sun De-Hui*

15:50 – 16:10      SatB07-2      **Multiple Incipient Faults Prognosis for CCBII Braking System** 789  
*Yingze Yang, Rui Bin, Zhiwu Huang, Yufu Qin and Jiandui Yi*

16:10 – 16:30      SatB07-3      **A Parametric Design Method of Finite Time State Observers in Linear Time-Invariant Systems** 795  
*Guo-Sheng Wang, Fan Xia, Bing Liang, Feng Guo and Liu Feng*

16:30 – 16:50      SatB07-4      **Rolling Bearing Fault Diagnosis Based on Wavelet Energy Spectrum, PCA and PNN** 800  
*Keyong Shao, Miaomiao Cai and Guofeng Zhao*

16:50 – 17:10      SatB07-5      **Research on Fault Diagnosis Method for Complex Equipment Based on VPRS and NBNC** 805  
*Chao Zhang, Liang Liu, Xi Wang, Yang Yu and Yong Zhou*

17:10 – 17:30      SatB07-6      **Fault Diagnosis Method for Complex Equipment Using Cased-Based Reasoning** 810  
*Chao Zhang, Xi Wang, Yang Yu, Liang Liu and Yong Zhou*

<b>Session</b>	<b>SatB08: Motion Control (I)</b>
<b>Date/Time</b>	Saturday, 31 May 2014 / 15:30-17:30
<b>Venue</b>	Room08
<b>Chair</b>	Baomei Qiu, <i>Chongqing Univ.of Posts &amp; Telecommunications</i>
<b>Co-Chair</b>	Jing He, <i>Hunan Univ.of Tech. and Natiaonal Univ.of Defense Tech.</i>

15:30 – 15:50      SatB08-1      **Control and Design of Small Aerial Photography Stabilized Platform** 816  
*Baomei Qiu, Penghua Li, Peipei Chen and Yinguo Li*

15:50 – 16:10      SatB08-2      **A Multi-Motor Synchronous Control Algorithm for Artificial Potential Field with Adjacent Attractive Force** 820  
*Changfan Zhang, Mangang Niu, Han Wu, Jing He and Yuanyuan Xiao*

16:10 – 16:30      SatB08-3      **Optimization Method Based Swing-Up Control and Visual Validation for Rail Length-Limited Parallel-Coupled Cart-Pendulums System** 826  
*Mengqi Xue and Minrui Fei*

16:30 – 16:50	SatB08-4	<b>A Practical Approach to Motion Control for Planar Multi-Rigid-Body Systems</b> 834 <i>Rongqi Shi and Jie Peng</i>
16:50 – 17:10	SatB08-5	<b>Design and Analysis of Plug-in Repetitive Controller for Zero-Following Performance</b> 840 <i>Zeyuan Li, Wennong Zhang, Hiroshi Nakamura, Minoru Koga and Xiang Xu</i>
17:10 – 17:30	SatB08-6	<b>Study on BDFG Control Strategy with Unbalanced Loads</b> 847 <i>Zhang Shuai and Liu Huikang</i>

<b>Session</b>	<b>SatB09: Networked Agents: Coordinated Sensing, Localization and Control (Invited Session)</b>
<b>Date/Time</b>	Saturday, 31 May 2014 / 15:30-17:30
<b>Venue</b>	Room09
<b>Chair</b>	Xiangke Wang, <i>National University of Defense Technology</i>
<b>Co-Chair</b>	Changbin Yu, <i>The Australian National University</i>

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15:50 – 16:10	SatB09-2	<b>Distributed Robust Leaderless Consensus of Lipschitz Nonlinear Multi-Agent Systems with Matching Uncertainties</b> 858 <i>Zhongkui Li, Yu Zhao and Zhisheng Duan</i>
16:10 – 16:30	SatB09-3	<b>Autonomous Target Localization Using Quadrotor</b> 864 <i>Yun Hou and Changbin Yu</i>
16:30 – 16:50	SatB09-4	<b>A Time Synchronization Method of Wireless Sensor Networks Based on the Simulated Annealing Algorithm</b> 870 <i>Fuqiang Wang, Xiaoming Wu, Yong Pang, Changbin Yu, Yifan Hu and Xiangzhi Liu</i>
16:50 – 17:10	SatB09-5	<b>A Novel Approach to NLOS Identification in Sensor Localization</b> 876 <i>Wenye Meng, Baoqi Huang and Guanglai Gao</i>
17:10 – 17:30	SatB09-6	<b>Nonlinear Consensus Under Directed Graph via the Edge Laplacian</b> 881 <i>Zhiwen Zeng, Xiangke Wang and Zhiqiang Zheng</i>
17:30 – 17:50	SatB09-7	<b>A Particle Swarm Algorithm Based Routing Recovery Method for Mobile Sink Wireless Sensor Networks</b> 887 <i>Yi-Fan Hu, Xiao-Ming Wu, Fu-Qiang Wang and Hua Han</i>



<b>Session</b>	<b>SatB10: Stability and Control of Networked Control Systems (Invited Session)</b>	
<b>Date/Time</b>	Saturday, 31 May 2014 / 15:30-17:30	
<b>Venue</b>	Room10	
<b>Chair</b>	Xi-Ming Sun, <i>Dalian University of Technology</i>	
<b>Co-Chair</b>	Huawen Ye, <i>Central South University</i>	
<b>15:30 – 15:50</b>	<b>SatB10-1</b>	<b>A New Stability Criterion for Networked Predictive Control System with Varying Controller Gains Scheme</b> 893 <i>Sheng-Li Du, Xi-Ming Sun, Wei Wang and Chong-Quan Zhong</i>
<b>15:50 – 16:10</b>	<b>SatB10-2</b>	<b>Fuzzy-Model-Based Stabilization of Nonlinear Networked Control Systems</b> 898 <i>Jianan Huang, Bing Tang, Defeng He and Yun Zhang</i>
<b>16:10 – 16:30</b>	<b>SatB10-3</b>	<b>Continuous-Time Markov Chains Based <math>H_\infty</math> Control of Networked Control Systems</b> 906 <i>Qing-Kui Li, Ning Yang, Wei-Wei Gao and Mei Li</i>
<b>16:30 – 16:50</b>	<b>SatB10-4</b>	<b>Set Stability of Boolean Networks via Quotient Mappings</b> 912 <i>Wang Pan and Guo Yuqian</i>
<b>16:50 – 17:10</b>	<b>SatB10-5</b>	<b>The Flocking and Formation of Multiple Agents Based on Multiple Virtual Leaders</b> 918 <i>Siming Li and Huawen Ye</i>
<b>17:10 – 17:30</b>	<b>SatB10-6</b>	<b>Controller Design for Observer-Based Continuous-Time Networked Control Systems with Packet Dropout and Delay</b> 923 <i>Wang Tian-Bao, Wang Yu-Long, Zhang Jian and Feng Yi-Fu</i>

<b>Session</b>	<b>SatB11: On the Robust and Adaptive Control for the Hypersonic Flight Vehicles (Invited Session)</b>	
<b>Date/Time</b>	Saturday, 31 May 2014 / 15:30-17:30	
<b>Venue</b>	Room11	
<b>Chair</b>	Bin Meng, <i>Beijing Institute of Control Engineering</i>	
<b>Co-Chair</b>	Hong-Fei Sun, <i>Xiamen Univ</i>	
<b>15:30 – 15:50</b>	<b>SatB11-1</b>	<b>Research Progresses on Characteristic Model-Based Control of Hypersonic Flight Vehicles</b> 929 <i>Meng Bin</i>
<b>15:50 – 16:10</b>	<b>SatB11-2</b>	<b>On the Feedback Linearization Control for Hypersonic Flight Vehicle Analogy X20</b> 934 <i>Gong Yulian and Meng Bin</i>
<b>16:10 – 16:30</b>	<b>SatB11-3</b>	<b>Robust Adaptive Tracking Control for Air-Breathing Hypersonic Vehicles</b> 939 <i>Zhilong Yang, Bin Meng and Hongfei Sun</i>
<b>16:30 – 16:50</b>	<b>SatB11-4</b>	<b>Tracking Control for Air-Breathing Hypersonic Vehicles Based on Active Disturbance Rejection Control Technique</b> 944 <i>Yan Jinke and Sun Hongfei</i>

16:50 – 17:10	SatB11-5	<b>Distributed Adaptive Attitude Consensus of Networked Spacecraft on Directed Graphs</b> 950 <i>Lijiao Wang</i>
17:10 – 17:30	SatB11-6	<b>Current Research and New Trends on Flight Control of Air-Breathing Hypersonic Cruise Vehicles</b> 956 <i>Li Gongjun</i>

Session	SatBIS: Interactive Session	
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SatBIS-2	<b>An Improved Harmony Search Algorithm with Dynamic Control Parameters for Continuous Optimization Problems</b> 966 <i>Biao Zhang, Huihui Yan, Junhua Duan, J. J. Liang, Hong-Yan Sang and Quan-Ke Pan</i>	
SatBIS-3	<b>The Application of Ascending Iterative Optimization Algorithm</b> 972 <i>Xu Yi</i>	
SatBIS-4	<b>The Research and Application of Laying Photovoltaic Battery with the Optimal Obliquity</b> 976 <i>Jie Zhang, Lianjie Shan, Feng Li and Tingyu Gao</i>	
SatBIS-5	<b>The Study of Two Stage Optimization Model of PV Installation Design</b> 980 <i>Jie Zhang, Chao Yin, Menggang Jiao and Wenyu Liu</i>	
SatBIS-6	<b>Gain Estimates and Exponential ISS for a Class of Hybrid Dynamical Networks</b> 985 <i>Bin Liu, Chunxia Dou and Dong-Nan Liu</i>	
SatBIS-7	<b>A Predictive Current Control Strategy for Grid Side Converter in Doubly-Fed Wind Power System</b> 991 <i>Shen Yang, Zhang Li, Chen Hui, Lu Xianfeng and Qian Zhong</i>	
SatBIS-8	<b>The Basic Properties and Algorithm of a Linear Bilevel Programming Model with Multiple Followers</b> 994 <i>Shengyue Deng, Yangjin Cheng and Xinfan Wang</i>	
SatBIS-9	<b>Improved Ant Colony Based Multi-Objective Multi-Task Routing for 4PL Under Non-Reusable Capacity</b> 1000 <i>Ren Liang and Huang Min</i>	
SatBIS-10	<b>Two Modified PRP Conjugate Gradient Methods with Sufficient Descent Property for Unconstrained Optimization</b> 1005 <i>Yubin Zhou, Zhongbo Sun, Xudong Shi and Yinghui Teng</i>	
SatBIS-11	<b>Solving Multiobjective Optimal Reactive Power Dispatch Using Improved Multiobjective Particle Swarm Optimization</b> 1010 <i>Yujiao Zeng and Yanguang Sun</i>	
SatBIS-12	<b>Application of Quantum-Behaved Particle Swarm Optimization Algorithm</b> 1016 <i>Wang Shanli, Long Jun and Wei Zhiyi</i>	
SatBIS-13	<b>Optimization Chemical Control in Integrated Pest Management</b> 1022 <i>Hongjun Guan</i>	

SatBIS-14	<b>Prediction Model of Non-Stationary Time Series Parameters for a Complex Blending Process</b> 1027 <i>Lijun Xi, Lingshuang Kong, Shenping Xiao and Gang Chen</i>
SatBIS-15	<b>Combining CA and PSO to Solve Flexible Job shop Scheduling Problem</b> 1031 <i>Zhou Wei, Bu Yan-Ping and Zhou Ye-Qing</i>
SatBIS-16	<b>An Improved NSGA-II to Solve Multi-Objective Optimization Problem</b> 1037 <i>Yaping Fu, Min Huang, Hongfeng Wang and Guanjie Jiang</i>
SatBIS-17	<b>Guidance Law Modeling Based on the Ideal Line-of-Sight with Constraint of the Terminal Flight Angle and Acceleration</b> 1041 <i>Li Hao and She Haoping</i>
SatBIS-18	<b>Research on Partner Selection Problem of Virtual Enterprise Based on Improved Genetic Algorithm</b> 1047 <i>Zhou Wei, Bu Yan-Ping and Zhou Ye-Qing</i>
SatBIS-19	<b>Feedback-Assisted Iterative Learning Control Based on a Nonlinear Fuzzy Model</b> 1053 <i>Ke Xi and Xiangjie Liu</i>
SatBIS-20	<b>Nonlinear Multivariable Supervisory Predictive Control for Drum-Type Boiler-Turbine System</b> 1058 <i>Yubin Jia and X. J. Liu</i>
SatBIS-21	<b>Reactive Power Optimization of Electric Power System Incorporating Wind Power Based on Parallel Immune Particle Swarm Optimization</b> 1064 <i>Wang Tianhong, Yuan Guili, Zhu Lei and Yu Tong</i>
SatBIS-22	<b>The UAV Dynamic Path Planning Algorithm Research Based on Voronoi Diagram</b> 1069 <i>Xia Chen and Xiangmin Chen</i>
SatBIS-23	<b>A Fast Weight Optimization Method in <math>H_\infty</math> Loop-Shaping Design for Single Input Single Output System</b> 1072 <i>Liu Yuyan and Zhou Shiliang</i>
SatBIS-24	<b>An Off-Line Approach to Dynamic Output Feedback Robust Model Predictive Control with Ellipsoidal Estimation Error Set</b> 1078 <i>Xubin Ping, Ning Sun and Baocang Ding</i>
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SatBIS-27	<b>Optimal Guidance Law in Quantum Mechanics</b> 1095 <i>Ciann-Dong Yang, Lieh-Lieh Cheng and Ming-Hsien Hsia</i>
SatBIS-28	<b>The Optimization Model and Algorithm Study of Photovoltaic Cells Installation and Design</b> 1101 <i>Ru Qu, Ruonan Xu, Yuting Bian and Yue Liu</i>
SatBIS-29	<b>Application of Quorum Sensing to PSO and MOPSO for Convergence Promotion</b> 1106 <i>Shan Cheng, Gang Hu and Tian-Ya Qin</i>
SatBIS-30	<b>Research of Urban Green Space Distribution Based on Convex Programming Model</b> 1111 <i>Yue Xiao-Ning, Wu Meng-Xiang and Ding Yue</i>

SatBIS-31	<b>Comparative Study on Several PSO Algorithms</b> 1117 <i>Weichang Jiang, Yating Zhang and Ruihua Wang</i>
SatBIS-32	<b>Research of Harmony Search Algorithm Based on Variable Metric Method</b> 1120 <i>Qi Wei and Liu Xuwang</i>
SatBIS-33	<b>A New Sample Update Strategy Based on Kringing</b> 1124 <i>Chen Yuanyuan, Bai Junqiang and Wang Dan</i>
SatBIS-34	<b>An Improved Quantum Particle Swarm Optimization and Its Application in System Identification</b> 1132 <i>Huang Yu, Xiao Tiantian and Han Pu</i>
SatBIS-35	<b>Some Necessary and Sufficient Conditions for Containment Control of the Second-Order Multi-Agent Systems</b> 1135 <i>Bin Qi, Baotong Cui and Xiaojiao Zhang</i>
SatBIS-36	<b>Finite-Time Attitude Consensus Tracking with Terminal Sliding Mode Observer</b> 1141 <i>Xinsheng Wang, Huaqiang Zhang and Changxi Li</i>
SatBIS-37	<b>Consensus of Multi-Agent Nonlinear Dynamic Systems Under Slow Switching Topology</b> 1147 <i>Junwei Wang, Kairui Chen and Yun Zhang</i>
SatBIS-38	<b>Mean Square Synchronization of Nonlinear Multi-Agent Systems under Measurement Noises</b> 1153 <i>Wenhui Liu, Feiqi Deng, Jiarong Liang and Hongwei Ren</i>
SatBIS-39	<b>A New Consensus Protocol for High Order Multi-Agent Systems</b> 1159 <i>Li Changbin, Du Chunyan and He Yi</i>
SatBIS-40	<b>Synchronization Control of Multi-Finger Dexterous Hand Based on Iterative Learning Control Scheme</b> 1162 <i>Lei Chen, Ming-Feng Ge, Ding-Xin He, Zhi-Hong Guan and Yan-Wu Wang</i>
SatBIS-41	<b>A Kind of Soft Sensing Method for Biomass Concentration of Phytoplankton in Seawater</b> 1167 <i>Zhang Ying and Shi Jia</i>
SatBIS-42	<b>Primary Research on the System Identification Method of Pitching and Heave Motion of Composite Trimaran</b> 1172 <i>Zhu Feng and Yang Songlin</i>
SatBIS-43	<b>Research on Measurement of Infrared Spectral Radiant Intensity of Aero-Engine Exhaust System</b> 1177 <i>Yanmei Liu, Li Fu, Jianhui Xi and Yan Ren</i>
SatBIS-44	<b>New Self-Calibration Schemes for Accelerometers of Platform</b> 1181 <i>Li Chan, Cao Yuan, Ding Zhi-Jian and Cai Hong</i>
SatBIS-45	<b>Identification of MIMO Hammerstein-Wiener System</b> 1186 <i>Jing Bai, Zhizhong Mao, Feng Yu and Yajun Wang</i>
SatBIS-46	<b>MIMO System Identification with Extended MADALINE Neural Network Trained by Levenberg-Marquardt Method</b> 1191 <i>Wenle Zhang</i>
SatBIS-47	<b>A Novel Approach for Modelling of an Injector Powered Transonic Wind Tunnel</b> 1197 <i>Wei Rui, JianHua Qin and YongYi Ma</i>
SatBIS-48	<b>Gradient-Based Iteration for a Class of Matrix Equations</b> 1201 <i>Huamin Zhang and Rui Ding</i>

- SatBIS-49                    **Attitudes Decoupling Control and Disturbance Compensation of the Hypersonic Vehicle** 1206  
*Yan Zhiqiang, Mu Jianhua, Qu Jishuang and Xia Weiwei*
- SatBIS-50                    **Research of Optimized Adaptive Kalman Filtering** 1212  
*Xu Fuzhen, Su Yongqing and Liu Hao*

<b>Session</b>	<b>SunA01: Process Control (I)</b>	
<b>Date/Time</b>	Sunday, 01 June 2014 / 10:20-12:20	
<b>Venue</b>	Room01	
<b>Chair</b>	Wen Tan, <i>North China Electric Power Univ.</i>	
<b>Co-Chair</b>	Yan Liu, <i>Northeastern Univ.</i>	
<b>10:20 – 10:40</b>	<b>SunA01-1</b>	<b>Levant Differentiator Based Output-Feedback Control for Sloss Suppression Using Super-Twisting Algorithm</b> 1215 <i>Jyoti Prakash Mishra and Shailaja R. Kurode</i>
<b>10:40 – 11:00</b>	<b>SunA01-2</b>	<b>Complex Process Operating Optimality Assessment and Nonoptimal Cause Identification Using Modified Total Kernel PLS</b> 1221 <i>Yan Liu, Yuqing Chang, Fuli Wang, Ruicheng Ma and Honglin Zhang</i>
<b>11:00 – 11:20</b>	<b>SunA01-3</b>	<b>Adaptive EWMA Controller based on Dynamic Modeling in Semiconductor Manufacturing</b> 1228 <i>Ge Cuicui, Chen Liang and Wang Feilong</i>
<b>11:20 – 11:40</b>	<b>SunA01-4</b>	<b>Multivariable Decoupling Control for a Benchmark Boiler</b> 1233 <i>Damiran Ulemj, Caifen Fu and Wen Tan</i>
<b>11:40 – 12:00</b>	<b>SunA01-5</b>	<b>Multivariable PID Controller Design for a Benchmark Boiler</b> 1238 <i>Damiran Ulemj, Caifen Fu and Wen Tan</i>
<b>12:00 – 12:20</b>	<b>SunA01-6</b>	<b>Design and Implementation of a Microwave Heating System Based on Dual-Closed Loop Control Strategy</b> 1243 <i>Yupeng Yuan, Shan Liang, Qingyu Xiong, Jiaqi Zhong and Zhihui Wang</i>

<b>Session</b>	<b>SunA02: Robust Control (II)</b>	
<b>Date/Time</b>	Sunday, 01 June 2014 / 10:20-12:20	
<b>Venue</b>	Room02	
<b>Chair</b>	Junli Wu, <i>Huaqiao Univ.</i>	
<b>Co-Chair</b>	Fangfang Hu, <i>Harbin Institute of Tech.</i>	
<b>10:20 – 10:40</b>	<b>SunA02-1</b>	<b>Model Predictive Control for Drum Water Level of Boiler Systems</b> 1249 <i>Junli Wu, Kaiyong Jiang, Hamid Reza Karimi and Xiaojie Su</i>
<b>10:40 – 11:00</b>	<b>SunA02-2</b>	<b>Robust Fault-Tolerant Attitude Control of Three-Axis Stabilized Satellite</b> 1254 <i>Chen Xueqin, Hu Fangfang, Sun Yahui and Sun Rui</i>
<b>11:00 – 11:20</b>	<b>SunA02-3</b>	<b>Decentralized Fuzzy Guaranteed Cost Tracking Control with Poles Assignment for Bank-to-Turn Missile</b> 1260 <i>Shi Kun and Liang Xiao-Geng</i>

11:20 – 11:40	SunA02-4	<b>Delay-Interval-Dependent Robust Stabilization for Uncertain Stochastic System with Multiple Time-Delays</b> 1266 <i>Huihui Zhang and Jianwei Xia</i>
11:40 – 12:00	SunA02-5	<b>Integral Sliding Mode Output Control of Delta Operator Systems with Insensitivity to Sampling Time Jitter</b> 1272 <i>Li-Ying Hao, Hui Li, Xiang-Gui Guo, Jinyan Song and Hongshuai Pang</i>
12:00 – 12:20	SunA02-6	<b>Integral Sliding Mode Fault-Tolerant Control Against Actuator Nonsymmetric Deadzone and Unmatched Disturbances</b> 1278 <i>Li-Ying Hao, Hui Li, Xiang-Gui Guo, Jinyan Song and Hongshuai Pang</i>

<b>Session</b>	<b>SunA03: Optimal Control and Optimization (III)</b>
<b>Date/Time</b>	Sunday, 01 June 2014 / 10:20-12:20
<b>Venue</b>	Room03
<b>Chair</b>	Junwei Li, <i>Henan Univ.</i>
<b>Co-Chair</b>	Zhe Gao, <i>Liaoning Univ.</i>

10:20 – 10:40	SunA03-1	<b>Fractional-Order Particle Swarm Optimization</b> 1284 <i>Zhe Gao, Junxiu Wei, Chao Liang and Ming Yan</i>
10:40 – 11:00	SunA03-2	<b>Transportation and Effect on Economic Growth Based on Optimal Control Theory</b> 1289 <i>Yushun Tan, Senfa Chen, Yuanyuan Zhang and Jinliang Liu</i>
11:00 – 11:20	SunA03-3	<b>Aerodynamic Optimization Utilizing Control Theory</b> 1293 <i>Xiaoliang Zhang and Junqiang Bai</i>
11:20 – 11:40	SunA03-4	<b>Tracking Guidance Strategy for Low-Thrust Transfer Trajectory Based on NMPC Theory</b> 1299 <i>Hai-Bin Shang, Shuai Wang, Ting Jin and Huang Xiang-yu</i>
11:40 – 12:00	SunA03-5	<b>New Structure of Kalman Filter Base on Adaptive Genetic Algorithm for Radar Networking</b> 1305 <i>Yan Mingming and Pan Wei</i>
12:00 – 12:20	SunA03-6	<b>Chaotic Particle Swarm Optimization Algorithm Based on Adaptive Inertia Weight</b> 1310 <i>Jun-Wei Li, Yong-Mei Cheng and Ke-Zhe Cheng</i>

<b>Session</b>	<b>SunA04: Intelligent Systems (I)</b>
<b>Date/Time</b>	Sunday, 01 June 2014 / 10:20-12:20
<b>Venue</b>	Room04
<b>Chair</b>	Feng Liu, <i>Tsinghua Univ.</i>
<b>Co-Chair</b>	Zhongliang Zhang, <i>Northeastern Univ.</i>

10:20 – 10:40	SunA04-1	<b>Online and Model-Free Supplementary Learning Control Based on Approximate Dynamic Programming</b> 1316 <i>Wentao Guo, Feng Liu, Jennie Si and Shengwei Mei</i>
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10:40 – 11:00	SunA04-2	<b>The Application of Adaptive Genetic Algorithms in Single-Resistant Radar Jamming</b> 1322 <i>Pan Wei, Liu Sili and Dong Hongzhi</i>
11:00 – 11:20	SunA04-3	<b>The Application of Data Mining in Cigarette Sensory Quality Evaluation: An Experimental Study</b> 1328 <i>Zhang Zhongliang, Tang Jianguo, Luo Xinggang, Tang Jiafu, Meng Zhaoyu and Qiao Danna</i>
11:20 – 11:40	SunA04-4	<b>Non-Integer Norm Regularized Logistic Regression</b> 1333 <i>Liu Jianwei, Sun Zhengkang and Luo Xiongli</i>
11:40 – 12:00	SunA04-5	<b>Multi-Objective Comprehensive Learning Particle Swarm Optimization Based on Summation of Normalized Objectives and Diversified Selection</b> 1339 <i>Bo Zheng, B. Y. Qu, J. J. Liang and Hui Song</i>
12:00 – 12:20	SunA04-6	<b>Research on Water Level Measurement Based on Image Recognition for Industrial Boiler</b> 1344 <i>Sun Bin, Changsheng Zhang, Lun Li and Jianping Wang</i>

<b>Session</b>	SunA05: Decision-Making Theory and Method (III)
<b>Date/Time</b>	Sunday, 01 June 2014 / 10:20-12:20
<b>Venue</b>	Room05
<b>Chair</b>	Quande Qin, <i>Shenzhen Univ.</i>
<b>Co-Chair</b>	Jianlong Zhang, <i>Shanxi Prov. Water Conservancy Construction and Development Centers</i>

10:20 – 10:40	SunA05-1	<b>A Fuzzy Two-Stage Project Portfolio Selection Model Addressing Financial and Non-Financial Factors</b> 1349 <i>Quande Qin, Jinpeng Li and Li Li</i>
10:40 – 11:00	SunA05-2	<b>Water Supply Route Optimization for Reservoir Emergency Based on Improved Ant Colony Algorithm</b> 1354 <i>Du Xiang-Run, Zhang Jian-Long and Feng Min-Quan</i>
11:00 – 11:20	SunA05-3	<b>Survivability Evaluation of Network Combat System Based on Gray Theory</b> 1360 <i>Wang Kaiyun, Huang He, Jia Peng, Luo Ying and Jang Hong</i>
11:20 – 11:40	SunA05-4	<b>Robust Operation Optimization in Cold Rolling Production Process</b> 1365 <i>Hong Yue and Wang Xianpeng</i>
11:40 – 12:00	SunA05-5	<b>An Approach to Deriving Interval Weights from Interval Fuzzy Preference Relations Based on Multiplicative Transitivity</b> 1371 <i>Hao Wang and Zhou-Jing Wang</i>
12:00 – 12:20	SunA05-6	<b>UAV Real-Time Path Planning Using Dynamic RCS Based on Velocity Vector Field</b> 1376 <i>Meng Guanglei, Guo Jinlong, Sun Fengqin and Tian Feng</i>

<b>Session</b>	<b>SunA06: Fault Diagnosis and Fault-Tolerant Control (III)</b>		
<b>Date/Time</b>	Sunday, 01 June 2014 / 10:20-12:20		
<b>Venue</b>	Room06		
<b>Chair</b>	Ziyang Qi, <i>Harbin Institute of Tech.</i>		
<b>Co-Chair</b>	Jun Guo, <i>Beijing Univ. of Tech.</i>		
<b>10:20 – 10:40</b>	<b>SunA06-1</b>	<b>Modeling of Hemispherical Resonator Gyro Resonator Deformation Under Acceleration</b> 1381 <i>Yi Guoxing, Xie Yangguang, Wang Changhong, Qi Ziyang and Fang Zhen</i>	
<b>10:40 – 11:00</b>	<b>SunA06-2</b>	<b>Study on Automatic Diagnostic of Elevator Brake Coil Wearing</b> 1386 <i>Jun Guo and Jinwei Fan</i>	
<b>11:00 – 11:20</b>	<b>SunA06-3</b>	<b>The Fault Diagnosis Research for the Underwater Vehicle System Based on SOFCMAC</b> 1390 <i>Ting Zhu and Daqi Zhu</i>	
<b>11:20 – 11:40</b>	<b>SunA06-4</b>	<b>Fault Detection Using Unknown Input Observers for Heavy-Haul Trains</b> 1395 <i>Yu Zhiheng, Peng Jun, Liu Weirong, Qin Yufu and Yi Jiandui</i>	
<b>11:40 – 12:00</b>	<b>SunA06-5</b>	<b>Steel Surface Defect Detection and Localization Based on SVD and Two-Side Compressive Measurements</b> 1401 <i>Jingli Gao, Chenglin Wen and Meiqin Liu</i>	
<b>12:00 – 12:20</b>	<b>SunA06-6</b>	<b>Researches on Brittle Seam Mining Based Enterprise Situation Assessment and Prediction Mechanism in Hi-Tech Enterprise Cooperation-Competition Network</b> 1407 <i>Yi Zhuo and Shijun Yao</i>	

<b>Session</b>	<b>SunA07: Social Economy Systems</b>		
<b>Date/Time</b>	Sunday, 01 June 2014 / 10:20-12:20		
<b>Venue</b>	Room07		
<b>Chair</b>	Xin Tong, <i>Northeastern Univ.</i>		
<b>Co-Chair</b>	Kongguo Zhu, <i>Library of Shandong Youth Univ. of Political Scie.</i>		
<b>10:20 – 10:40</b>	<b>SunA07-1</b>	<b>Correlation Analysis of Carbon Emissions and Influencing Factors in China</b> 1413 <i>Tong Xin and Chen Kai</i>	
<b>10:40 – 11:00</b>	<b>SunA07-2</b>	<b>Simulating Approach Based Optimal Manpower Planning in an Employee Leasing Center and the Approximate Algorithm</b> 1418 <i>Zhang Xiufu, Hao Gang, Gou Zhijing, Sun Bin and Sun Junqing</i>	
<b>11:00 – 11:20</b>	<b>SunA07-3</b>	<b>Analysis of the Factors Affecting the Credit Risk of China's Listed Companies</b> 1424 <i>Wei Dong, Wang Yu-Yan and Zhang Zhi-Xin</i>	
<b>11:20 – 11:40</b>	<b>SunA07-4</b>	<b>Research on the Improvement Effect of Lean Thinking to Construction Safety Management</b> 1428 <i>Kongguo Zhu and Jinggang Lv</i>	



11:40 – 12:00	SunA07-5	<b>On Labor Force Unemployment of Each Region in Harbin in China</b> 1434 <i>Wei Wang, Yonggang Ye and Jirong Zhao</i>
12:00 – 12:20	SunA07-6	<b>Type Selection of Tourism Supply Chain and Its Safeguard Mechanism</b> 1438 <i>Danhong Chen</i>

<b>Session</b>	<b>SunA08: Control Applications (I)</b>
<b>Date/Time</b>	Sunday, 01 June 2014 / 10:20-12:20
<b>Venue</b>	Room08
<b>Chair</b>	Rongqi Shi, <i>Tsinghua Univ.</i>
<b>Co-Chair</b>	Yan Liu, <i>Chinese Academy of Scie.</i>

10:20 – 10:40	SunA08-1	<b>Design of Active Disturbance Rejection Control System for Morphing Flight Dynamics</b> 1443 <i>Rongqi Shi and Jie Peng</i>
10:40 – 11:00	SunA08-2	<b>A Study on the Sync Guidance of the Multi-Lasers with the Micro-Vision</b> 1449 <i>Liu Yan, Liu FangFang and Zou Wei</i>
11:00 – 11:20	SunA08-3	<b>Local Hopf Bifurcation Analysis of Logistic Population Dynamics Models with Two Delays</b> 1454 <i>Sreelakshmi Manjunath and Gaurav Raina</i>
11:20 – 11:40	SunA08-4	<b>Simulation of the Ship Burble in a Cooperative Carrier Approach Pattern</b> 1461 <i>Ran Dong and Guihua Xia</i>
11:40 – 12:00	SunA08-5	<b>Study of FPGA-Based Visual Detection for Pointer Dial</b> 1467 <i>Bin Sun, Changsheng Zhang, Ziyu Liu, Bin Qian and HanPing Zhang</i>
12:00 – 12:20	SunA08-6	<b>Partial Feed-Forward Decoupling Based PI Control of CFBB Combustion System</b> 1473 <i>Liu Ji-Zhen and Zhong Zhen-Fang</i>

<b>Session</b>	<b>SunA09: Robot Control (I)</b>
<b>Date/Time</b>	Sunday, 01 June 2014 / 10:20-12:20
<b>Venue</b>	Room09
<b>Chair</b>	Ji Xiang, <i>Zhejiang Univ.</i>
<b>Co-Chair</b>	Xuezhu Wang, <i>Univ. of Chinese Academy of Scie.</i>

10:20 – 10:40	SunA09-1	<b>Kinematic Control for Redundant Manipulators with Time Dependent Constraints: General-Weighted Least-Norm Method</b> 1478 <i>Pei Jiang, Ji Xiang and Wei Wei</i>
10:40 – 11:00	SunA09-2	<b>Adaptive Backstepping Control of Flexible Joint Robots with Friction Compensation Based on LuGre Model</b> 1484 <i>Xuezhu Wang, Hongyi Li, Yuechao Wang and Jianning Hua</i>
11:00 – 11:20	SunA09-3	<b>Multi-Smart Car Control System Design and Research Based on ZigBee</b> 1490 <i>Chuan Wang, Zhongyu Shen, Engang Tian and Qiwen Zheng</i>

11:20 – 11:40	SunA09-4	<b>A Kinematics Analysis for a 5-DOF Manipulator</b> 1495 <i>Jinyan Lu, De Xu and Peng Wang</i>
11:40 – 12:00	SunA09-5	<b>A Fast Human Detection Algorithm of Video Surveillance in Emergencies</b> 1500 <i>Ma Juan, Hu Rongchun and Li Jian</i>
12:00 – 12:20	SunA09-6	<b>Receding Horizon Control for Mobile Robot Path Planning in Unknown Dynamic Environments</b> 1505 <i>Yang Chen, Lei Cheng, Huaiyu Wu and Yanhua Yang</i>

<b>Session</b>	<b>SunA10: Electric Vehicles and Intelligent Transportation</b>	
<b>Date/Time</b>	Sunday, 01 June 2014 / 10:20-12:20	
<b>Venue</b>	Room10	
<b>Chair</b>	Chenghui Zhang, <i>Shandong Univ.</i>	
<b>Co-Chair</b>	Wenlong Yao, <i>Dalian Maritime Univ.</i>	
10:20 – 10:40	SunA10-1	<b>Full Speed Range Control of IPMSM for Electric Vehicles Based on Hamiltonian Theory</b> 1510 <i>Xudong Liu, Ke Li, Chenghui Zhang and Jing Sun</i>
10:40 – 11:00	SunA10-2	<b>Study on EV Charging Station Location Planning Based on the Load Balance Principle with Agent-Based AnyLogic Simulation</b> 1515 <i>Ruifeng Shi, Shiyao Zheng, Chaoqun Zhang and Li Zhang</i>
11:00 – 11:20	SunA10-3	<b>Road Boundary Detection Based on Information Entropy</b> 1520 <i>Xiao Hu, Chao Huang and Wei Cai</i>
11:20 – 11:40	SunA10-4	<b>Ship Electrical Propulsion Control System Based on Improved Model-Free Adaptive Control</b> 1526 <i>Yao Wen-Long, Liu Yuan, Zhang Jun-Dong, Chi Rong-Hu, Shao Wei and Zhang Gui-Chen</i>
11:40 – 12:00	SunA10-5	<b>A Nonlinear Control Allocation Algorithm for DYC in Distributed-Motor Drive Electric Vehicles Using S-SQP</b> 1530 <i>Xiong Lu, Chen Yuanlong and Jin Chi</i>
12:00 – 12:20	SunA10-6	<b>Optimal Planning of the Clutch Slipping Control for Gear Shift of 2-Speed Electric Vehicle</b> 1538 <i>Qiong Liang, Nana Tang, Bingzhao Gao and Hong Chen</i>

<b>Session</b>	<b>SunA11: Intelligent Building Control and Management (Invited Session)</b>		
<b>Date/Time</b>	Sunday, 01 June 2014 / 10:20-12:20		
<b>Venue</b>	Room11		
<b>Chair</b>	Yahui Wang, <i>Beijing Univ. of Civil Engineering and Architecture</i>		
<b>Co-Chair</b>			
<b>10:20 – 10:40</b>	<b>SunA11-1</b>	<b>A Rapid and Low-Cost North-Finder Design with Error Compensation</b> 1544 <i>Fangzhou Zheng, Shugui Wu, Xiao Lin and Yaping Dai</i>	
<b>10:40 – 11:00</b>	<b>SunA11-2</b>	<b>An Adaptive Genetic Algorithm Based on Arctangent Function</b> 1550 <i>Ting Yu, Jiang-Qiang Hu, Jian-Chuan Yin and Xing-Xing Huo</i>	
<b>11:00 – 11:20</b>	<b>SunA11-3</b>	<b>A FDD Model of VAV Systems Based on Neural-Networks and Residual Statistics</b> 1555 <i>Han Qi and Wei Dong</i>	
<b>11:20 – 11:40</b>	<b>SunA11-4</b>	<b>Resource Constrained Project Scheduling Problem Based on Improved Ant Colony Algorithm</b> 1560 <i>Jun Yan, Chunyan Zhao and Haiying Dong</i>	
<b>11:40 – 12:00</b>	<b>SunA11-5</b>	<b>The City Gas Emergency Dispatching Strategy Based on Multi-Agent</b> 1564 <i>Wei Xufeng, Liu Chao and Wang Yahui</i>	
<b>12:00 – 12:20</b>	<b>SunA11-6</b>	<b>Comparative Study on Permanent Magnet Synchronous Motor Control Systems in Elevator</b> 1568 <i>Nie Mu-Han and Ma Hong-Yan</i>	

<b>Session</b>	<b>SunAIS: Interactive Session</b>		
<b>Date/Time</b>	Sunday, 01 June 2014 / 10:20-12:20		
<b>Venue</b>	Room12		
<b>SunAIS-01</b>		<b>Non-Destructive Detection on the Fertility of Injected SPF Eggs in Vaccine Manufacture</b> 1574 <i>Qi-Lei Xu and Feng-Ying Cui</i>	
<b>SunAIS-02</b>		<b>An ARM-Based Embedded Gesture Recognition System Using a Data Glove</b> 1580 <i>Wang Jingqiu and Zhang Ting</i>	
<b>SunAIS-03</b>		<b>The Design of Aviation Battery Charging and Discharging System Based on DSP</b> 1585 <i>Cai Chengtao, Yang Chao and Lv Xiaolong</i>	
<b>SunAIS-04</b>		<b>Delay-Range-Dependent Stability for Uncertain Stochastic Systems with Time-Varying Delay</b> 1591 <i>Tao Liu</i>	
<b>SunAIS-05</b>		<b>Hopf Bifurcation Analysis and Control of a New Lorenz-Like System</b> 1597 <i>Zhang Zhonghua</i>	

- SunAIS-06**      **Neural Network Adaptive State Feedback Control of a Magnetic Levitation System** 1602  
*Shi-Tie Zhao and Xian-Wen Gao*
- SunAIS-07**      **Permanent Magnet Synchronous Motor Direct Torque Control Based on Particle Filter Observer** 1606  
*Wang Xu, Xing Yan, Yu Hong-Liang and Yang Dan*
- SunAIS-08**      **I&I Stabilization Based Novel Nonlinear Adaptive TCSC Control Algorithm for Improving Transient Stability** 1610  
*Zhang Lei, Zhang Aimin and Jing Junfeng*
- SunAIS-09**      **Study on the Mathematical Model of Virus Infection in Pest Management** 1616  
*Jingjin Zhang and Zhongyi Xiang*
- SunAIS-10**      **Quantized Feedback Stabilization of Nonlinear Cascaded Systems with Dynamic Uncertainties** 1620  
*Tengfei Liu and Zhong-Ping Jiang*
- SunAIS-11**      **Chaos Control for the Buck-Boost Converter by Improving the Correlation** 1626  
*Jia Meimei and Zhang Guoshan*
- SunAIS-12**      **Formation Control of Robot Swarm Based on Community Division and Multilevel Topology Design via Pining** 1631  
*Shiming Chen, Xianda Ding and Xiaoling Chen*
- SunAIS-13**      **Mach Number Prediction Models Based on Ensemble Neural Networks for Wind Tunnel Testing** 1637  
*Zhi Wei Jin, Li Zhao and Zheng Zhou Rao*
- SunAIS-14**      **Stability Analysis of Switched Nonlinear Systems with an Improved Mode-Dependent Average Dwell Time Method** 1641  
*Ren Ling, Guo Rongwei, Zhao Ping and Li Bin*
- SunAIS-15**      **Synchronization of Chua's Circuits Based on Strictly Positive Realness** 1645  
*Niu Hong, Zhang Guoshan and Wang Jiankui*
- SunAIS-16**      **Characteristic Models and AILC Design of Time-Varying Nonlinear Systems** 1650  
*Mingxuan Sun, Jie Zhang and Hongbo Bi*
- SunAIS-17**      **Anti-Windup Compensator Design for Fuzzy Descriptor System with Delayed State and Saturating Input** 1656  
*Yanbin Luo, Qiuxuan Wu and Aipeng Jiang*
- SunAIS-18**      **Target Tracking Based on Particle Filter Algorithm with Multiple Cues Fusion** 1660  
*Tao Zhang and Shumin Fei*
- SunAIS-19**      **Finite-Time Input-to-State Stability of Multi-Agent Systems with Switching Topologies** 1666  
*Xiaoli Wang, Yumin Chen and Qian Sun*
- SunAIS-20**      **Analysis of Population Controllability and Prediction of Population Structure Based on Constraint System** 1672  
*Yue Xiao-Ning, Meng Zhao-Jia and Xie Feng-Dan*
- SunAIS-21**      **Trajectory Tracking Control for Intelligent Vehicle Based on the Euler-Lagrange Systems** 1677  
*Chuang Guo, Longfei Dong and Yanrong Ge*
- SunAIS-22**      **Clustering Analysis Based on Adaptive Genetic Algorithm for Performance Assessment** 1682  
*Gao Xiangpeng, Wang Jianhua and Liang Shan*
- SunAIS-23**      **Gaussian Mixture Model with Semantic Distance for Image Classification** 1687  
*Wei Wu, Guanglai Gao and Jianyun Nie*
- SunAIS-24**      **Intelligent Collaborative Urban Traffic Management System Based on SOA and Cloud Computing** 1692  
*Fuquan Sun, Xi Yu, Shixin Liu and Fuqiang Lu*
- SunAIS-25**      **Output Strictly Passive and Input Strictly Passive of Neutral Systems** 1696  
*Jichun Wang, Qingling Zhang, Dong Xiao, Jingjing Bao and Huiying Zhang*

- SunAIS-26**    **A Group Division Method Based on Collaborative Learning Elements**    1701  
*Chen Long and Yang Qing-Hong*
- SunAIS-27**    **Online Actuator Reassignment for Fault Tolerant Flight Control**    1706  
*Lunlong Zhong and Félix Mora-Camino*
- SunAIS-28**    **Research of Brain MRI Image Segmentation Algorithm Based on FCM and SVM**    1712  
*Jun Xiao and Yifan Tong*
- SunAIS-29**    **The Shapley Value of Cooperative Game with Stochastic Payoffs**    1717  
*Cheng-Guo, Quan-Lin Li and Shi-Yong Li*
- SunAIS-30**    **A Novel Algorithm for Divisible Resource Allocations under PSP Auction Mechanism**    1723  
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- SunAIS-31**    **Nash Equilibrium Flow in a Routing Game with Random Queues**    1729  
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- SunAIS-32**    **Lot Release Strategy Semiconductor Assembly and Testing Based on the Degree of Constraint of the Minimum Spanning Tree**    1735  
*Zhang Guohui, Liu Chang, Yao Lili and Shi Haibo*
- SunAIS-33**    **Risk Response Strategy Research of Water and Sediment Regulation System Running Schemes in the Yellow River**    1740  
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- SunAIS-34**    **Three Stability Criteria for Delayed Stochastic Genetic Regulatory Networks and their Conservativeness Analysis**    1745  
*Jing Wang, Shaochun Cui, Xian Zhang and Yantao Wang*
- SunAIS-35**    **Application of Wireless Sensor Network in the Monitoring System of Boiler**    1751  
*Gang Wu, Chengdong Wu and Shichun Xu*
- SunAIS-36**    **The Detectability of Discrete-Time Stochastic Linear Systems with Markovian Jump and Multiplicative Noises**    1755  
*Wenhui Liu, Feiqi Deng, Xuekui Yan and Yinwei Zhao*
- SunAIS-37**    **Input/Output-to-State Stable Property of Switched Stochastic Nonlinear Systems by an Improved Average Dwell Time Method**    1759  
*Ren Ling, Guo Rongwei, Zhao Ping and Li Bin*
- SunAIS-38**    **A HFID-Based Online Testing Technique for Internal Pressure of Vacuum Breaker**    1764  
*Liu Shuguang, Guo Qian and Wu Xuexing*
- SunAIS-39**    **Research on Active Heave Compensation for Offshore Crane**    1768  
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- SunAIS-40**    **Reliability Assessment of Nuclear Power Plant Digital Instrumentation and Control System I: Challenges and Research Status of Reliability Assessment Methodology**    1773  
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SunAIS-44	<b>An Electricity Charge Strategy Based on Dynamic Rewards and Punishment</b> 1796 <i>Li Yan-Ping, Yu Dan, Xu Dai-Dai and Li Xin</i>
SunAIS-45	<b>Power Management and Control for Photovoltaic System Based on SWOT Model</b> 1801 <i>Xiaohong Ma, Shaowu Li, Qing Ai, Kunyi Chen and Dongshan Geng</i>
SunAIS-46	<b>Research on Meta-Model of Driver Behavior in Agent-Based Traffic Evacuation Simulation</b> 1805 <i>Shengcheng Yuan, Yi Liu, Gangqiao Wang, Yi Liu and Hui Zhang</i>
SunAIS-47	<b>Coordinated Control of Traffic Flow in Complex-Arterial Networks Under The Big Data Background</b> 1811 <i>Lin Feng, Feng Yuan-Jing, Li Kang and Zhang Ming</i>
SunAIS-48	<b>The Energy Efficiency Monitoring and Operation Optimization of Central Air Conditioners</b> 1818 <i>Zhou Yu, Yan Jun-Wei and Lin Hai-Jie</i>
SunAIS-49	<b>An Advanced Adaptive Backstepping Control Method for STATCOM</b> 1822 <i>Zhang Chao, Zhang Aimin, Zhang Hang, Wang Nan, Ren Zhigang, Huang Jingjing and Geng Yingsan</i>
SunAIS-50	<b>Model Reference Adaptive Control Based on Lyapunov Stability Theory</b> 1828 <i>Tang Minan, Cao Jie, Yang Xiaoxiao, Wang Xiaoming and Gu Baohui</i>

<b>Session</b>	<b>SunB01: Process Control (Chinese) (II)</b>
<b>Date/Time</b>	Sunday, 01 June 2014 / 13:20-15:20
<b>Venue</b>	Room01
<b>Chair</b>	Qiuxia Sun, <i>Shandong University of Science and Tech.</i>
<b>Co-Chair</b>	Yuyan Liu, <i>North China Electric Power Univ.</i>

13:20 – 13:40	<b>SunB01-1</b>	<b>The Influence of Unknown Parameters in AR(2) Process to the Control Chart's Performance</b> 1834 <i>Qiuxia Sun and Qisheng Gao</i>
13:40 – 14:00	<b>SunB01-2</b>	<b>The Structure and Parameters Optimization of ADRC for Steam Generator Water Level</b> 1839 <i>Liu Yuyan, Zhou Shiliang and Song Bing</i>
14:00 – 14:20	<b>SunB01-3</b>	<b>Modified Internal Model Controller Design Based on OKID for Multivariable System with Time Delays</b> 1845 <i>Zhou Zhigang and Xie Linbo</i>
14:20 – 14:40	<b>SunB01-4</b>	<b>The Principle and Simulation Research of a Fast Algorithm of Multivariable Predictive Control</b> 1851 <i>Hao Pan, Yu Cao, Tao Zou, Haibin Yu and Mingzhe Yuan</i>
14:40 – 15:00	<b>SunB01-5</b>	<b>Sectional Optimization of Oxygen Content in Flue Gas Based on PSO</b> 1857 <i>Liwen Yang, Jingcheng Wang and Yuanhao Shi</i>
15:00 – 15:20	<b>SunB01-6</b>	<b>Research on Calibration Method of Infrared Test Equipment (Calibration Method of Infrared Radiometer and Infrared Thermal Imager)</b> 1863 <i>Wei Guan, Ling Guo and Li Fu</i>

<b>Session</b>	<b>SunB02: Sensor Network Systems (I)</b>
<b>Date/Time</b>	Sunday, 01 June 2014 / 13:20-15:20
<b>Venue</b>	Room02
<b>Chair</b>	Ying Zhang, <i>Shanghai Maritime Univ.</i>
<b>Co-Chair</b>	Weirong Liu, <i>Central South Univ. Hunan Engineering Laboratory for Adanced Control and Intelligent Automation Changsha</i>

13:20 – 13:40	<b>SunB02-1</b>	<b>Energy-Efficient Sensor Scheduling Scheme for Target Tracking in Wireless Sensor Networks</b> 1869 <i>Jianming Xiao, Weirong Liu, Yun He and Gaorong Qin</i>
13:40 – 14:00	<b>SunB02-2</b>	<b>On Deployment Optimization Strategy for Hybrid Wireless Sensor Networks</b> 1875 <i>Zhang Ying and Zhao Wei</i>
14:00 – 14:20	<b>SunB02-3</b>	<b>An Efficient and Hybrid Key Management for Heterogeneous Wireless Sensor Networks</b> 1881 <i>Zhang Ying and Ji Pengfei</i>
14:20 – 14:40	<b>SunB02-4</b>	<b>Joint Sleep Scheduling and Opportunistic Transmission in Wireless Body Area Networks</b> 1886 <i>Hong Li, Bo Yang, Wenbin Yu, Xinping Guan, Xiaohui Gong and Guangjun Yu</i>
14:40 – 15:00	<b>SunB02-5</b>	<b>Ring-Based Security Energy-Efficient Routing Protocol for WSN</b> 1892 <i>Liu Mengyao, Zhang Yanyan and Xia Li</i>
15:00 – 15:20	<b>SunB02-6</b>	<b>Sensor Scheduling Based on Predicion</b> 1898 <i>Yan Dongmei</i>

<b>Session</b>	<b>SunB03: Identification and Estimation (I)</b>
<b>Date/Time</b>	Sunday, 01 June 2014 / 13:20-15:20
<b>Venue</b>	Room03
<b>Chair</b>	Wenzhong Gao, <i>Univ. of Denver</i>
<b>Co-Chair</b>	Linru You, <i>South China Univ. of Tech.</i>

13:20 – 13:40	<b>SunB03-1</b>	<b>GNSS Coverage Performance for Medium-High Earth Orbital Satellites</b> 1902 <i>Zhao Xiaofang, Wang Haihong, Wu Xiangjun, Wang Jie and Chen Zhonggui</i>
13:40 – 14:00	<b>SunB03-2</b>	<b>Multi-Objective Robust <math>H_\infty</math> Observer Design for One-Sided Lipschitz Nonlinear Uncertain Systems</b> 1907 <i>Muhammad Abid, Muhammad Shoaib and Abdul Qayyum Khan</i>

14:00 – 14:20	SunB03-3	<b>Integrated Modeling for Gas Mixing Process Based on Mechanism and Subspace Identification</b> 1912 <i>Yuan Cao, Weihua Cao, Yan Yuan, Min Wu and Yongyue Zhang</i>
14:20 – 14:40	SunB03-4	<b>Dynamic Model and Parameters Identification of Piezoelectric Stack Actuators</b> 1918 <i>Peidong Li, Jie Fu, Yuan Wang, Zhiwei Xing and Miao Yu</i>
14:40 – 15:00	SunB03-5	<b>Stochastic Gradient Algorithm for State Space System with <math>d</math>-Step Delay</b> 1924 <i>Ya Gu and Rui Ding</i>
15:00 – 15:20	SunB03-6	<b>Motion Simulation and Analysis During Initial Rotor Position Identification for PMSM Based on High Frequency Voltage Injection</b> 1929 <i>Zhaobin Huang, Linru You and Zhaodong Wang</i>

<b>Session</b>	SunB04: Discrete Event Systems
<b>Date/Time</b>	Sunday, 01 June 2014 / 13:20-15:20
<b>Venue</b>	Room04
<b>Chair</b>	Chao Lu, <i>Northeastern Univ.</i>
<b>Co-Chair</b>	Liang Feng, <i>Nankai Univ.</i>

13:20 – 13:40	SunB04-1	<b>Hybrid Model of Multi-Agent and DEES for Steelmaking-Continuous Casting-Hot Rolling Manufacturing Process Simulation</b> 1936 <i>Duan Xu, Chao Lu, Wei Zhou and Shixin Liu</i>
13:40 – 14:00	SunB04-2	<b>Autonomy and Coordination Mechanism in Virtual Production Systems</b> 1941 <i>Liang Feng</i>
14:00 – 14:20	SunB04-3	<b>Consensus of Double-Integrator Discrete-Time Multi-Agent System Based on Second-Order Neighbors' Information</b> 1946 <i>Huan Pan and Wenjuan Qiao</i>
14:20 – 14:40	SunB04-4	<b>Partial Stability of Probabilistic Boolean Network</b> 1952 <i>Zhiqiang Li, Jinli Song and Jian Yang</i>
14:40 – 15:00	SunB04-5	<b>Asymptotic Behavior of Sampling Zero Dynamics for a 3-DOF Tandem-Rotor Model Helicopter</b> 1957 <i>Shan Liang, Cheng Zeng, Jiaqi Zhong and Yongsheng Sun</i>
15:00 – 15:20	SunB04-6	<b>Using <math>p</math>-Invariants to Transform Inadmissible Constraints into Admissible Constraints</b> 1963 <i>S. M. Saeed Damadi, Ali Doustmohammdi and Ahmad Afshar</i>



<b>Session</b>	<b>SunB05: Networked Control Systems (I)</b>
<b>Date/Time</b>	Sunday, 01 June 2014 / 13:20-15:20
<b>Venue</b>	Room05
<b>Chair</b>	Nan Xiao, <i>East China Univ. of Scie. and Tech.</i>
<b>Co-Chair</b>	Zhou Gu, <i>Nanjing Forestry Univ. and Southeast Univ.</i>

13:20 – 13:40	<b>SunB05-1</b>	<b>Stabilization of LTI Systems Over Finite-State Fading Channels</b> 1971 <i>Nan Xiao, Yugang Niu and Lihua Xie</i>
13:40 – 14:00	<b>SunB05-2</b>	<b>Gain-Scheduled <math>H_\infty</math> Control for Networked Superheated Steam Temperature</b> 1977 <i>Baochun Zhuang, Guangtao Shi and Zhou Gu</i>
14:00 – 14:20	<b>SunB05-3</b>	<b><math>H_\infty</math> Control for Multi-Rate Networked Control Systems with both Time-Delay and Packet-Dropout</b> 1983 <i>Qixin Zhu, Binbin Xie and Yonghong Zhu</i>
14:20 – 14:40	<b>SunB05-4</b>	<b>Quantized Control for Networked Control Systems with Communication Delay and Packet Dropouts</b> 1989 <i>Chong Jiang</i>
14:40 – 15:00	<b>SunB05-5</b>	<b>Fuzzy-Model-Based Robust Stability of Nonlinear Networked Control Systems with Input Missing</b> 1995 <i>Xiangyang Jia, Bin Tang, Defeng He and Shiguo Peng</i>
15:00 – 15:20	<b>SunB05-6</b>	<b>Adaptive Fuzzy Coordinated Tracking Control of Networked Unknown Lagrange Systems</b> 2003 <i>Chen Gang, Feng E-ning, Lin Qing and Ling Rui</i>

<b>Session</b>	<b>SunB06: Signal Processing (I)</b>
<b>Date/Time</b>	Sunday, 01 June 2014 / 13:20-15:20
<b>Venue</b>	Room06
<b>Chair</b>	Wei Xie, <i>South China Univ. of Tech.</i>
<b>Co-Chair</b>	Hongjian Zhang, <i>Air Force Military Representative Office in Shanghai Area.</i>

13:20 – 13:40	<b>SunB06-1</b>	<b>Overview on Image Super Resolution Reconstruction</b> 2009 <i>Lu Ziwei, Wu Chengdong, Chen Dongyue, Qi Yuanchen and Wei Chunping</i>
13:40 – 14:00	<b>SunB06-2</b>	<b>A Robust Object Tracking Method Based on Sparse Representation</b> 2015 <i>Yuanchen Qi, Chengdong Wu, Dongyue Chen and Ziwei Lu</i>
14:00 – 14:20	<b>SunB06-3</b>	<b>Adaptive Fractional Differential Algorithm Based on Otsu Standard</b> 2020 <i>Bo Li and Wei Xie</i>

14:20 – 14:40	SunB06-4	<b>Multisensor Multitarget Tracking Based on a Matrix Reformulation of the GM-PHD Filter</b> 2026 <i>Hongjian Zhang, Yuewu Zhang, Bei Ye and Jin Wang</i>
14:40 – 15:00	SunB06-5	<b>Image Feature Detection Based on Phase Congruency by Monogenic Filters</b> 2033 <i>Wang Lijuan, Zhang Changsheng, Liu Ziyu, Sun Bin and Tian Haiyong</i>
15:00 – 15:20	SunB06-6	<b>State-Machine-Based Filtering Method for Vehicle Speed Detection</b> 2039 <i>Wang Jian-Qun, Wu Qing-Yang and Cao Ning</i>

<b>Session</b>	<b>SunB07: Control Applications (II)</b>
<b>Date/Time</b>	Sunday, 01 June 2014 / 13:20-15:20
<b>Venue</b>	Room07
<b>Chair</b>	Yan Ji, <i>Jilin Univ.</i>
<b>Co-Chair</b>	Xin Wang, <i>Hunan University of Technology</i>

13:20 – 13:40	SunB07-1	<b>Integrated Control of Active Front Steering and Direct Yaw Moment Based on Model Predictive Control</b> 2044 <i>Yan Ji, Hongyan Guo and Hong Chen</i>
13:40 – 14:00	SunB07-2	<b>Nonlinear Fuzzy Supervisory Predictive Control Based on Genetic Algorithm</b> 2050 <i>Li Suzhen, Liu Xiangjie and Yuan Gang</i>
14:00 – 14:20	SunB07-3	<b>Stability and Bifurcation Analysis of a Lotka-Volterra Time Delayed System</b> 2056 <i>Sreelakshmi Manjunath and Gaurav Raina</i>
14:20 – 14:40	SunB07-4	<b>Vector Control of Three-Phase Voltage Source PWM Rectifier Based on Fractional-Order Controller</b> 2064 <i>Chaojun Wu and Yanbin Zhang</i>
14:40 – 15:00	SunB07-5	<b>Nonlinear Model Predictive Control Based on T-S Fuzzy Model for a PWR Nuclear Power Plant</b> 2070 <i>Mengyue Wang and X. J. Liu</i>
15:00 – 15:20	SunB07-6	<b>Stability and Hopf Bifurcation Analysis of the Mackey-Glass and Lasota Equations</b> 2076 <i>Sreelakshmi Manjunath and Gaurav Raina</i>

<b>Session</b>	<b>SunB08: Intelligent Automation</b>	
<b>Date/Time</b>	Sunday, 01 June 2014 / 13:20-15:20	
<b>Venue</b>	Room08	
<b>Chair</b>	Xiang Lu, <i>Civil Aviation Univ. of China</i>	
<b>Co-Chair</b>	Rui Xu, <i>Beijing Institute of Tech.</i>	
<b>13:20 – 13:40</b>	<b>SunB08-1</b>	<b>Extraction and Evaluation Model for the Basic Characteristics of MIDI File Music</b> 2083 <i>Zhao Wei, Li Xiaoli and Li Yang</i>
<b>13:40 – 14:00</b>	<b>SunB08-2</b>	<b>Attitude Navigation for Deep Space Explorer based on Mission Planning</b> 2088 <i>Fanyu Zhao, Pingyuan Cui, Rui Xu and Zhaoyu Li</i>
<b>14:00 – 14:20</b>	<b>SunB08-3</b>	<b>Research on HVPL for Visual Detection of Bicolor Water Level Gauge</b> 2094 <i>Bin Sun, Changsheng Zhang, Ziyu Liu, Haiyong Tian and Hanping Zhang</i>
<b>14:20 – 14:40</b>	<b>SunB08-4</b>	<b>The Application in Detection of Defects in Compound Material with Ultrasonic Phased Array Technology</b> 2100 <i>Yunlin Luo, Xiang Lu, Kun Wang and Li Wang</i>
<b>14:40 – 15:00</b>	<b>SunB08-5</b>	<b>Infrared Image Registration of Damage in the Aircraft Skin Based on Lie Group Machine Learning</b> 2104 <i>Yunlin Luo, Zhanxiao Yan, Kun Wang and Li Wang</i>
<b>15:00 – 15:20</b>	<b>SunB08-6</b>	<b>A Study of Intelligent Vehicle Motion Control System Based on Multi-Sensor Information Fusion</b> 2109 <i>Lan Yanting and Huang Jinying</i>

<b>Session</b>	<b>SunB09: Robot Control (II)</b>	
<b>Date/Time</b>	Sunday, 01 June 2014 / 13:20-15:20	
<b>Venue</b>	Room09	
<b>Chair</b>	Zhiwei Liang, <i>Nanjing Univ.of Posts and Telecommunications</i>	
<b>Co-Chair</b>	Fangzheng Xue, <i>Chongqing Univ.</i>	
<b>13:20 – 13:40</b>	<b>SunB09-1</b>	<b>Quasi-Harmonic Approach to Non-Holonomic Robot Motion Control with Concave Obstacles Avoidance</b> 2113 <i>D. Necsulescu and G. Nie</i>
<b>13:40 – 14:00</b>	<b>SunB09-2</b>	<b>Omnidirectional Walk of Biped Robots in RoboCup3D Simulation Environment</b> 2119 <i>Ping Shen, Zhiwei Liang and Xuejun Li</i>
<b>14:00 – 14:20</b>	<b>SunB09-3</b>	<b>A Partitioning-Based Task Allocation Strategy for Police Multi-Agents</b> 2124 <i>Linag Zhiwei, Yang Xiang and Deng Yao</i>
<b>14:20 – 14:40</b>	<b>SunB09-4</b>	<b>Alignment Condition-Based Adaptive Iterative Learning Control for Robot Manipulators</b> 2129 <i>Qiang Chen and Fangzheng Xue</i>
<b>14:40 – 15:00</b>	<b>SunB09-5</b>	<b>Position Deviation Based Second-Order Consensus in Multiple Vehicle Systems</b> 2135 <i>Jie Quan and Guoping Jiang</i>

15:00 – 15:20      SunB09-6      **Robot Manipulator Control Based on the Inner-Learning Mechanism**    2139  
*Jian Xiang and Fangzheng Xue*

<b>Session</b>	<b>SunB10: Smart Grids (I)</b>
<b>Date/Time</b>	Sunday, 01 June 2014 / 13:20-15:20
<b>Venue</b>	Room10
<b>Chair</b>	Zaiyue Yang, <i>Zhejiang Univ.</i>
<b>Co-Chair</b>	Wenjie Tang, <i>Southeast Univ.</i>

13:20 – 13:40	<b>SunB10-1</b>	<b>Optimal Scheduling of Electric Vehicle Using Dual Decomposition</b> 2144 <i>Jinfeng Yang and Zaiyue Yang</i>
13:40 – 14:00	<b>SunB10-2</b>	<b>Research on Fault Location Algorithm for Double Transmission Line on the Same Tower Based On the Conductor's Relation of Electromagnetic Coupling</b> 2150 <i>Kunyi Chen, Qin Ai, Shaowu Li, Dongshan Geng and Yongchao Yang</i>
14:00 – 14:20	<b>SunB10-3</b>	<b>Research of Immune Algorithms for Reconfiguration of Distribution Network with Distributed Generations</b> 2156 <i>Gu Cailian, Ji Jianwei and Liu Li</i>
14:20 – 14:40	<b>SunB10-4</b>	<b>Research on Intellectualization of 126kV SF6 Circuit Breaker</b> 2161 <i>Wang Huan, Lv Tao-Mei and Tao Jiang-Ping</i>
14:40 – 15:00	<b>SunB10-5</b>	<b>Study of the Location of TCSC for Improving ATC Considering N-1 Security Constraints</b> 2166 <i>Wenjie Tang, Wenjing Pan, Kaifeng Zhang and Cheng Liu</i>
15:00 – 15:20	<b>SunB10-6</b>	<b>A New Strategy of Reactive Power Compensation Device of Indirect Current Control</b> 2171 <i>Wang Xu, Yu Hongliang, Xing Yan and Yang Dan</i>

<b>Session</b>	<b>SunB11: Intelligent Building Control and Management (Invited Session)</b>
<b>Date/Time</b>	Sunday, 01 June 2014 / 13:20-15:20
<b>Venue</b>	Room11
<b>Chair</b>	Yahui Wang, <i>Beijing University of Civil Engineering and Architecture</i>
<b>Co-Chair</b>	

13:20 – 13:40	<b>SunB11-1</b>	<b>Research of Power System Steady-State Model with Distributed Photovoltaic Based on Digsilent</b> 2175 <i>Gu Cailian, Ji Jianwei and Liu Li</i>
13:40 – 14:00	<b>SunB11-2</b>	<b>A Multi-Flooding Data Transmission Mechanism for Low-Duty-Cycle Wireless Sensor Network</b> 2181 <i>Le Tian</i>
14:00 – 14:20	<b>SunB11-3</b>	<b>Study on Emergency Management Simulation Command System for Gas System Based on Cybernetics</b> 2185 <i>Wang Ya-Hui, Gao Shunli, Wu Bo, Li Xia-Xi, Sun Jian-Min and Wang Jian-Ling</i>

14:20 – 14:40	SunB11-4	<b>Based on Agent Technology of Gas Pipeline Leakage Urgent Repairing Simulation Exercises and Practical Countermeasure Analysis</b> 2190 <i>Yan Qian and Yahui-Wang</i>
14:40 – 15:00	SunB11-5	<b>Using Multiple Views for Gait-Based Gender Classification</b> 2194 <i>De Zhang and Yahui Wang</i>
15:00 –15:20	SunB11-6	<b>Optimization of Least-Squares Localization Algorithm in WSN</b> 2198 <i>Zhang Yu-Ting and Tan Zhi</i>

Session	SunBIS: Interactive Session
Date/Time	Sunday, 01 June 2014 / 13:20-15:20
Venue	Room12
SunBIS-1	<b>Optimal Patient Routing Policies at Diagnosis-Stage in Outpatient Department Non-Preemptive Queues</b> 2203 <i>Huabo Zhu, Dan Chen, Jun Gong and Jiafu Tang</i>
SunBIS-2	<b>The Research and Application on the Optimal Location Model of Project</b> 2208 <i>Jie Zhang and Chengxiang Hu</i>
SunBIS-3	<b>Analysis on the Optimum Selection of Science and Technology Industrialization Projects Based on AHP- Fuzzy Comprehensive Evaluation</b> 2211 <i>Lihua Jiang and Kongguo Zhu</i>
SunBIS-4	<b>Variable Probability Based Bidirectional RRT Algorithm for UAV Path Planning</b> 2217 <i>Wu Xinggang, Guo Cong and Li Yibo</i>
SunBIS-5	<b>Comprehensive Evaluation of Regional Development Level of Resources Inequalities</b> 2223 <i>Jiameng Guo, Mingyue Qu and Kewu Peng</i>
SunBIS-6	<b>Dynamic Comprehensive Evaluation Method with the Feature of Reward and Punishment</b> 2227 <i>Yi Zhang, Jiameng Guo, Lei Yi and Kewu Peng</i>
SunBIS-7	<b>Track Initiation Algorithm for Maneuvering Target Using Radial Velocity Measurements</b> 2231 <i>Yuan Junquan, Yin Shuai, Jiang Jin and Wang Licai</i>
SunBIS-8	<b>A Consensus Model for Conflict Problems in Distributed Command and Control Decision Making</b> 2236 <i>Huang Hai-Yan, Shi Jing, Bao Guang-Yu and Liu Xiao-Ming</i>
SunBIS-9	<b>Spare Parts Varieties Level Configuration Based on Grey Situation Decision</b> 2241 <i>Ren Xi, Zhao Jian-Jun and Yang Li-Bin</i>
SunBIS-10	<b>Cloud Services Optimization Problem on Energy Utility Resource Allocation</b> 2244 <i>Ming-Hai Jiao, Ping Yan, Chen Li, Qiang Wang and Yan-Jing Wei</i>
SunBIS-11	<b>Improving Churn Prediction in Telecommunications Using Complementary Fusion of Multilayer Features Based on Factorization and Construction</b> 2250 <i>Qiuhua Shen, Hong Li, Qin Liao, Wei Zhang and Kone Kalilou</i>
SunBIS-12	<b>Optimal Hierarchical Allocation in Deregulated Electricity Market Under PSP Auction Mechanism</b> 2256 <i>Zhongjing Ma and Yingying Cui</i>
SunBIS-13	<b>Research on the Task Process Reliability Modeling of SOS</b> 2262 <i>Wen Tianjian and Pan Xin</i>

- SunBIS-14**    **Technology Research & Development Decision Based on Relative Advancement Degree of Difficulty in Large Project** 2267  
*Wen-Bing Chang, Wei Liu, Sheng-Han Zhou and Shao-Qi Zhou*
- SunBIS-15**    **The Method of Risk Evaluation for Equipment Development Based on Triangular Fuzzy Number and TOPSIS** 2272  
*Shao-Qi Zhou, Wen-Bing Chang, Sheng-Han Zhou and Wei Liu*
- SunBIS-16**    **Emergency Capability Evaluation for the Ship at Sea Based on FSPA Algorithm** 2277  
*Ou Yang, Liu Zhengjiang and Cao Liang*
- SunBIS-17**    **Optimal  $H_\infty$  Fusion Controller Design for a Class of Discrete-Time Systems with Missing Measurements** 2281  
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- SunBIS-18**    **Design of Embedded Network Controller Based on ARM** 2287  
*Lingyan Xue, Liping Zheng and Rui Liu*
- SunBIS-19**    **Research of an Adaptive PI Admission Control of Web Service** 2290  
*Zhu Zijie, Gao Xiang and Chunhui Zhang*
- SunBIS-20**    **Output Quantized Feedback with Bounded System Noise** 2294  
*Yuqiang Long, Qiang Ling, Zhe Yan, Feng Li and Song Wang*
- SunBIS-21**    **MODBUS-Based Data Share of Multi-Touch Screen and Its Application In Coals Blending Automatic Shooting Control System of Jiexiu Coal Washing Factory** 2298  
*Guojun Zhang and Zehua Chen*
- SunBIS-22**    **Development of Simulation-Based Software Design Solution** 2302  
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- SunBIS-23**    **The Research on Transmission Delay Compensating Based on Internet** 2307  
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- SunBIS-24**    **An Improved Congestion Avoidance Control Model for TCP Vegas Based on Ad Hoc Networks** 2310  
*Ying Luo, Minyong Yin, Hong Jiang and Shaoliang Ma*
- SunBIS-25**    **Finite-Time Stabilizable Controller Design for a Class of Neutral Time-Delayed Systems via State Feedback** 2315  
*Xia Chen, Jun Song and Shuping He*
- SunBIS-26**    **Modeling Research on Ground-Coupled Heat Pump System Based on Artificial Neural Network** 2320  
*Yating Zhang, Weichang Jiang and Ruihua Wang*
- SunBIS-27**    **The Ship Motion Prediction Approach Based on BP Neural Network to Identify Volterra Series Kernels** 2324  
*Xiuyan Peng, Zhiguo Men, Xingmei Wang and Shuli Jia*
- SunBIS-28**    **Output Feedback Adaptive Dynamic Surface Control for a Class of Uncertain Nonlinear Systems** 2329  
*Yang Jingyu and Wang Qiangde*
- SunBIS-29**    **A Cerebellar Neuronal Network Model Applying to DIVA Model** 2335  
*Wu Yuanyuan and Zhang Shaobai*
- SunBIS-30**    **A Neural Network Based Model Predictive Control for Wind Tunnel** 2340  
*Ning Du, Xiu Hong Long and Li Zhao*
- SunBIS-31**    **A Pruned Cooperative Co-Evolutionary Genetic Neural Network and Its Application on Stock Market Forecast** 2344  
*Xingcheng Pu, Yanqin Lin and Pengfei Sun*

- SunBIS-32**    **The Design of Neural Network Controller of a Class of Nonlinear Systems with Unknown Actuator Hard-Nonlinear** 2350  
*Fang Hui and Lu Donghong*
- SunBIS-33**    **The High Precise Optimization Algorithm and Rational Construct Study of Multi-Layered Feed-Forward Neural Network** 2354  
*Hou Xiang-Lin, Liu Ya-Li and Li Qi*
- SunBIS-34**    **Research on Case-Based Reasoning Search Method** 2360  
*Hongru Li, Chaoyue Zhao and Wei Wu*
- SunBIS-35**    **Analysis and Design of Fuzzy-PID Controller with Generalized Linear Membership Function** 2365  
*Huang Weihua, Zhang Zheng and Fang Kangling*
- SunBIS-36**    **Observer Design of Discrete-Time T-S Fuzzy Systems via an Efficient Multi-Instant Fuzzy Observer** 2370  
*Hongxia Zhang and Xiangpeng Xie*
- SunBIS-37**    **Research on Evaluation of City Public Emergency Capability Based on The Fuzzy Set Theory** 2375  
*Sun Yan*
- SunBIS-38**    **Design and Application of High Precision Fuzzy Controller** 2379  
*Yong He, Jianyong Li and Qi Kuang*
- SunBIS-39**    **Temperature Modeling of PEM Fuel Cell Based on Fuzzy Strategy** 2383  
*Yan Qun, Li Qing, Zhang Peichang and Yu Datai*
- SunBIS-40**    **A Logistic-Interpolation-Based Fuzzy Controller for Electrode Regulation of Submerged Arc Furnace** 2388  
*Shiliang Zhang, Hui Cao, Wanjun Lei and Yanbin Zhang*
- SunBIS-41**    **Finite-Time  $H_\infty$  Fuzzy Control for Continuous-Time and Discrete-Time Nonlinear Systems** 2393  
*Dedong Yang*
- SunBIS-42**    **Extending UML for the Modeling of Fuzzy Self-Adaptive Software Systems** 2400  
*Deshuai Han, Qiliang Yang and Jianchun Xing*
- SunBIS-43**    **A Simple and Efficient Diagonal Maze-Solver for Micromouse Contests and Intelligent Mobile Robot Education** 2407  
*Juing-Huei Su, Hsin-Hsiung Huang and Chyi-Shyong Lee*
- SunBIS-44**    **Iterative Learning Control Algorithm for a Class of Singular Systems with Multiple Time-Delays** 2412  
*Hu Ting, Tian Senping and Luo Yanbo*
- SunBIS-45**    **The Teaching Experiment of Speech Recognition Based on HMM** 2416  
*Mingjia An, Zhengtao Yu, Jianyi Guo, Shengxiang Gao and Yantuan Xian*
- SunBIS-46**    **Implementation of the Line Maze Robot with Diagonal Motion Control** 2421  
*Hsin-Hsiung Huang, Juing-Huei Su, Chyi-Shyong Lee, Jheng-Yan Syu, Shih-Wei Chao and Yi-Wei Chang*
- SunBIS-47**    **Flux Observer of Induction Motor Based on “Assumed Inherent Sensor” Inversion** 2426  
*Liu Guohai, Wang Manlu, Ding Yuhua, Mei Congli, Jiang Hui and Cheng Jinxiang*
- SunBIS-48**    **A Noble Cross-Layer Protocol for QoS Optimization in Wireless Sensor Networks** 2430  
*Ji Peng, Jiang Jingqi, Sun Qiushuo and Zhang Songyang*

<b>Session</b>	<b>SunC01: Variable Structure Control (Chinese)</b>	
<b>Date/Time</b>	Sunday, 01 June 2014 / 15:40-17:40	
<b>Venue</b>	Room01	
<b>Chair</b>	Liang Wu, <i>Beihang Univ.</i>	
<b>Co-Chair</b>	Bin Zhou, <i>National University of Defense Tech.</i>	
<b>15:40 – 16:00</b>	<b>SunC01-1</b>	<b>A Nonlinear Adaptive Control Approach for an Activated Sludge Process Using Neural Networks</b> 2435 <i>Lin Mei-Jin and Luo Fei</i>
<b>16:00 – 16:20</b>	<b>SunC01-2</b>	<b>Sliding Mode Attitude Controller Design of a Small-Scale Helicopter</b> 2441 <i>Bin Zhou, Shuai Tang, Peng Li and Zhiqiang Zheng</i>
<b>16:20 – 16:40</b>	<b>SunC01-3</b>	<b>Sliding Mode Control of Pitch Angle for Direct Driven PM Wind Turbine</b> 2447 <i>Wang Xin, Zhu Wanli, Qin Bin and Li Pengcheng</i>
<b>16:40 – 17:00</b>	<b>SunC01-4</b>	<b>Stability Probability in Sliding Mode Control of Second Order Markovian Jump Systems</b> 2453 <i>Qing Zhu, Xinghuo Yu, Aiguo Song, Shumin Fei, Zhiqiang Cao and Yuequan Yang</i>
<b>17:00 – 17:20</b>	<b>SunC01-5</b>	<b>Guidance Law Accounting for Second-Order Dynamics of Missile Autopilot and Impact Angle Constraints</b> 2459 <i>Wu Liang, Wang Weihong and Xiong Shaofeng</i>
<b>17:20 – 17:40</b>	<b>SunC01-6</b>	<b>Research on Chattering and Limit Cycle Adjusting for Output Feedback SMC Based on Frequency Domain Analysis</b> 2465 <i>Shen Yu</i>

<b>Session</b>	<b>SunC02: Sensor Network Systems (II)</b>	
<b>Date/Time</b>	Sunday, 01 June 2014 / 15:40-17:40	
<b>Venue</b>	Room02	
<b>Chair</b>	Wenchao Chen, <i>Civil Aviation Univ. of China</i>	
<b>Co-Chair</b>	Li Duan, <i>Naval Univ.of Engineering</i>	
<b>15:40 – 16:00</b>	<b>SunC02-1</b>	<b>The Design of Mission-Oriented Management System for Multi-Sensors Network in Network-Centric Warfare</b> 2470 <i>Jia-Qi Xu, Li Duan and Qi-Yuan Li</i>
<b>16:00 – 16:20</b>	<b>SunC02-2</b>	<b>Research on Non-Destructive Measuring Moisture Content for Packaged Tea Based on the LC Resonant Sensor</b> 2476 <i>Rao Ning and Han An-Tai</i>
<b>16:20 – 16:40</b>	<b>SunC02-3</b>	<b>A Kind of Routing Algorithm for Heterogeneous Wireless Sensor Networks Based on Affinity Propagation</b> 2481 <i>Zhang Ying and Ji Changgang</i>



16:40 – 17:00	SunC02-4	<b>Design of a Monitoring System of Airport Boarding Bridge Based on ZigBee Wireless Network</b> 2486 <i>Jihong Zhang and Wenchao Chen</i>
17:00 – 17:20	SunC02-5	<b>Trust-Based QoS Routing Algorithm for Wireless Sensor Networks</b> 2492 <i>Junwei Wang and Haifeng Wang</i>
17:20 – 17:40	SunC02-6	<b>Posture Recognition for the Elderly Based on Wireless Sensor Networks</b> 2496 <i>Ye Shang, Zhigang Liu and Jinkuan Wang</i>

<b>Session</b>	<b>SunC03: Identification and Estimation (II)</b>	
<b>Date/Time</b>	Sunday, 01 June 2014 / 15:40-17:40	
<b>Venue</b>	Room03	
<b>Chair</b>	Zhizhong Mao, <i>Northeastern Univ.</i>	
<b>Co-Chair</b>	Wenfeng Tan, <i>National Univ. of Defense Tech.</i>	
15:40 – 16:00	SunC03-1	<b>Effect of Shock Absorbers' Deformation on RLG's Bias Temperature Modeling</b> 2500 <i>Tan Wen-Feng, Hu Chun-Sheng and Wang Xing-Shu</i>
16:00 – 16:20	SunC03-2	<b>A Unified Observer for High Order Disturbances in Time Series Expansion</b> 2505 <i>Qing Liang, Zhen Wang, Jinwen Pan and Yiheng Wei</i>
16:20 – 16:40	SunC03-3	<b>An Identification Algorithm for Hammerstein-Wiener System with Dead Zone Input Nonlinearity Using Gradient Method</b> 2511 <i>Hyok Chan Hong and Zhizhong Mao</i>
16:40 – 17:00	SunC03-4	<b>Adaptive Parameter Estimation with Guaranteed Prescribed Performance</b> 2515 <i>Juan Yang, Jing Na, Xing Wu and Yu Guo</i>
17:00 – 17:20	SunC03-5	<b>The Research of Underwater Image De-noising Method Based on Adaptive Wavelet Transform</b> 2521 <i>Lei Fei and Wang Yingying</i>
17:20 – 17:40	SunC03-6	<b>KPCA-ARX Time-Space Modeling for Distributed Parameter System</b> 2526 <i>Yang Jingjing and Tao Jili</i>

<b>Session</b>	<b>SunC04: Decision Supporting System and Production Planning and Scheduling (I)</b>	
<b>Date/Time</b>	Sunday, 01 June 2014 / 15:40-17:40	
<b>Venue</b>	Room04	
<b>Chair</b>	Dingwei Wang, <i>Northeastern Univ.</i>	
<b>Co-Chair</b>	Wenyan Tang, <i>Hunan Univ. of Technology</i>	
15:40 – 16:00	SunC04-1	<b>Scheduling a Constrained Hybrid Flow Shop Problem by Heuristic Algorithm</b> 2532 <i>Yanhui Yu and Tieke Li</i>
16:00 – 16:20	SunC04-2	<b>Mixed Packing Strategy for Mass-Product Distributions and Its Minimum Unpacking Problem</b> 2538 <i>Dingwei Wang</i>

16:20 – 16:40	SunC04-3	<b>A Surgery Block-Scheduling Strategy with Stochastic Demand</b> 2544 <i>Wang Yu and Tang Jiafu</i>
16:40 – 17:00	SunC04-4	<b>A Job Shop Scheduling System Based on Parallel Control Mechanism</b> 2548 <i>Yanhong Wang, Yehong Zhang, Qan Zhang and Hongxia Yu</i>
17:00 – 17:20	SunC04-5	<b>Resource Conflict Resolution Method for Software Projects Using Fuzzy Critical Chain</b> 2554 <i>Yan Guo and Chao Dong</i>
17:20 – 17:40	SunC04-6	<b>Research on China's Food Industry Security early Warning Based on Prospect Theory</b> 2560 <i>Kangning Zheng and Kai Yang</i>

<b>Session</b>	<b>SunC05: Networked Control Systems (II)</b>
<b>Date/Time</b>	Sunday, 01 June 2014 / 15:40-17:40
<b>Venue</b>	Room05
<b>Chair</b>	Yuanqing Xia, <i>Beijing Institute of Tech.</i>
<b>Co-Chair</b>	Bo Xiao, <i>Wuhan Univ. of Scie. and Tech.</i>

15:40 – 16:00	SunC05-1	<b>Stabilization of Networked Control Systems with Packet Loss and Channel Uncertainty</b> 2566 <i>Jianjun Dong and Yuanqing Xia</i>
16:00 - 16:20	SunC05-2	<b>Multivariable Optimal Performance under Packet Loss For Networked Control System</b> <i>Bo Xiao, Bin Liu, and Meng-Meng Wang</i>
16:20 – 16:40	SunC05-3	<b>Research on Cross-Communication Based on Real-Time Ethernet POWERLINK</b> <i>Haiya Xu, Yan Gao, Kemin Liu, Bo Zhu and Chao Zhang</i>
16:40 – 17:00	SunC05-4	<b>Optimal Control of Linear Discrete-Time Systems with Quantization Effects</b> <i>Weizhou Su, Jie Chen, Minyue Fu and Tian Qi</i>
17:00 – 17:20	SunC05-5	<b>Local Hopf Bifurcation Analysis of Compound TCP with an Exponential-RED Queue Management Policy</b> <i>Sai Prasad and Gaurav Raina</i>
17:20 – 17:40	SunC05-6	<b>Research on the Test of Maintenance Support Force System Based on the Theory of Complex Network</b> <i>Han Zhen, Lu Yu and Gu Ping</i>
17:40 – 18:00	SunC05-7	<b>Stability and Hopf Bifurcation Analysis of TCP with a RED-Like Queue Management Policy</b> <i>Sai Prasad and Gaurav Raina</i>

<b>Session</b>	<b>SunC06: Data Processing (I)</b>	
<b>Date/Time</b>	Sunday, 01 June 2014 / 15:40-17:40	
<b>Venue</b>	Room06	
<b>Chair</b>	Ziyang Qi, <i>Harbin Institute of Tech.</i>	
<b>Co-Chair</b>	Shengnan Cui, <i>Northeastern Univ.</i>	
<b>15:40 – 16:00</b>	<b>SunC06-1</b>	<b>A Hybrid Forecasting Approach for HRG Parameters Based on Output Time Series</b> <i>Qi Ziyang, Li Qinghua, Yi Guoxing and Fang Haibin</i>
<b>16:00 – 16:20</b>	<b>SunC06-2</b>	<b>Time Series Forecasting of Medicare Fund Expenditures Based on Historical Data — Taking Dalian as an Example</b> <i>Qu Gang, Cui Shengnan and Tang Jiafu</i>
<b>16:20 – 16:40</b>	<b>SunC06-3</b>	<b>Feature Extraction by Correntropy Based Average Neighborhood Margin Maximization</b> <i>Lin-Na Ma, Hong-Jie Xing and Shun-Yan Hou</i>
<b>16:40 – 17:00</b>	<b>SunC06-4</b>	<b>Wind Turbine Gearbox Forecast Using Gaussian Process Model</b> <i>Xueru Wang, Jin Zhou and Peng Guo</i>
<b>17:00 – 17:20</b>	<b>SunC06-5</b>	<b>Algorithm for Attribute Relative Reduction Based on Generalized Binary Discernibility Matrix</b> <i>Zhang Tengfei, Yang Xingxing and Fumin Ma</i>
<b>17:20 – 17:40</b>	<b>SunC06-6</b>	<b>Multilinear Mean Component Analysis for Gait Recognition</b> <i>Yawei Tian, Xianye Ben, Peng Zhang and Menglei Sun</i>

<b>Session</b>	<b>SunC07: Control Applications (III)</b>	
<b>Date/Time</b>	Sunday, 01 June 2014 / 15:40-17:40	
<b>Venue</b>	Room07	
<b>Chair</b>	Lei Yuan, <i>Jilin Univ.</i>	
<b>Co-Chair</b>	Rongzi Yao, <i>Jilin Univ.</i>	
<b>15:40 – 16:00</b>	<b>SunC07-1</b>	<b>The Design of TCS Controller for Four Wheel Independent-Drive Electric Vehicle Based on ADRC</b> <i>Lei Yuan, Hong Chen and Bingtao Ren</i>
<b>16:00 – 16:20</b>	<b>SunC07-2</b>	<b>Torque Tracking Control of Permanent Magnet Synchronous In-Wheel Motor for Electric Vehicle</b> <i>Rongzi Yao, Xiaohua Xie and Hong Chen</i>
<b>16:20 – 16:40</b>	<b>SunC07-3</b>	<b>A Kaldor-Kalecki Model of Business Cycles: Stability and Limit Cycles</b> <i>Sreelakshmi Manjunath, Debayani Ghosh and Gaurav Raina</i>
<b>16:40 – 17:00</b>	<b>SunC07-4</b>	<b>Improved Virtual Flux Observer Based on Orthogonal Feedback Compensation Suitable for Direct Power Control Application</b> <i>Xiao Xiong, Zhang Yongjun, Wang Jing, Zhang Yongkang, Chen Tiezhu and Zhang Xiaoqing</i>
<b>17:00 – 17:20</b>	<b>SunC07-5</b>	<b>Sensorless Control of SPMSM Using Complex Number Model Based Position Estimation and EKF</b> <i>Longhu Quan, Zhanshan Wang and Xiuchong Liu</i>

17:20 – 17:40 SunC07-6 **Adaptive Filtering Design for In-Motion Alignment of INS**  
*Tong Liu, Qian Xu and Yuejun Li*

<b>Session</b>	<b>SunC08: Planning, Scheduling and Coordination (I)</b>
<b>Date/Time</b>	Sunday, 01 June 2014 / 15:40-17:40
<b>Venue</b>	Room08
<b>Chair</b>	Xingquan Zuo, <i>Beijing Univ. of Posts and Telecommunications</i>
<b>Co-Chair</b>	Cheng Zhu, <i>National Univ. of Defense Tech.</i>

15:40 – 16:00	SunC08-1	<b>A Multi-Objective Genetic Algorithm Based Bus Vehicle Scheduling Approach</b> <i>Cheng Chen and Xingquan Zuo</i>
16:00 – 16:20	SunC08-2	<b>Hybrid Appointment for a Single-Physician Clinic with No-Shows and Overbooking</b> <i>Pingping Cao and Jiafu Tang</i>
16:20 – 16:40	SunC08-3	<b>Multi-Vehicle Coordination and Flexible Scheduling Based on Simulated Annealing Algorithm</b> <i>Cheng Zhu, Luohao Tang and Weiming Zhang</i>
16:40 – 17:00	SunC08-4	<b>Rolling Horizon Scheduling Procedure for SWRO Desalination Plant Under Uncertain Freshwater Demand</b> <i>Jian Wang, Lekai Lian, Xiaolong Wang, Shu Jiangzhou and Ping Li</i>
17:00 – 17:20	SunC08-5	<b>Optimized Decision of the Bounded Rationality Newsboy Under CVaR</b> <i>Yongmei Liu and Sixuan Chen</i>
17:20 – 17:40	SunC08-6	<b>Research on the Problem of Scheduling Multi-Product Batches in the Process Industry</b> <i>Tang Qi and Zhang Qing-Shan</i>

<b>Session</b>	<b>SunC09: Perception Systems (Chinese)</b>
<b>Date/Time</b>	Sunday, 01 June 2014 / 15:40-17:40
<b>Venue</b>	Room09
<b>Chair</b>	Hongpeng Wang, <i>Nankai Univ.</i>
<b>Co-Chair</b>	Qixin Zhu, <i>Suzhou Univ. of Scie. and Techn.; East China Jiaotong Univ.</i>

15:40 – 16:00	SunC09-1	<b>A Multi-Gait Approach for Humanoid Navigation in Cluttered Environments</b> <i>G. Brooks, P. Krishnamurthy and F. Khorrami</i>
16:00 – 16:20	SunC09-2	<b>Speed Estimation for Robotic Fish Based on Pressure Sensor</b> <i>Qixin Zhu, Kun Zhong and Guangming Xie</i>
16:20 – 16:40	SunC09-3	<b>Research on Intrinsic Motivation of Robot Based on Central Nervous System</b> <i>Shi Tao, Yang Weidong and Ren Hongge</i>
16:40 – 17:00	SunC09-4	<b>A Visual Saliency Detection Algorithm Based on Channel Selecting in Transform Domains</b> <i>Shen Yifeng, Niu Yifeng and Shen Lincheng</i>

- 17:00 – 17:20 SunC09-5 **3D Irregular Object Recognition for Twist-Lock Handling System**  
*Shuang Ma, Changjiu Zhou, Liandong Zhang, Wei Hong and Yantao Tian*
- 17:20 – 17:40 SunC09-6 **Robust Hand Posture Recognition Based on RGBD Images**  
*Liang Dong, Hongpeng Wang, Ziyi Hao and Jingtai Liu*

<b>Session</b>	<b>SunC10: Renewable Energies (I)</b>
<b>Date/Time</b>	Sunday, 01 June 2014 / 15:40-17:40
<b>Venue</b>	Room10
<b>Chair</b>	Zhiyong Li, <i>Central South Univ.</i>
<b>Co-Chair</b>	De Zhang, <i>Tsinghua Univ.</i>

- 15:40 – 16:00 SunC10-1 **Lyapunov Stability Analysis for Self-Excitation of Induction Generators**  
*Haitao Li and Ziguang Lu*
- 16:00 – 16:20 SunC10-2 **Precise Sun-Tracking Control of Heliostats Based on a Sun's Image Reference System**  
*Zhu Xuemei, Mi Xiaoling, Lin Kaizhi and Huang Wenjun*
- 16:20 – 16:40 SunC10-3 **Power Oscillation Damping Controller Based on Active Disturbance Rejection Control Technique for DFIG-Based Wind Turbine Generators**  
*Zhang De, Mei Shengwei, Liu Feng and Sun Jian*
- 16:40 – 17:00 SunC10-4 **A New MPPT Control Method of Photovoltaic Grid-Connected Inverter System**  
*Li Sheng-Qing, Zhang Bin, Xu Tian-Jun and Yang Jun*
- 17:00 – 17:20 SunC10-5 **Short Term Photovoltaic Power Generation Forecasting Using RBF Neural Network**  
*Zhiyong Li, Yunlei Zhou, Cheng Cheng, Yao Li and Kexing Lai*
- 17:20 – 17:40 SunC10-6 **Suppressing Method for Photovoltaic Power Station DC Component Injection**  
*Li Shengqing, Yang Jun, Xu Tianjun and Zhang Bin*

<b>Session</b>	<b>SunC11: Intelligent Building Control and Management (Invited Session)</b>
<b>Date/Time</b>	Sunday, 01 June 2014 / 15:40-17:40
<b>Venue</b>	Room11
<b>Chair</b>	Yahui Wang, <i>Beijing University of Civil Engineering and Architecture</i>

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''\j cq'Lkpi .'Vkp'Ng.'cpf '\j cq'Uj wcklpi
- 16:00 – 16:20 SunC11-2 **A Two-Stage Approach on Island Partitioning of Power Distribution Networks with Distributed Generation**  
*Ruliang Dong, Qiang Yang and Wenjun Yan*
- 16:20 – 16:40 SunC11-3 **Research of Intelligent Coordinated Control in Indoor Environment Based on MAS**  
*Yifei Chen, Kai Qi, Baicheng Liu, Ge Li and Qiaoxue Dong*
- 16:40 – 17:00 SunC11-4 **Multi-Objective Optimal Analysis of Comfort and Energy Management for Intelligent Buildings**  
*Nan Wang, Fang Fang and Meifang Feng*

- 17:00 – 17:20      SunC11-5      **Research and Application of Intelligent Building Energy Management System**  
*Lin Jiaquan and Zhang Renqiang*
- 17:20 – 17:40      SunC11-6      **Building Energy and Control System Modeling And Simulation Using Modelica**  
*Dong He, Qingyu Xiong, Weiren Shi, Xin Shi and Jiaqi Zhang*

<b>Session</b>	<b>SunCIS: Interactive Session</b>
<b>Date/Time</b>	Sunday, 01 June 2014 / 15:40-17:40
<b>Venue</b>	Room12

- SunCIS-1      Multimode Process Monitoring Based on Correlative Principal Components and Differential Geometry Feature Extraction**  
*Zhou Funa, Zhang Yu and Yang Shuna*
- SunCIS-2      Conditions Identification Model Based on LLNFM and RBR in Cement Raw Meal Calcination Process**  
*Jinghui Qiao and Tianyou Chai*
- SunCIS-3      Multi-Level PCA and Its Application in Fault Diagnosis**  
*Wang Chunxia, Hu Jing and Wen Chenglin*
- SunCIS-4      Software-Hardware Interaction Analysis Based on Petri Net**  
*Yi Zhaoxiang, Mu Xiaodong, Zhao Peng and Yi Yaqiao*
- SunCIS-5      Amplitude Envelope Analysis for Feature Extraction of Power Plant Blower Bearing Failure**  
*Pan Zuo-Wei, An Hong-Wen, Liang Shuang-Yin and Liu Yi-Bing*
- SunCIS-6      Application of Simulation-Based Software Design Solution**  
*Konstantin Aksyonov, Eugene Bykov, Olga Aksyonova and Wang Kai*
- SunCIS-7      A Robust Fault Estimation Scheme for Heavy-Haul Trains Equipped with ECP Brake Systems**  
*Yufu Qin, Jun Peng, Xiaoyong Zhang, Yingze Yang and Fu Jiang*
- SunCIS-8      INU Fault Diagnosis Based on Genetic Wavelet Neural Network**  
*Yunlin Luo, Qingtian Dai, Li Wang and Kun Wang*
- SunCIS-9      Actuator Fault Detection Based on Robust Adaptive Observer for CCBII Braking System**  
*Jiandui Yi, Zhiwu Huang, Weirong Liu, Yingze Yang, Xiaoyong Zhang and Jianfeng Liu*
- SunCIS-10      Robust Adaptive  $H_\infty$  Fault-Tolerant Control for Uncertain Linear Systems Against Actuator Failures**  
*Li-Bing Wu, Zhi-Guo Zhang, Da-Qing Zhang and Gui-Zhi Li*
- SunCIS-11      Fault Diagnosis of Gas Turbine Based on Support Vector Machine**  
*Weihong Hu, Jiyuan Liu, Jianguo Cui, Yang Gao, Bo Cui and Liying Jiang*
- SunCIS-12      Fault Tolerant Control for UAV with Finite-Time Convergence**  
*Qiang Qu, Shan Gao, Daobo Huang, Jinsong Mei and Bin Zhai*
- SunCIS-13      Observer-Based Fault Detection for Rail Vehicle Suspension Systems**  
*Yue Wang, Zehui Mao and Bin Jiang*
- SunCIS-14      Multi-Mode Data-Based Joint Fault Detection Method**  
*Jing Hu, Chenglin Wen and Ping Li*
- SunCIS-15       $\mu$ -Analysis Control Adaptation for Online Stator and Rotor Fault Diagnosis in Induction Machines**  
*Chady Nohra*

- SunCIS-16**    **The Mixed Fault Detection Method for Rolling Bearings Based on ICA-Teager**  
*Jun Ma, Jiande Wu, Xiaodong Wang and Yugang Fan*
- SunCIS-17**     **$H_\infty$  Deconvolution Filter Design for Time-Delay Systems via Equivalent Transformation**  
*Fuqiang You and Hui Li*
- SunCIS-18**    **Robust Fault-Tolerant Cooperative Control of Multi-Agent Systems with Actuator Faults**  
*Chen Gang and Song Yongduan*
- SunCIS-19**    **Fault Estimation for Time-Varying Control Systems with Aperiodic Sample**  
*Li Ning and Feng Jian*
- SunCIS-20**    **Design of Photovoltaic Building Lightning Protection Equipment Monitoring and Early Warning System**  
*Fu-Yan Guo, Yue Wang and Min-De Huang*
- SunCIS-21**    **Research on Correlation between Science Popularization and Technological Progress Based on Panel Data**  
*Rongrong Ren, Nian Zheng, Gang Xing, Meng Zhao and Yi Tang*
- SunCIS-22**    **Grey Regressive Prediction Method of Urban Life Water Consumption**  
*Liu Bao-Zheng and Wang Ding-Wei*
- SunCIS-23**    **A Study on China's FDI in ASEAN**  
*Zhang Tonggong, Zhang Lu and Lin Hanchuan*
- SunCIS-24**    **An Empirical Study on the Relationship between Executive Rewards and Merger and Acquisition of Chinese Listed Companies**  
*Zhen-Ming Gao and Xin-Tian Zhuang*
- SunCIS-25**    **A Study on the Investment Environment of India — Based on the Questionnaires from the Related Chinese Enterprises**  
*Zhang Tonggong, Zhang Lu and Lin Hanchuan*
- SunCIS-26**    **Optimization of Storage Performance for Generic Tiered Warehouse by Genetic Algorithm**  
*Shu-An Liu, Jiawei Sun and Qing Wang*
- SunCIS-27**    **A Method for Wide Density Salt and Pepper Noise Removal**  
*Qiao Jihong, Chen Lei and Chen Yan*
- SunCIS-28**    **Optimal Site Selection for Soft Landing on Asteroid**  
*Jian-Geng Li, Jia Zhen and Xiao-Gang Ruan*
- SunCIS-29**    **Modeling Research of MEMS Gyro Drift Based on Kalman Filter**  
*Ruan Xiao-Gang and Yu Miao-Miao*
- SunCIS-30**    **Motion Descriptor Based on Aligned Cluster Analysis**  
*Qinkun Xiao and Zhonghua Zheng*
- SunCIS-31**    **Study on Characteristic Dimension and Sparse Factor in Non-Negative Matrix Factorization Algorithm**  
*Hou Mo, Yang Mao-Yun, Qiao Shu-Yun, Wang Gai-Ge and Gao Li-Qun*
- SunCIS-32**     **$L_{3/2}$  Sparsity Constrained Graph Non-Negative Matrix Factorization for Image Representation**  
*Shiqiang Du, Yuqing Shi and Weilan Wang*
- SunCIS-33**    **A Novel Blind Multi-Target Beam-Forming Algorithm in Guidance Data Link System**  
*Wei Xufang, Wu Cuisheng and Yao Changhong*
- SunCIS-34**    **Mixed Noise Reduction Method Based on Fuzzy Morphological Filtering**  
*Zhu Youlian, Huang Cheng, Zhai Lifang and Pan Lingjiao*
- SunCIS-35**    **An Effective Color Image Fusion Algorithm of Visual and Infrared Night Images**  
*Wang Yajie, Shi Xiangbin, Li Fei and Ye Yongsheng*

- SunCIS-36**    **Research of Feature Extraction Algorithm Based on Steady-State Visual Evoked Potential**  
*Liqing Geng and Pengju Cui*
- SunCIS-37**    **Estimate the Densities of Pollutions in Water Quality Monitoring Systems Based on UV/vis Spectrum**  
*Tianrong Rao, Qiang Ling, Binfeng Yu and Haibo Ji*
- SunCIS-38**    **A Regularized Estimation Method for MR Inhomogeneity Correction**  
*Zhaohui Li, Qiang Ling, Kaikai Song and Feng Li*
- SunCIS-39**    **An Improved MRI Denoising Algorithm Based on Wavelet Shrinkage**  
*Kaikai Song, Qiang Ling, Zhaohui Li and Feng Li*
- SunCIS-40**    **A Multiple Autocorrelation Analysis Method for Motor Imagery EEG Feature Extraction**  
*Xiangzhou Wang, An Wang, Shuhua Zheng, Yingzi Lin and Mingxin Yu*
- SunCIS-41**    **Flame Region Detection Using Color and Motion Features in Video Sequences**  
*Miao Ligang, Chen Yanjun and Wang Aizhong*
- SunCIS-42**    **A Speech Endpoint Detection Algorithm Based on Wavelet Transforms**  
*Cao Yali, La Dongsheng, Jia Shuo and Niu Xuefen*
- SunCIS-43**    **Recognition of Sub-Health State Based on Principal Component Analysis**  
*Li Wan-Bing, Quan Hong-Wei and Peng Dong-Liang*
- SunCIS-44**    **Vibration Style Ladle Slag Detection Method Based on Discrete Wavelet Decomposition**  
*Dengfeng Chen, Haiyan Xiao and Qichun Ji*
- SunCIS-45**    **Multi-Model Self-Tuning Weighted Fusion Kalman Filter**  
*Wenqiang Liu and Guili Tao*
- SunCIS-46**    **Spectrum Sensing for Cognitive Network Based on Principal Component Analysis and Random Forest**  
*Xin Wang, Zhi-Gang Liu, Jin-Kuan Wang, Bin Wang and Xi Hu*
- SunCIS-47**    **Deep Boltzmann Machines Based Vehicle Recognition**  
*Aiqin Hu, Hong Li, Fan Zhang and Wei Zhang*
- SunCIS-48**    **An Improved Harris Corner Detection Algorithm For Low Contrast Image**  
*Liang Sun, Shuang-Qing Wang and Jian-Chun Xing*

<b>Session</b>	<b>MonA01: Robust Control (III) (Chinese)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 08:00-10:00
<b>Venue</b>	Room01
<b>Chair</b>	Yuanyuan Zou, <i>East China Univ. of Science and Tech.</i>
<b>Co-Chair</b>	Zhaoping Du, <i>Jiangsu University of Science and Tech.</i>

- 08:00 – 08:20**    **MonA01-1**    **An Analysis and Design Method for Actuator Saturation Linear Systems with Disturbance**  
*Chen Dongyan, Wang Junming, Zeng Xiaokang and Shi Yujin*
- 08:20 – 08:40**    **MonA01-2**    **Different Robust Control Methods of a Combustion System**  
*Qinghai Heng, Jing Lu, Huan Cao and Li Li*
- 08:40 – 09:00**    **MonA01-3**    **Multi-Time Scale Hierarchical Predictive Control for Energy Management of Microgrid System with Smart Users**  
*Jun Xu, Yuanyuan Zou and Yugang Niu*



09:00 – 09:20	MonA01-4	<b>The Active Disturbance Rejection Control with a Load Torque Observer for Secondary Regulation Hydraulic Speed System</b> <i>Yajun Zhou, Xiangzhou Wang and Shuhua Zheng</i>
09:20 – 09:40	MonA01-5	<b><math>H_\infty</math> Filtering for Nonlinear Systems Based on Prey-Predator Model with Stage Structure and External Disturbance</b> <i>Zhaoping Du, Yuhua Si and Songlin Hu</i>
09:40 – 10:00	MonA01-6	<b>Design of Flight Control System for Tiltrotor Conversion Using QFT</b> <i>Lu Ke, Wang Zhengzhong and Cheng Qiyong</i>

<b>Session</b>	<b>MonA02: Optimal Control and Optimization (IV) (Chinese)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 08:00-10:00
<b>Venue</b>	Room02
<b>Chair</b>	Dexin Gao, <i>Qingdao Univ. of Scie. &amp; Tech.</i>
<b>Co-Chair</b>	Ju Zhang, <i>Zhejiang Univ. of Tech.</i>

8:00 – 08:20	MonA02-1	<b>Multi-Objective Two-Level Optimal Approach for Discrete Bilinear Systems with Sinusoidal Disturbances</b> <i>Gao De-Xin, Yang Qing and Wang Min</i>
08:20 – 08:40	MonA02-2	<b>Explicit Model Predictive Control of 3-DOF Helicopter</b> <i>Zhang Ju and Cheng Xinyan</i>
08:40 – 09:00	MonA02-3	<b>Dual-Rate Inferential Predictive Control for Systems with Time-Delay</b> <i>Li Shengtao, Liu Xiaomei, Zhang Wenying, Dong Xiujuan and Jing Yuanwei</i>
09:00 – 09:20	MonA02-4	<b>The Optimizing Design for LED Color Mixing Based on Artificial Fish Swarm Algorithm</b> <i>Luan Xinyuan and Liu Tingzhang</i>
09:20 – 09:40	MonA02-5	<b>Improved Particle Swarm Optimization Algorithm in Dynamic Environment</b> <i>Changcheng Xiang, Xuegang Tan and Yi Yang</i>
09:40 – 10:00	MonA02-6	<b>First-Order Contiguity Constraint on Traffic Analysis Zone Delineation Problem</b> <i>Wang Linqing and Tang Jiafu</i>

<b>Session</b>	<b>MonA03: Nonlinear Systems (III) (Chinese)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 08:00-10:00
<b>Venue</b>	Room03
<b>Chair</b>	Jianhua Zhang, <i>East China Univ. of Scie. and Tech.</i>
<b>Co-Chair</b>	Zhonghua Zhang, <i>Northeast Dianli Univ.</i>

08:00 – 08:20	MonA03-1	<b>Nonlinear Filtering Based Joint Estimation of Parameters and States in Polynomial Systems</b> <i>Qiang Jiang and Jianhua Zhang</i>
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08:20 – 08:40	MonA03-2	<b>Initial Alignment of Large Misalignment Angle in Strapdown Inertial Navigation System Based on Gaussian Process Regression</b> <i>Zhao Xi-Jing, Wang Li-Xin, He Zhi-Kun, Zhang Bo and Zhao Han</i>
08:40 – 09:00	MonA03-3	<b><math>H_\infty</math> Filtering for a Class of Stochastic Time-Delay Nonlinear Systems</b> <i>Feng Zhao, Qingling Zhang, Chao Liu and Zedong Li</i>
09:00 – 09:20	MonA03-4	<b>Backstepping Based Direct Power Control for Rectifier</b> <i>Huang Jingjing, Zhang Aimin, Sun Yuangang, Zhang Hang, Zhang Chao and Ren Zhigang</i>
09:20 – 09:40	MonA03-5	<b>A Controller Design for Spacecraft Attitude Maneuvering with Control Saturation Based on <math>L_2</math>-Gain</b> <i>Shi Zhong, Wang Hui, Li Li and Hu Qing-Lei</i>
09:40 – 10:00	MonA03-6	<b>Chaos Control of Oscillator Circuit Based on Adaptive Backstepping Method</b> <i>Zhang Zhonghua</i>

<b>Session</b>	<b>MonA04: Hybrid Systems</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 08:00-10:00
<b>Venue</b>	Room04
<b>Chair</b>	Guangdeng Zong, <i>Qufu Normal Univ.</i>
<b>Co-Chair</b>	HuanXin Li, <i>China Univ. of Petroleum</i>

08:00 – 08:20	MonA04-1	<b>Finite-Time <math>H_\infty</math> Control for Extended Markovian Jump Systems with Partially Known Transition Probabilities</b> <i>Dong Yang and Guangdeng Zong</i>
08:20 – 08:40	MonA04-2	<b>Active Fault Tolerant Control of CSTR System Based on MLD Model</b> <i>HuanXin Li and Yu-Hong Wang</i>
08:40 – 09:00	MonA04-3	<b>On the Absolute Stability Approach to Quantized Feedback Control: Further Insight</b> <i>Xiju Zong and Xingong Cheng</i>
09:00 – 09:20	MonA04-4	<b>Sensitivity Analysis of Optimal Control Problems for Switched Systems</b> <i>Jinjin Liu, Kanjian Zhang, Xiaomei Liu and Haikun Wei</i>
09:20 – 09:40	MonA04-5	<b>Robust Fault Detection Filter Design for Linear Switched Interval Systems</b> <i>Jiawei Wang, Yi Shen and Miao Zhang</i>

<b>Session</b>	<b>MonA05: Delay Systems (Chinese)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 08:00-10:00
<b>Venue</b>	Room05
<b>Chair</b>	Chenxiao Cai, <i>Nanjing Univ. of Scie. and Tech.</i>
<b>Co-Chair</b>	Xiaobin Mao, <i>Scie. and Tech. on Information Systems Engineering Laboratory</i>

08:00 – 08:20	MonA05-1	<b>Hopf Bifurcation Analysis for a Model of RNA Silencing with Two Delays</b> <i>Tingting Yu, Xian Zhang, Guodong Zhang and Min Su</i>
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08:20 – 08:40	MonA05-2	<b>Partial Eigenvalue Assignment Problems for Time-Delayed Systems</b> <i>Xiaobin Mao</i>
08:40 – 09:00	MonA05-3	<b>Improved Robust Stability Criteria for Uncertain Discrete-Time Lur'e Systems with Interval Time-Delay</b> <i>Wenyong Duan, Chenxiao Cai and Zhengfan Liu</i>
09:00 – 09:20	MonA05-4	<b>Truncated Predictor Feedback for Periodic Linear Systems with Input Delays with Applications to the Elliptical Spacecraft Rendezvous</b> <i>Bin Zhou and Zhao-Yan Li</i>
09:20 – 09:40	MonA05-5	<b>Dual-Rate Sampled-Data <math>H_\infty</math> Control for Vehicle Active Suspension Systems</b> <i>Wei Bai, Kai Jia, Yanping Yang and Dawei Zhang</i>

<b>Session</b>	<b>MonA06: Fault Diagnosis and Fault-Tolerant Control (IV) (Chinese)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 08:00-10:00
<b>Venue</b>	Room06
<b>Chair</b>	Hao Yang, <i>Nanjing Univ.of Aeronautics and Astronautics</i>
<b>Co-Chair</b>	Xin Zhang, <i>China Jiliang Univ.</i>

08:00 – 08:20	MonA06-1	<b>Robust Fault Tolerant Control of Under-Actuated VTOL Aircraft</b> <i>Jiang Yuanqing, Yang Hao and Jiang Bin</i>
08:20 – 08:40	MonA06-2	<b>Incipient Fault Detection Based on Empirical Likelihood</b> <i>Xin Zhang, Yingping Sang, Jiusun Zeng and Zhenwei Huang</i>
08:40 – 09:00	MonA06-3	<b>Fault Detection of Rolling Bearing Based on EMD-DPCA</b> <i>Liyong Jiang, Guangting Gong, Yanpeng Zhang, Zhipeng Liu and Jianguo Cui</i>
09:00 – 09:20	MonA06-4	<b>Fault Diagnosis for Rolling Element Bearing Using EMD-DFDA</b> <i>Liyong Jiang, Yanpeng Zhang, Guangting Gong, Zhipeng Liu and Jianguo Cui</i>
09:20 – 09:40	MonA06-5	<b>Fault Diagnosis Method of Non-Linear Analog Circuits Based on Volterra Series and SVM</b> <i>Huafeng He, Yicheng Chen, Zheng Yang and Huixuan Deng</i>
09:40 – 10:00	MonA06-6	<b>A Fault-Tolerant Control Method for Satellite with Uncertainties and Saturation</b> <i>Duan Wenjie and Wang Dayi</i>

<b>Session</b>	<b>MonA07: Supply Chain and Logistics Management</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 08:00-10:00
<b>Venue</b>	Room07
<b>Chair</b>	Hali Pang, <i>Northeastern Univ.</i>
<b>Co-Chair</b>	Guihong Hu, <i>Northeastern Univ.; Heze Univ.</i>

08:00 – 08:20	MonA07-1	<b>Coordinative Scheduling Problem of Single Machine Manufacturing and Delivery with Due Date Windows</b> <i>Pang Hali</i>
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08:20 – 08:40	MonA07-2	<b>Model and Algorithm for the 4PL Multi-Objects Routing Optimization Problem Based on Low Carbon Logistics</b> <i>Hu Guihong</i>
08:40 – 09:00	MonA07-3	<b>Optimization the Location of Container Depots with Environmental Constraints</b> <i>He Peiqing</i>
09:00 – 09:20	MonA07-4	<b>Structure Choice and Equilibrium Analysis on High Timeliness Merchandise Distribution Channel</b> <i>Qian Wu, Fenyi Dong, Rong Zhang and Bin Liu</i>
09:20 – 09:40	MonA07-5	<b>A Dynamic Fuzzy Multi-Attribute Group Decision Making Method for Supplier Evaluation and Selection</b> <i>Ruirui Bai, Fanzhang Li and Jiwen Yang</i>
09:40 – 10:00	MonA07-6	<b>A Spatio-Temporal Based Parallel Insertion Algorithm for Solving Dial-A-Ride Problem</b> <i>Jingmei Guo and Chao Liu</i>

<b>Session</b>	<b>MonA08: Instrumentation Systems</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 08:00-10:00
<b>Venue</b>	Room08
<b>Chair</b>	Zhemin Wu, <i>Harbin Engineering Univ.</i>
<b>Co-Chair</b>	Qi OuYang, <i>Chongqing Univ.</i>

08:00 – 08:20	MonA08-1	<b>Moving State Marine SINS Initial Alignment Based on Transformed Cubature</b> <i>Yonggang Zhang, Yulong Huang, Zhemin Wu and Ning Li</i>
08:20 – 08:40	MonA08-2	<b>A New Method for All-Around Identification of Two-Phase Flow Pattern Based on SVM and ECT</b> <i>Yutao Wang and Shuwang Di</i>
08:40 – 09:00	MonA08-3	<b>Finite Element Simulation and Optimization Design of Capacitance Sensor with Loop Test Plate</b> <i>Bin Ji, Yutao Wang, Gang Yang and Jinfeng Yuan</i>
09:00 – 09:20	MonA08-4	<b>EMAT Detection Method of Spray Cooling Characteristics for Industrial Nozzle</b> <i>Qi Ouyang, Yue Bing Zeng, Xinglan Zhang and Xi Meng Chen</i>
09:20 – 09:40	MonA08-5	<b>Design of Engine Data Acquisition PCI Card Based on FPGA</b> <i>Zhu Yang and Wang Min-Hui</i>
09:40 – 10:00	MonA08-6	<b>Fractional Fourier Transform for Ultrasonic Ranging Device</b> <i>Zheng Yong-Jun, Li He, Wang Fei and Zhu Shan-An</i>

<b>Session</b>	<b>MonA09: Space and Underwater Robots</b>	
<b>Date/Time</b>	Monday, 02 June 2014 / 08:00-10:00	
<b>Venue</b>	Room09	
<b>Chair</b>	Shengying Zhu, <i>Beijing Institute of Tech.</i>	
<b>Co-Chair</b>	Changzhong Pan, <i>Hunan Univ. of Scie. and Tech.</i>	
<b>08:00 – 08:20</b>	<b>MonA09-1</b>	<b>Deep Space Moving Target Detection Based on Technology of Image Matching</b> <i>Xiu Ha-Ning, Zhu Sheng-Ying and Cui Ping-Yuan</i>
<b>08:20 – 08:40</b>	<b>MonA09-2</b>	<b>An Efficient Neural Network Based Tracking Controller for Autonomous Underwater Vehicles Subject to Unknown Dynamics</b> <i>Chang-Zhong Pan, Simon X. Yang, Xu-Zhi Lai and Lan Zhou</i>
<b>08:40 – 09:00</b>	<b>MonA09-3</b>	<b>Horizontal Zigzag Maneuverability of UUV in Limited Space</b> <i>Caoyang Yu, Xianbo Xiang and Rui Zhao</i>
<b>09:00 – 09:20</b>	<b>MonA09-4</b>	<b>A Traveling Wave Fitting Method for Robotic Fish with a Multi-Joint Caudal Fin</b> <i>Ren Guang, Wang Chao and Wang Fei</i>
<b>09:20 – 09:40</b>	<b>MonA09-5</b>	<b>Networked Mars Satellite System Design and Autonomous Navigation Analysis</b> <i>Subuda Menggen, Pingyuan Cui and Shengying Zhu</i>
<b>09:40 – 10:00</b>	<b>MonA09-6</b>	<b>Vibration Suppressive Control of Flexible-Joint Space Manipulators Based on Legendre Pseudospectral Method</b> <i>Guangyan Xu, Changming Sun, Hongmei Zhang, Xia Chen and Biao Zhou</i>

<b>Session</b>	<b>MonA10: Renewable Energies (II)</b>	
<b>Date/Time</b>	Monday, 02 June 2014 / 08:00-10:00	
<b>Venue</b>	Room10	
<b>Chair</b>	Yang Hu, <i>North China Electric Power Univ.</i>	
<b>Co-Chair</b>	Zhiyong Li, <i>Central South Univ.</i>	
<b>08:00 – 08:20</b>	<b>MonA10-1</b>	<b>LPV T-S Fuzzy Gain Scheduling Control of WTGS Below Rated Wind Speed</b> <i>Yang Hu, Jizhen Liu and Zhongwei Lin</i>
<b>08:20 – 08:40</b>	<b>MonA10-2</b>	<b>Flexible Grid-Connection Technique of Quasi-Z Source Photovoltaic Power Generation System Based on Direct Power Control</b> <i>Yuxun Luo, Zhiyong Li, Xingyao He and Xuexiu Zeng</i>
<b>08:40 – 09:00</b>	<b>MonA10-3</b>	<b>Energy Dynamic Optimization Model Research for Off-Grid Run Micro Grid</b> <i>Qing Ai, Dongshan Geng, Shaowu Li, Yongchao Yang and Kunyi Chen</i>
<b>09:00 – 09:20</b>	<b>MonA10-4</b>	<b>The Influence of Groundwater Seepage on Ground Heat Exchange</b> <i>Gangjie Yang and Min Guo</i>
<b>09:20 – 09:40</b>	<b>MonA10-5</b>	<b>Modeling and Simulation of Heat and Moisture Transfer of the Geothermal Borehole</b> <i>Quanwen Jiao and Yating Zhang</i>

**09:40 – 10:00**      **MonA10-6**      **Modeling and Simulation of Four Boreholes Heat Transfer and Intermittent Running**  
*Yating Zhang and Quanwen Jiao*

<b>Session</b>	<b>MonA11: Computer Games (Invited Session)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 08:00-10:00
<b>Venue</b>	Room11
<b>Chair</b>	Xinhe Xu, <i>Northeastern Univ.</i>
<b>Co-Chair</b>	

**08:00 – 08:20**      **MonA11-1**      **UCT Algorithm in Amazons Human-Computer Games**  
*Xiali Li, Liang Hou and Licheng Wu*

**08:20 – 08:40**      **MonA11-2**      **Search Strategy Research and Analysis for Surakarta Chess Game**  
*Chang Liu, Jiaxin Wang and Yunpeng Zhang*

**08:40 – 09:00**      **MonA11-3**      **Application and Design of Computer Games System in Connect6**  
*Tao Jun*

**09:00 – 09:20**      **MonA11-4**      **The Game Method of Checkers Based on Alpha-Beta Search Strategy with Iterative Deepening**  
*Zicheng Zhao, Songze Wu, Jiao Liang, Fuyu Lv and Changlong Yu*

**09:20 – 09:40**      **MonA11-5**      **Chinese Chess Recognition Algorithm Based on Computer Vision**  
*Wu Gui and Tao Jun*

**09:40 – 10:00**      **MonA11-6**      **The Overview for UAV Air-Combat Decision Method**  
*Li Fu, Fuhuai Xie, Dongzheng Wang and Guanglei Meng*

<b>Session</b>	<b>MonAIS: Interactive Session</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 08:00-10:00
<b>Venue</b>	Room12

**MonAIS-01**      **Predictive Control of Arc Furnace Based on Genetic Algorithm**  
*Guan Ping, Liu Xiaohe and Gao Yuezhao*

**MonAIS-02**      **A Simple Model of Human Balance Postural Control**  
*Jin Zhuang Xiao, Wenhui Zhou and Hongrui Wang*

**MonAIS-03**      **Fast Model Predictive Control of 3-DOF Helicopter**  
*Zhang Ju and Yu Rong*

**MonAIS-04**      **Research on the Modeling and Simulation of Multi-axial Drag Lifting Work System Using the Distributed Net Modeling Approach**  
*Tang Gang, Xu Xianglian, Xu Pingting and Liu Ting*

**MonAIS-05**      **Trajectory Planning of 6-DOF Manipulator Based on Combination Function Method**  
*Ma Shuhua, Yang Lin, Liu Zhigang and Wang Jinkuan*

- MonAIS-06**                    **Object Tracking via Fragment-Based Multi-task Sparse State Inference**  
*Chunjuan Bo, Rubo Zhang, Guanqun Liu and Hongguang Cao*
- MonAIS-07**                    **Dynamic Modeling and Control for a Morphing Aircraft**  
*Zhang Jie and Wu Sen-Tang*
- MonAIS-08**                    **Transition Trajectory Guidance for A Conceptual Space-Based Missile**  
*Zhengdong Hu, Xuemei Tang and Wenli Yan*
- MonAIS-09**                    **Model Predictive Contouring Control for Direct Drive XY Table**  
*Zheng Hao and Wang Limei*
- MonAIS-10**                    **Adaptive Zero Phase Based Internal Model Control for Direct Drive XY Table**  
*Li Long*
- MonAIS-11**                    **Compensation of Dead-time Effects Based on Adaptive Voltage Disturbance Estimator in PMSM Drives**  
*Xiao Haifeng and He Yuyao*
- MonAIS-12**                    **A Discrete Model Reference Sliding Mode Controller with a Disturbance Compensator and Its Application to Flight Simulator**  
*Cai Chao, Wang Wei-Hong and Zhang Wu-Long*
- MonAIS-13**                    **A Research of DC Motor Dual Close-Loop PID Speed-Tuning System on the Basis of ABC Algorithm**  
*Dongshan Geng, Kunyi Chen, Yongchao Yang, Shaowu Li and Qing Ai*
- MonAIS-14**                    **Research on Static Evaluation Method for Computer Game of NoGo**  
*Yuxia Sun, Guojun Rao, Huimin Sun and Yuan Wei*
- MonAIS-15**                    **Study of Strategy Selection Based on Phantom Go**  
*Li Fei, Ouyang Li, Wang Yajie and Dong Yanqiu*
- MonAIS-16**                    **Research of Einstein würfelt nicht! Monte Carlo Algorithm Based on Optimized Evaluation**  
*Xiaoyan Wang, Hong Zhang, Yajie Wang, Jie Qi and Bin Zhou*
- MonAIS-17**                    **The Analysis and Research on Computational Complexity**  
*Qiang Gao and Xinhe Xu*
- MonAIS-18**                    **Automation Control System for 1.2Mt/a Pelletizing Plant of JINDAL SAW Co., Ltd., India**  
*Cao Pengfei, Ning Jianxin and Haribansh Yadav*
- MonAIS-19**                    **Dynamic Modeling and Analysis for a New Grounding Method**  
*Zhang Zhi-Gang, Ding Wei-Dong and Li Xue-Feng*
- MonAIS-20**                    **System Design For Aircraft Fuel Control And Maintenance Test-Bed**  
*Zhang Chuntang and Wang Shaokun*
- MonAIS-21**                    **Control System Design and Simulation for UAV During Aerial Refueling**  
*Zhiping Liu, Mingjing Zhu and Fang Tan*
- MonAIS-22**                    **A Dead-Beat Control Method for APF Based on Mixed Prediction**  
*Han Wei, Wang Dazhi, Li Yunlu and Liu Zhen*
- MonAIS-23**                    **The Research and Application of Heavy Conventional Weapons Simple Guidance Technology in the Future**  
*Xuming, Liubin and Yujinlong*

- MonAIS-24**                    **A New Chaotic Secure Communication Scheme Based on Shape Synchronization**  
*Yuan-Yuan Huang and Yin-He Wang*
- MonAIS-25**                    **Estimation Model and Simulation for Auditory Localization with Fewer Sensors**  
*Chen Bing, Gao Yong, Yin Zuwei and Gao Wei*
- MonAIS-26**                    **Design of Fuzzy Controller for Air-Conditioning Systems Based-On Semi-Tensor Product**  
*Hua Xiao-Hui, Duan Pei-Yong, Lv Hong-Li, Zhang Zhao-Sheng, Yang Xiu-Wen and Zhang Chun-Jun*
- MonAIS-27**                    **Design and Implementation of the Electric Gripper Control System Based on the DSP**  
*Zhanglei Chen, Jianming Xu, Li Yu, Yuansheng Xiong and Haitao Zhu*
- MonAIS-28**                    **Neural Networks Adaptive Control of Aircraft Engine Based on Genetic Algorithm**  
*Hongmei Zhang, Ziyun Dong and Guangyan Xu*
- MonAIS-29**                    **Supervisory Predictive Control of Weighted Least Square Support Vector Machine Based on Cauchy Distribution**  
*Li Suzhen, Liu Xiangjie and Yuan Gang*
- MonAIS-30**                    **DSP Based Digital Control System Implementation of Permanent Magnet Synchronous Motor**  
*Li Long*
- MonAIS-31**                    **Research on Effect Airwake Acts on Glide Performance of Carrier-Based Aircraft**  
*Yu Yongtao and Zhang Zhi*
- MonAIS-32**                    **Experimental Research on Microvibrations of Magnetically Suspended Momentum Wheel**  
*Cong Peng, Jiancheng Fang, Hu Liu, Yahong Fan, Meng Meng and Jiyang Zhang*
- MonAIS-33**                    **Design and Implementation of the Remote Control of ICCP Systems**  
*Xiaohua Wang, Meijiao Hu, Yao Huang, Jun Gu, Shouwei Gao and Zhonghua Miao*
- MonAIS-34**                    **Decoupled PID Controller for Wind Tunnel System**  
*Tingfeng Zhang, Zhizhong Mao and Ping Yuan*
- MonAIS-35**                    **The Research on the Supply-Chain Management Based on E-Business Platform**  
*Wei Liu and Zi Wang*
- MonAIS-36**                    **Coordination and Incentives in a Supply Chain with Manufacturer Quality Effort**  
*Wei Xiong*
- MonAIS-37**                    **Research on Logistics Cost Control of Coal Enterprises**  
*Yi Zhang and Mengxiang Zhang*
- MonAIS-38**                    **Comparison of Two Alternative Policies to Reduce No-Show in Appointment System**  
*Chongjun Yan and Jiafu Tang*
- MonAIS-39**                    **An Inventory Control Model for Perishable Items with Stochastic Replenishment Interval and Stock-Dependent Selling Rate**  
*Guang-Fan Xu, Xiao-Jia Wang, Yan-Yan Wu and Shan-Lin Yang*



- MonAIS-40**                    **Green Supply Chain Management: A State of the Art Review**  
*Wenxing Wang*
- MonAIS-41**                    **Research on Wartime Aircraft Carrier SoS POL Support Strategy Based on System Dynamics**  
*Wen Tianjian, Pan Xin and Wu Yong*
- MonAIS-42**                    **Collaborative Information Management in Agricultural Products Supply Chain in China: A Case Study of Wumart**  
*Wenxing Wang*
- MonAIS-43**                    **Research on UWB-Based Location Technology Applied for Hazardous Chemicals Stacking Storage**  
*Lv Xin, Liu Xue-Jun, Dai Bo and Ye-Quan Wang*
- MonAIS-44**                    **MBPLS-Based Rail Vehicle Suspension System Fault Detection**  
*Xiukun Wei, Ying Guo and Limin Jia*
- MonAIS-45**                    **Data-Driven Thermal Efficiency Modeling and Optimization for Co-Firing Boiler**  
*Jian-Guo Wang, Juan-Juan Wang, Qian-Ping Xiao, Shi-Wei Ma, Wen-Tao Rao and Yong-Jie Zhang*
- MonAIS-46**                    **Soft Sensor Approach for Optimal Operation of Cooling Tower for Energy Conservation**  
*Jian-Guo Wang, Qian-Ping Xiao, Juan-Juan Wang, Shi-Wei Ma, Wen-Tao Rao and Yong-Jie Zhang*
- MonAIS-47**                    **The Adaptive Dynamic Programming Based on the Data - A Total Least Squares Approach**  
*Zhang Bo, Zhang Da-Qing, Yu Yi-Fa and Zhang Gang-Gang*
- MonAIS-48**                    **An Optimal Sparseness Approach for Least Square Support Vector Machine**  
*Jia Luo, Shihe Chen, Le Wu and Shirong Zhang*

<b>Session</b>	<b>MonB01: Complex Networks and Systems (II)</b>	
<b>Date/Time</b>	Monday, 02 June 2014 / 10:20-12:20	
<b>Venue</b>	Room01	
<b>Chair</b>	Guoping Jiang, <i>Nanjing University of Posts and Telecommunications</i>	
<b>Co-Chair</b>	Lili Zhang, <i>Guangdong University of Tech.</i>	
<b>10:20 – 10:40</b>	<b>MonB01-1</b>	<b>Path Selection Algorithm Based on AHP for Small-World with Three-Weight</b> <i>Zhou Bin-Bin and Chen Xue-Bo</i>
<b>10:40 – 11:00</b>	<b>MonB01-2</b>	<b>Synchronization for Nonlinearly Coupled Complex Dynamical Networks with Different Dimensional Nodes</b> <i>Lili Zhang, Yinhe Wang and Qinruo Wang</i>
<b>11:00 – 11:20</b>	<b>MonB01-3</b>	<b>State Estimation for Nonlinear Coupled Complex Dynamical Networks with Time Delay</b> <i>Sun Yingyou and Jiang Guoping</i>

11:20 – 11:40	MonB01-4	<b>Research on the Emergence Mechanism of Last Planner System of Lean Construction</b> <i>Zhu Kongguo</i>
11:40 – 12:00	MonB01-5	<b>From View of Complex Network: Fractal Dimension of Music Notation</b> <i>Ningkui Wang and Daijun Wei</i>
12:00 – 12:20	MonB01-6	<b>Revisiting Singular Boolean Networks</b> <i>Min Meng and Jun-E Feng</i>

<b>Session</b>	<b>MonB02: Co-Operative Control (Chinese)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 10:20-12:20
<b>Venue</b>	Room02
<b>Chair</b>	Jianxiang Xi, <i>High-Tech Institute of Xi'an</i>
<b>Co-Chair</b>	Zhiyong Geng, <i>Peking Univ.</i>

10:20 – 10:40	MonB02-1	<b>Finite Time Optimal Formation Control for Multiple Vehicles</b> <i>Zhiyong Geng</i>
10:40 – 11:00	MonB02-2	<b>Coverage and Control of Diffusion Process Based on Centroidal Voronoi Tessellations</b> <i>KeCai Cao, MengJiao Lv, Xiang Gao and PingWei Fan</i>
11:00 – 11:20	MonB02-3	<b>Formation Tracking Control for Multi-Agent Systems with Nonlinear Dynamics via Impulsive Control</b> <i>Meng Liu, Yan-Wu Wang, Jiang-Wen Xiao and Xiao-Kang Liu</i>
11:20 – 11:40	MonB02-4	<b>Observer-Based Finite-Time Tracking Control for Formations of Mobile Robots</b> <i>Tairen Sun, Xin Yu and Guohai Liu</i>
11:40 – 12:00	MonB02-5	<b>Consensus-Based Formation Control with Dynamic Role Assignment</b> <i>Zhongqi Sun and Yuanqing Xia</i>
12:00 – 12:20	MonB02-6	<b>Second-Order Consensus of Discrete-Time Multi-Agent Systems via One-Step Delayed Data</b> <i>Guang-Hui Xu, Ji-Shi Zhang, Rui-Quan Liao, Ding-Xue Zhang and Zhi-Hong Guan</i>

<b>Session</b>	<b>MonB03: Intelligent Systems (II) (Chinese)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 10:20-12:20
<b>Venue</b>	Room03
<b>Chair</b>	Zhifu Li, <i>South China Univ. of Tech.</i>
<b>Co-Chair</b>	Hexu Sun, <i>Hebei Univ. of Tech.</i>

10:20 – 10:40	MonB03-1	<b>Monotonically Convergent Feedback-Forward Iterative Learning Control for Linear Discrete-Time Systems</b> <i>Zhifu Li and Yueming Hu</i>
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10:40 – 11:00	MonB03-2	<b>Improved Differential Evolution Algorithm and Its Application in Complex Function Optimization</b> <i>Xiao Gang Dong, Yan Liu and ChangShou Deng</i>
11:00 – 11:20	MonB03-3	<b>Predictive Image Based Visual Servoing of Manipulators with Multiple Constraints</b> <i>Liu Weipeng, Chen Haiyong, Sun Hexu and Xing Guansheng</i>
11:20 – 11:40	MonB03-4	<b>A Novel Method for Face Recognition</b> <i>Zhu Sonhao, Hu Xuewei, Sun Wei and Hu Ronglin</i>
11:40 – 12:00	MonB03-5	<b>Video Abstraction via Learning the Progress of Story</b> <i>Zhu Sonhao, Liu Jiawei and Hu Ronglin</i>
12:00 – 12:20	MonB03-6	<b>A Novel Approach for Improving Image Annotation Quality</b> <i>Zhu Sonhao, Liu Jiawei and Hu Ronglin</i>

<b>Session</b>	<b>MonB04: Distributed Parameter Systems</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 10:20-12:20
<b>Venue</b>	Room04
<b>Chair</b>	Lu Lu, <i>Beijing Inst. of Tech.</i>
<b>Co-Chair</b>	Leping Bao, <i>Southeast Univ.</i>

10:20 – 10:40	MonB04-1	<b>An Architecture Model of Cloud Manufacturing Based on Multi-Agent Technology</b> <i>Han Zhang, Ruifeng Guo and Cong Geng</i>
10:40 – 11:00	MonB04-2	<b>Asymptotical Stabilization of Linear Distributed Parameter Switched Systems</b> <i>Leping Bao and Shumin Fei</i>
11:00 – 11:20	MonB04-3	<b>Mobile Sensor Networks for Sampled-Data Control of a Class of Distributed Parameter Systems</b> <i>Xueming Qian and Baotong Cui</i>
11:20 – 11:40	MonB04-4	<b>Exponential Stability for Linearized Korteweg-De Vries-ODE System</b> <i>Lu Lu, Dong-Xia Zhao and Lin-Hong Yao</i>
11:40 – 12:00	MonB04-5	<b>Stabilization for Boundary Controlled Cascaded Heat-ODE System with Time-Dependent Coefficient</b> <i>Zhongcheng Zhou</i>

<b>Session</b>	<b>MonB05: Decision-Making Theory and Method (IV) (Chinese)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 10:20-12:20
<b>Venue</b>	Room05
<b>Chair</b>	Daizhan Cheng, <i>Shandong Univ.</i>
<b>Co-Chair</b>	Renzi Yang, <i>Southeast Univ.</i>

10:20 – 10:40	MonB05-1	<b>Convergence of Potential Networked Evolutionary Games</b> <i>Yuanhua Wang, Ting Liu and Daizhan Cheng</i>
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10:40 – 11:00	MonB05-2	<b>Integer Programming Based Optimal Side Jets Ignition Combination for Advanced Missile Attitude Control</b> <i>Wang Zhenchao, Yang Lingyu, Zhang Jing and Shen Gongzhang</i>
11:00 – 11:20	MonB05-3	<b>The Evaluation Method of Knowledgeable Manufacturing System Based on Knowledge Mesh</b> <i>Yang Ren-Zi and Wang Jing</i>
11:20 – 11:40	MonB05-4	<b>Emergency Response Decision-Making Based on HTN Planning</b> <i>Qi Chao and Wang Hongwei</i>
11:40 – 12:00	MonB05-5	<b>The Research on Inventory Cost of Tool Based on Life Cycle</b> <i>Li Dong, Penf Hui, Liu Chang and Jiang Li-Ping</i>
12:00 – 12:20	MonB05-6	<b>An Equipment Requirements Development Method Based on Antagonism Seminar</b> <i>Ma Guo-Pu and Ding Yong</i>

<b>Session</b>	<b>MonB06: Fault Diagnosis and Fault-Tolerant Control (V) (Chinese)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 10:20-12:20
<b>Venue</b>	Room06
<b>Chair</b>	Shuai Tan, <i>Northeastern Univ.</i>
<b>Co-Chair</b>	Ling Zhao, <i>Chongqing Jiaotong Univ., and Chongqing Univ.</i>

10:20 – 10:40	MonB06-1	<b>Online Monitoring for Multiple Mode Processes Based on Gaussian Mixture Model</b> <i>Tan Shuai, Chang Yuqing, Wang Fuli, Peng Jun and Wang Shu</i>
10:40 – 11:00	MonB06-2	<b>Parameter Optimization Algorithm of SVM for Fault Classification in Traction Converter</b> <i>Zhao Jin, Wu Chaorong, Huang Chengguang and Wu Feng</i>
11:00 – 11:20	MonB06-3	<b>Fault Diagnosis for Gearbox Based on EMD and Multigractal</b> <i>Zhao Ling, Chu Xiaoyan and Huang Darong</i>
11:20 – 11:40	MonB06-4	<b>The Rolling Bearing Fault Diagnosis Based on LMD and LS-SVM</b> <i>Yongxia Bu, Jiande Wu, Jun Ma, Xiaodong Wang and Yugang Fan</i>
11:40 – 12:00	MonB06-5	<b>Fault Diagnosis of Industrial Process Based on KICA and LSSVM</b> <i>Xiaoya Zhang, Xiaodong Wang, Yugang Fan and Jiande Wu</i>
12:00 – 12:20	MonB06-6	<b>Hierarchical Method of Fault Diagnosis Based on Extended SDG</b> <i>Yingjie Liu, Gang Xie, Yunyun Yang, Zehua Chen and Qinglong Chai</i>

<b>Session</b>	<b>MonB07: Control Applications (IV)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 10:20-12:20
<b>Venue</b>	Room07
<b>Chair</b>	Lingshuang Kong, <i>Hunan University of Technology</i>
<b>Co-Chair</b>	Wenyan Tang, <i>Hunan University of Technology</i>
<b>10:20 – 10:40</b>	<b>MonB07-1 Research on Modelling and Control of Three-Level PWM Rectifier System</b> <i>Gao Shi-Hong and Qian Xiao-Long</i>
<b>10:40 – 11:00</b>	<b>MonB07-2 The Study of Single-Phase PWM Rectifier Based on PR Control Strategy</b> <i>Wang Helin, Cheng Qiming, Li Ming, Chen Gen and Deng Liang</i>
<b>11:00 – 11:20</b>	<b>MonB07-3 Implementation of an Improved UKF Algorithm in Electronic Whiteboard Positioning</b> <i>Yu Jianjun, Zhang Yingkun, Ruan Xiaogang, Sun Yongfang</i>
<b>11:20 – 11:40</b>	<b>MonB07-4 The Design and Implementation of ECM Control System</b> <i>Chen Mei, Qiu Ya, Chen Wei and Zheng Tao</i>
<b>11:40 – 12:00</b>	<b>MonB07-5 Analysis of the Impact of Translating Cowl on Hypersonic Vehicle Performance</b> <i>Liqian Dou, Yuye Shen and Ran Ji</i>
<b>12:00 – 12:20</b>	<b>MonB07-6 Self-Adaptive Fuzzy PID Control Algorithm Used in Liquid Mixing Device</b> <i>Ma Fengying and Li Huanling</i>

<b>Session</b>	<b>MonB08: Mobile Robotics (Chinese)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 10:20-12:20
<b>Venue</b>	Room08
<b>Chair</b>	Ruilei Zhang, <i>Nanjing Univ.of Scie. and Tech.</i>
<b>Co-Chair</b>	Zi Yang, <i>East China Normal Univ.</i>
<b>10:20 – 10:40</b>	<b>MonB08-1 Design of Inductively Wireless Power Transmission Apparatus</b> <i>Yunlong Zhu and Lei Yu</i>
<b>10:40 – 11:00</b>	<b>MonB08-2 RGB-D Sensor Based Mobile Robot SLAM in Indoor Environment</b> <i>Lyu Qiang, Liu Feng, Wang Xiaolong and Wang Guosheng</i>
<b>11:00 – 11:20</b>	<b>MonB08-3 A Method of Map Building Based on Sonar and Human-Robot Interaction</b> <i>Liu Shuhua, Zhao Yu and Li Runmin</i>
<b>11:20 – 11:40</b>	<b>MonB08-4 A SRT-Based Path Planning Algorithm in Unknown Complex Environment</b> <i>Zou Yiping, Guo Jian, Zhang Ruilei and Chen Qingwei</i>
<b>11:40 – 12:00</b>	<b>MonB08-5 Block-Guided Theta* Path Planning Algorithm</b> <i>Zi Yang and Wensheng Yu</i>
<b>12:00 – 12:20</b>	<b>MonB08-6 The Review and Implementation of Multi-Robot System Simulation Software</b> <i>Zhang Ruilei, Zou Yiping, Xu Zhihao and Chen Qingwei</i>

<b>Session</b>	<b>MonB09: Modeling, Control and Simulations of Biological Systems (I)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 10:20-12:20
<b>Venue</b>	Room09
<b>Chair</b>	Huan Geng, <i>Northeastern Univ.</i>
<b>Co-Chair</b>	Chao Liu, <i>Northeastern Univ.</i>

<b>10:20 – 10:40</b>	<b>MonB09-1</b>	<b>Dynamical Analysis of a Differential-Algebraic Bioeconomic Model with Stage Structure and Maturation Delay</b> <i>Chao Liu, Yuanke Li and Can Tong</i>
<b>10:40 – 11:00</b>	<b>MonB09-2</b>	<b>Fast 3D Skeleton Extraction of Airways and Applications to Virtual Bronchoscopy</b> <i>Huan Geng, Jinzhu Yang, Wenjun Tan, Yuliang Yuan, Fangfang Han and Dazhe Zhao</i>
<b>11:00 – 11:20</b>	<b>MonB09-3</b>	<b>The Analysis of the Associated Shannon Entropy on the Populations with Homologous Genotypes Mating and Homologous Phenotypes Mating</b> <i>Hongyan Zhang and Hongli Zhang</i>
<b>11:20 – 11:40</b>	<b>MonB09-4</b>	<b>Target Detection Based on a Model of Visual Attention for UAV</b> <i>Geng Wang</i>
<b>1:40 – 12:00</b>	<b>MonB09-5</b>	<b>Finite Element Analysis Model of Wheat Lodging Resistance</b> <i>Qicheng Xu, Zhen Yuan and Changchun Sun</i>
<b>12:00 – 12:20</b>	<b>MonB09-6</b>	<b>Mechanical Model of Wheat and Analysis of Root Lodging</b> <i>Qicheng Xu, Changchun Sun and Zhen Yuan</i>

<b>Session</b>	<b>MonB10: Traffic Control</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 10:20-12:20
<b>Venue</b>	Room10
<b>Chair</b>	Chuang Guo, <i>Beijing Univ. of Tech.</i>
<b>Co-Chair</b>	Rui Chai, <i>Beijing Institute of Tech.</i>

<b>10:20 – 10:40</b>	<b>MonB10-1</b>	<b>Robot Fish Detection Based on a Combination Method of Three-Frame-Difference and Background Subtraction</b> <i>Lan Yongtian, Ji Zhijian, Gao Junwei and Wang Yaowei</i>
<b>10:40 – 11:00</b>	<b>MonB10-2</b>	<b>Research of Cross-Correlation Tracking Algorithm Based on Variabl Template</b> <i>Huiying Dong, Tengguang Jiang, Yanjie Cai and Qifu Zhang</i>
<b>11:00 – 11:20</b>	<b>MonB10-3</b>	<b>Changing Lane Probability Estimating Model Based on Neural Network</b> <i>Jianqun Wang, Rui Chai and Qingyang Wu</i>
<b>11:20 – 11:40</b>	<b>MonB10-4</b>	<b>A Route-Choice Method Based on Zone Traffic Signal Coordination Control</b> <i>Ding Xiaoqing, Dong Honghui and Huang Shihong</i>

1:40 – 12:00	MonB10-5	<b>On Optimization of Highway Electrical Equipment Maintenance Investment</b> <i>Zhigang Shi, Xiujun Yang and Zhenwei Chen</i>
12:00 – 12:20	MonB10-6	<b>Leader-Follower and Cascade System Based Formation Control of Nonholonomic Intelligent Vehicles</b> <i>Chuang Guo, Jiali Qin, Yanrong Ge and Yangzhou Chen</i>

<b>Session</b>	<b>MonB11: Computer Games (Invited Session)</b>	
<b>Date/Time</b>	Monday, 02 June 2014 / 10:20-12:20	
<b>Venue</b>	Room11	
<b>Chair</b>	Xinhe Xu, <i>Northeastern Univ.</i>	
<b>Co-Chair</b>		
10:20 – 10:40	MonB11-1	<b>The Design and Optimization of Connect6 Computer Game System</b> <i>Chang Liu, Bingke Wu and Sichen Wu</i>
10:40 – 11:00	MonB11-2	<b>Applying Determinized MCTS in Chinese Military Chess</b> <i>Chenjun Xiao, Tan Zhu, Chao Lin, Xinhe Xu and Jiao Wang</i>
11:00 – 11:20	MonB11-3	<b>Analysis of Search Algorithm in Computer Game of Amazons</b> <i>Qiu Hongkun, Zhang Peng, Wang Yajie, Wu Jiehong and Li Fei</i>
11:20 – 11:40	MonB11-4	<b>The Computer Game Model of Dou Dizhu</b> <i>Mei Xian, Zhang Dianlong, Sun Deqiang, Zhang Boya, Du Shijin and Zhang Hongbo</i>
1:40 – 12:00	MonB11-5	<b>The Overview of Aircraft Landing Gear Co-Simulation Based on Virtual Prototype Technology</b> <i>Li Fu, Chaoran Yang, Dongzheng Wang and Wei Hu</i>
12:00 – 12:20	MonB11-6	<b>A New Storage Structure Design of Surakarta Chess Based on Location</b> <i>Yicong Zhang</i>

<b>Session</b>	<b>MonBIS: Interactive Session</b>	
<b>Date/Time</b>	Monday, 02 June 2014 / 10:20-12:20	
<b>Venue</b>	Room12	
MonBIS-1	<b>3D Chinese Mouth Animation with Adaptive Encoding</b> <i>Yu Haitao and Ge Shuiying</i>	
MonBIS-2	<b>Dynamic Tracking of Ceramic Ring Detection System Based on Image Processing</b> <i>Liu Yuxue and Lu Linji</i>	
MonBIS-3	<b>Online Object Tracking Based on Sparse Subspace Representation</b> <i>Wang Bao-Yun, Chen Fei and Deng Ping</i>	
MonBIS-4	<b>Three-Dimensional Path Planning for UAV Based on Improved PSO Algorithm</b> <i>Qiang Wang, An Zhang and Linghui Qi</i>	
MonBIS-5	<b>Visual Tracking Based on Local Patches</b> <i>Wang Baoyun, Zhou Lei and Deng Ping</i>	

- MonBIS-6**      **A Recognition Method of Plate Shape Defect Based on RBF-BP Neural Network Optimized by Genetic Algorithm**  
*Xiaohua Li, Tao Zhang, Zhe Deng and Jing Wang*
- MonBIS-7**      **Urban Water Demand Forecasting by LS-SVM with Tuning Based on Elitist Teaching-Learning-Based Optimization**  
*Gang Ji, Jingcheng Wang, Yang Ge and Huajiang Liu*
- MonBIS-8**      **A Khmer Named Entity Recognition Method by Fusing Language Characteristics**  
*Pan Huashan, Yan Xin, Yu Zhengtao and Guo Jianyi*
- MonBIS-9**      **BTP Prediction of Sintering Process by Using Multiple Models**  
*Jialin Wang, Xiaoli Li, Yang Li and Kang Wang*
- MonBIS-10**     **Study on the Plant-Wide Modeling of Gold Hydrometallurgical Process**  
*Qingyun Yuan, Fuli Wang, Dakuo He, Runda Jia and Cong Wang*
- MonBIS-11**     **Simulation Based Correlation Analysis on Performance Issues of Semiconductor Wafer Fabrication Facilities**  
*Xingwei Pan, Li Li, Zhongbo Chen and Pengde Jia*
- MonBIS-12**     **A Study on the Effect of Water Vapor Condensation on the Stratospheric Airship Ascending Process**  
*Zhenzhen Li, Xiaomin Wang and Xianwu Lin*
- MonBIS-13**     **Dynamic Soft Sensor Modeling Based on State Detection and Impulses Response Template**  
*Zhi Fan, Jie Cao and Yujie Wei*
- MonBIS-14**     **Research on the Separation Process Model of Pressure Swing Adsorption for CO<sub>2</sub>/N<sub>2</sub> with Zeolite Molecular Sieve**  
*Liyang Liu, Tao Du, Xin Fang, Shuai Che and Wenjun Tan*
- MonBIS-15**     **Modeling and Simulation for Boiler Combustion Control System of 1000MW Ultra-Supercritical Unit**  
*Hou Guolian, Jiang Pengcheng, Zheng Xiaobin and Zhang Jianhua*
- MonBIS-16**     **The Battlefield Environment of Two-Dimensional Posture Display Based on UML**  
*Wang Yun Cheng, Wu Shan Ming, Ding Zhi Fang, Zhou Chun Hua and Chen Chu Xiang*
- MonBIS-17**     **The Research and Design Of 3D Web Guide System Based On WebGL**  
*Cui Peng*
- MonBIS-18**     **Multi-Fingerprints Joint Indoor Positioning Algorithm in WLAN Based on Kalman Filter and Database of Partitioned AP ID**  
*Zhang Hui-Qing, Xu Jian-Bo and Zhang Jing-Li*
- MonBIS-19**     **The Design and Implementation of a Guard Against Theft and Alarm System with Embedded Telephone Access and KEELOQ Technique**  
*Yang Xu and Li Shun*
- MonBIS-20**     **Design and Implementation of a Portable Intelligent Electrocardiograph**  
*Chen Nankai, Wang Yaonan and Lu Xiaoqing*
- MonBIS-21**     **Architectures for Train Condition Monitoring Network**  
*Tian Yin, Dong Hong-Hui, Jia Li-Min, Qin Yong and Xia Xian-Peng*
- MonBIS-22**     **A Survey on the Node Failure Handling of P2P Networks**  
*Ge Jia, Fu Xiao-Dong, Gao Tian-Yu, Chen Bin-Bin and Fan Hong-Bo*
- MonBIS-23**     **Distributed Malware Detection Based on Binary File Features in Cloud Computing Environment**  
*Xiaoguang Han, Jigang Sun, Wu Qu and Xuanxia Yao*



- MonBIS-24**      **Evolution of Planning and Scheduling for Steel Plants Based on Simulation-Based Optimization**  
*Bin Wang, Qing Liu, Bao Wang, Feiming Xie and Xinchun Lu*
- MonBIS-25**      **A QoS-Based Scheduling Algorithm for Instance-Intensive Workflows in Cloud Environment**  
*Huifang Li, Siyuan Ge and Lu Zhang*
- MonBIS-26**      **Dealing with Vehicle Routing Problem Under Multi-Objective Using Improved Genetic Algorithm**  
*Hui Liu and Yongduan Song*
- MonBIS-27**      **Research on ESNI Algorithm for Image Recognition of Boiler Water Level Gauge**  
*Liu Ziyu, Zhang Changsheng, Sun Bin, Qian Bin, Tian Haiyong and Zhang Hanping*
- MonBIS-28**      **Research and Application of Embedded Technology in Remote Network Monitoring System of Coal Mine**  
*Zhang Xiaodong, Tan Yuegang and Hou Yan*
- MonBIS-29**      **Intelligent System for Monitoring and Controlling of the Grain Condition Based on ARM9**  
*Qidi Zhao, Yanju Liu, Yang Yu, Jianhui Song and Guang Zhou*
- MonBIS-30**      **Calibration and Error Compensation of Magnetometer**  
*Zhiping Liu and Mingjing Zhu*
- MonBIS-31**      **Design of the Power Supply for the Pulsed Electric Current Sintering**  
*Jiangtao Shi, Lei Yao, Binbin Ni, Qi Chen, Jianfeng Xie and Xiaotao Han*
- MonBIS-32**      **Design of Particle Velocity Measurement System Based on Spatial Filtering Effect of Capacitive Sensor**  
*Shen Daoqing, Yang Gang, Wang Yutao and Guo Tingting*
- MonBIS-33**      **Modeling and Analysis of Permanent Magnetic Driver with Notched Conductive Plate**  
*Gao Qing-Zhong, Lin Sheng and Chen Fu*
- MonBIS-34**      **Integration Framework with Semantic Aspect of Heterogeneous System Based on Ontology and ESB**  
*Ke Shi, Feng Gao, Qing Xu and Guoyan Xu*
- MonBIS-35**      **Researches on Manufacturing Cloud Service Composition & Optimization Approach Supporting for Service Statistic Correlation**  
*Hui-Fang Li, Rui Jiang and Si-Yuan Ge*
- MonBIS-36**      **Study of Manufacturing Cloud Service Matching Algorithm Based on OWL-S**  
*Huifang Li, Lu Zhang and Rui Jiang*
- MonBIS-37**      **Context-Aware Workflow Modeling Approach Using OWL**  
*Pengfei Wang, Huifang Li and Baihai Zhang*
- MonBIS-38**      **The Balance Control of Two-Wheeled Robot Based on Bionic Learning Algorithm**  
*Ren Hongge, Wang Zhilong, Li Fujin and Huo Meijie*
- MonBIS-39**      **Forward Position Solution of 3-RPS in-Parallel Manipulator Based on Particle Swarm Optimization**  
*Zhang Hongli, Ren Tiantian and Pazilai Mahemuti*
- MonBIS-40**      **Analysis on Two Modeling Results of Modular Self-Reconfigurable Robots**  
*Wenting Yuan, Qiuxuan Wu and Bichuan Liu*
- MonBIS-41**      **Virtual Reality Simulator for the EAST Blanket Remote Handling System**  
*Su Xing and Lu Junguo*
- MonBIS-42**      **Embedded Control System Design and Experimental Analysis of Bionic Quadruped Robot**  
*Wang Peng, Yu Zhiwei, Zhou Cheng and Dai Zhendong*

- MonBIS-43**      **High Efficient Walking of Compass-Like Biped Robots with Foot Rotation**  
*Zidong Wang, Gangfeng Yan, Chong Tang and Zhiyun Lin*
- MonBIS-44**      **Coordinated Attitude Control for Tethered Space Robot**  
*Xiudong Xu, Panfeng Huang, Jun Ma and Bingzong Xu*
- MonBIS-45**      **Attitude Control of Coaxial Tri-Rotor UAV Based on Linear Extended State Observer**  
*Zhimin Chen, Zhihong Peng and Fan Zhang*
- MonBIS-46**      **Transition Flight Control Using Adaptive Neutral Network Dynamic Inversion for Canard Rotor/Wing UAV**  
*Wendong Gai, Jing Zhang, Liangsong Huang and Yuxia Li*
- MonBIS-47**      **Formation Control of Multiple Wheeled Mobile Robots via Leader-Follower Approach**  
*Tao Peng and Shan Li*
- MonBIS-48**      **Control Strategy Design for Smart Car Auto-Tracing with Visual**  
*Hui Zhang and Yongxin Liu*

<b>Session</b>	<b>MonC01: Complex Networks and Systems (III) (Chinese)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 13:20-15:20
<b>Venue</b>	Room01
<b>Chair</b>	Zhiwei Liu, <i>Wuhan Univ.</i>
<b>Co-Chair</b>	Dingjuan Wu, <i>South China University of Tech.</i>

- 13:20 – 13:40**      **MonC01-1**      **A Study on the Evolution Model of the Integration of Informatization and Industrialization**  
*Dingjuan Wu and Yanming Sun*
- 13:40 – 14:00**      **MonC01-2**      **Stabilizability of a Class of Linear Singularly Perturbed Systems via Output Feedback**  
*Hongwang Yu and Baoshang Zhang*
- 14:00 – 14:20**      **MonC01-3**      **Negative Imaginary Balancing for Mode Reduction of LTI Negative Imaginary Systems**  
*Kun Tu, Xin Du and Peibing Fan*
- 14:20 – 14:40**      **MonC01-4**      **Impulsive Synchronization for Uncertain Delayed Complex Dynamical Networks with Minimal Coupling Strength**  
*Wu-Hua Chen, Zhiyong Jiang, Jiacheng Zhong and Xiaomei Lu*
- 14:40 – 15:00**      **MonC01-5**      **Containment Control for Second-Order Multi-Agent Systems via Impulsive Algorithms Using Position-Only Measurements**  
*Zhou Hong, Wang ZhenHua, Li Wei, Feng Kuo and Liu Zhi-Wei*
- 15:00 – 15:20**      **MonC01-6**      **Projective Synchronization of Two Time-Delay Impulsive Coupling Complex Networks**  
*Zhou Hong, Li Wei, Qin Yu-Zhen, Feng Kuo and Liu Zhi-Wei*

<b>Session</b>	<b>MonC02: Identification and estimation(III) (Chinese)</b>	
<b>Date/Time</b>	Monday, 02 June 2014 / 13:20-15:20	
<b>Venue</b>	Room02	
<b>Chair</b>	Yingwei Zhang, <i>Northeastern Univ.</i>	
<b>Co-Chair</b>	Tianhong Pan, <i>Jiangsu Univ.</i>	
<b>13:20 – 13:40</b>	<b>MonC02-1</b>	<b>PLS-Based Fault-Relevant Reconstruction</b> <i>Zhang Yingwei and Tang Nan</i>
<b>13:40 – 14:00</b>	<b>MonC02-2</b>	<b>Fuzzy Identification Base on Cat Swarm Optimization Algorithm</b> <i>Sun Xu and Xu Xuesong</i>
<b>14:00 – 14:20</b>	<b>MonC02-3</b>	<b>Application of Nonlinear System Identification in Servo System Modeling</b> <i>Xi Lei, Yu Tao and Qiu Xuanyu</i>
<b>14:20 – 14:40</b>	<b>MonC02-4</b>	<b>Multi-Asset Allocation Based on Financial Market Microstructure Model</b> <i>Yemei Qin, Hui Peng, Yanhui Xi and Xiaohong Chen</i>
<b>14:40 – 15:00</b>	<b>MonC02-5</b>	<b>Study on Operation Energy Efficiency Model of Chiller Based on SVR</b> <i>Yan Jun-Wei, Zhou Yu and Zhou Xuan</i>
<b>15:00 – 15:20</b>	<b>MonC02-6</b>	<b>Statistical Model Identification for Cogeneration System Using Statistical Analysis</b> <i>Tianhong Pan, Yanqing Han and Dongliang Xu</i>

<b>Session</b>	<b>MonC03: Intelligent Systems (III) (Chinese)</b>	
<b>Date/Time</b>	Monday, 02 June 2014 / 13:20-15:20	
<b>Venue</b>	Room03	
<b>Chair</b>	Maopeng Ran, <i>Beihang Univ.</i>	
<b>Co-Chair</b>	JianHua Zhang, <i>East China Univ. of Scie. and Tech.</i>	
<b>13:20 – 13:40</b>	<b>MonC03-1</b>	<b>A Dynamic Search Space Particle Swarm Optimization Algorithm Based on Population Entropy</b> <i>Ran Maopeng, Wang Qing and Dong Chaoyang</i>
<b>13:40 – 14:00</b>	<b>MonC03-2</b>	<b>Application of Differential Evolution Optimization Based Gaussian Mixture Models to Speaker Recognition</b> <i>Zhou Hong and Zhang JianHua</i>
<b>14:00 – 14:20</b>	<b>MonC03-3</b>	<b>Path Tracking Controller Design for Intelligent Vehicle in Non-Single Straight Road Conditions</b> <i>Dehao Han, Lei Li, Xinchun Jia and Bo Yang</i>
<b>14:20 – 14:40</b>	<b>MonC03-4</b>	<b>Relevance Model Based Image Segmentation</b> <i>Zhu Sonhao, Liu Jiawei, Luo Qingqing and Hu Ronglin</i>
<b>14:40 – 15:00</b>	<b>MonC03-5</b>	<b>A Novel Approach for Image Classification</b> <i>Zhu Sonhao, Liu Jiawei and Hu Ronglin</i>
<b>15:00 – 15:20</b>	<b>MonC03-6</b>	<b>The Design and Simulation of Traffic Monitoring System Based on RFID</b> <i>Qiu Xinyun and Xiao Xiao</i>

<b>Session</b>	<b>MonC04: Stochastic Systems</b>	
<b>Date/Time</b>	Monday, 02 June 2014 / 13:20-15:20	
<b>Venue</b>	Room04	
<b>Chair</b>	Guojia Li, <i>Northeastern Univ.</i>	
<b>Co-Chair</b>	Na Duan, <i>Jiangsu Normal Univ.</i>	
<b>13:20 – 13:40</b>	<b>MonC04-1</b>	<b>Design and Simulation on RFID-Enabled Hybrid Pull/Push Control Strategy for Multi-Echelon Inventory of Supply Chain</b> <i>Li Guojia and Wang Dingwei</i>
<b>13:40 – 14:00</b>	<b>MonC04-2</b>	<b>Output-Feedback Control for More General Class of Stochastic Nonlinear Systems with SISS Inverse Dynamics</b> <i>Huifang Min and Na Duan</i>
<b>14:00 – 14:20</b>	<b>MonC04-3</b>	<b>An Approach of Bayesian Filtering for Stochastic Boolean Dynamic Systems</b> <i>Hongbin Ma, Dong Wang, Hongsheng Qi and Mengyin Fu</i>
<b>14:20 – 14:40</b>	<b>MonC04-4</b>	<b>Output-Feedback Stabilization for Large-Scale Stochastic Nonlinear Systems with Unknown Control Coefficients</b> <i>Fang Liu and Wuquan Li</i>
<b>14:40 – 15:00</b>	<b>MonC04-5</b>	<b>Stochastic Stability of Boolean Networks with Markov Jump</b> <i>Yunqi Zhao and Fei Long</i>
<b>15:00 – 15:20</b>	<b>MonC04-6</b>	<b>Stochastic Stability of Discrete-Time Markovian Jump Antilinear Systems</b> <i>Yang-Yang Qian, Ai-Guo Wu and Wanquan Liu</i>

<b>Session</b>	<b>MonC05: Decision-making Theory and Method (V) (Chinese)</b>	
<b>Date/Time</b>	Monday, 02 June 2014 / 13:20-15:20	
<b>Venue</b>	Room05	
<b>Chair</b>	Guangming Li, <i>National Univ. of Defense Tech.</i>	
<b>Co-Chair</b>	Honghua Wu, <i>Univ. of Jinan</i>	
<b>13:20 – 13:40</b>	<b>MonC05-1</b>	<b>Fuzzy Markov Chains Based on the Fuzzy Transition Probability</b> <i>Guangming Li and Baoxin Xiu</i>
<b>13:40 – 14:00</b>	<b>MonC05-2</b>	<b>The Relational Degree Model Based on Curvature and Application</b> <i>Wu Honghua, Mu Yong and Deng Lixia</i>
<b>14:00 – 14:20</b>	<b>MonC05-3</b>	<b>Air Combat Game Method Based on Multi-UAV Consensus Information</b> <i>Xia Chen and Yifei Wang</i>
<b>14:20 – 14:40</b>	<b>MonC05-4</b>	<b>Multi-Criteria Direct Clustering Method Based on Hesitant Fuzzy Sets</b> <i>Wang Xiao-Kang</i>
<b>14:40 – 15:00</b>	<b>MonC05-5</b>	<b>Linguistic Aggregation Operators under Interval Confidence Levels</b> <i>Xin-Fan Wang, Jian-Qiang Wang and Wu-E Yang</i>
<b>15:00 – 15:20</b>	<b>MonC05-6</b>	<b>Integrated Support Analysis of Military Aircraft Base on Fuzzy Theory</b> <i>Jianguo Cui, Cheng Wang, Yiwen Qi, Fan Cui and Liying Jiang</i>

<b>Session</b>	<b>MonC06: Signal Processing (II) (Chinese)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 13:20-15:20
<b>Venue</b>	Room06
<b>Chair</b>	Lei Xia, <i>Air Force Communications Officer School in Dalian</i>
<b>Co-Chair</b>	Jianhui Xi, <i>Shenyang Aerospace Univ.</i>

13:20 – 13:40	<b>MonC06-1</b>	<b>Non-Search Fractal Image Compression Algorithm Research</b> <i>Shiping Li and Lei Xia</i>
13:40 – 14:00	<b>MonC06-2</b>	<b>Research on Acoustic Emission Source Location Method Based on Cross-Correlation Analysis without Measuring Sonic Speed</b> <i>Jianhui Xi, Baofeng Xiao, Hongshan Ma and Qi Wang</i>
14:00 – 14:20	<b>MonC06-3</b>	<b>Research on Moving Target Detection Algorithm Based on MRA and Wavelet Threshold</b> <i>Jingjing Wang, Xiaodong Wang, Jiande Wu, Yugang Fan and Guoyong Huang</i>
14:20 – 14:40	<b>MonC06-4</b>	<b>Measurement Partition Algorithm Based on Density Analysis and Spectral Clustering for Multiple Extended Target Tracking</b> <i>Jinlong Yang, Fengmei Liu, Hongwei Ge and Yunhao Yuan</i>
14:40 – 15:00	<b>MonC06-5</b>	<b>Image Fusion Based on Constant Parameters Color Transfer in Linear Color Space</b> <i>Weixing Li, Yating Xiao, Feng Pan and Qi Gao</i>
15:00 – 15:20	<b>MonC06-6</b>	<b>Ear Recognition Based on Weighted Wavelet Transform and DCT</b> <i>Tian Ying, Zhang Debin and Zhang Baihuan</i>

<b>Session</b>	<b>MonC07: Control Applications (V) (Chinese)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 13:20-15:20
<b>Venue</b>	Room07
<b>Chair</b>	Ming Xu, <i>Beihai Univ.</i>
<b>Co-Chair</b>	Deying Gu, <i>Northeastern Univ. at Qinhuangdao</i>

13:20 – 13:40	<b>MonC07-1</b>	<b>Drag-Free Controller Design of the Ultra-Low-Orbital Flight</b> <i>Yan Wei, Ming Xu and Shanshan Du</i>
13:40 – 14:00	<b>MonC07-2</b>	<b>The Application of Fuzzy Predictive Control to Temperature Control of Electric Heating Oil Furnace</b> <i>Gu Deying and Ren Liangchao</i>
14:00 – 14:20	<b>MonC07-3</b>	<b>The Research of Control Algorithm and Topology for High Voltage Frequency Converter Based on Modular Multilevel Converter</b> <i>Zheng Zheng and Cui Can</i>
14:20 – 14:40	<b>MonC07-4</b>	<b>Software Implementation of Autonomous Orbital Control for Formation Flying</b> <i>Ming Xu, Shanshan Du and Kai Yu</i>
14:40 – 15:00	<b>MonC07-5</b>	<b>Traction/Braking Control Design for High Speed Trains Based on Force Estimation- An More Implementable Approach</b> <i>Wenhao Liao, Yongduan Song and Wenchuan Cai</i>

15:00 – 15:20      **MonC07-6**      **Generalized Predictive Control of Three-phase Electric Arc Furnace**  
*Guan Ping, Liu Xiaohe and Gao Yuezhaoh*

<b>Session</b>	<b>MonC08: Planning, Scheduling and Coordination (II) (Chinese)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 13:20-15:20
<b>Venue</b>	Room08
<b>Chair</b>	Huangang Wang, <i>Tsinghua Univ.</i>
<b>Co-Chair</b>	Xun Xiao, <i>Xi'an Jiaotong Univ.</i>

13:20 – 13:40	<b>MonC08-1</b>	<b>Cyclic Scheduling of Cluster Tools with Equipment Front-End Module and Multifunctional Load Locks</b> <i>Wang Hao, Wang Huan-Gang and Xu Wen-Li</i>
13:40 – 14:00	<b>MonC08-2</b>	<b>Aggregated Hydro Unit Based Model for Short-Term Hydro Generation Scheduling</b> <i>Qiaozhu Zhai, Xun Xiao and Xuan Li</i>
14:00 – 14:20	<b>MonC08-3</b>	<b>Fast Iterated Local Search Algorithm with High Order Neighborhood for No-Wait Flowshop Scheduling Problem</b> <i>Chuyang Wang</i>
14:20 – 14:40	<b>MonC08-4</b>	<b>Genetic Algorithm Based Scheduling Model of Continuous Casting Crystallizer Copper Electroplating</b> <i>Zhen Zhao, Haihong Wang and Naiping Hu</i>
14:40 – 15:00	<b>MonC08-5</b>	<b>Research on PN-Based Scheduling Stability for Reentrant Medical Testing System</b> <i>Dai Wanyi, Liu Weidong, Zhang Mei and Hu Yueming</i>
15:00 – 15:20	<b>MonC08-6</b>	<b>An MILP Approach for a Profit-Based Unit Commitment Problem with Emissions Penalty</b> <i>Ping Che and Gang Shi</i>

<b>Session</b>	<b>MonC09: Modeling, Control and Simulations of Biological Systems (II)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 13:20-15:20
<b>Venue</b>	Room09
<b>Chair</b>	Lingxiao Geng, <i>Beijing Univ. of Tech.</i>
<b>Co-Chair</b>	Chao Liu, <i>Northeastern Univ.</i>

13:20 – 13:40	<b>MonC09-1</b>	<b>Support Vector Machine Dynamic Modeling Method and Its Application in the Fermentation Process</b> <i>Lingxiao Geng and Xuejin Gao</i>
13:40 – 14:00	<b>MonC09-2</b>	<b>Global Stability Analysis and Optimal Taxation Control for a Harvested Prey Predator System with Prey Refuge</b> <i>Chao Liu and Jingmei Guo</i>

14:00 – 14:20	MonC09-3	<b>Rapid Compositional Analysis of Sawdust Using Sparse Method and Near Infrared Spectroscopy</b> <i>Wang Changyue, Yao Yan, Liu Huijun and Wang Jingjun</i>
14:20 – 14:40	MonC09-4	<b>Leaf Shape Polymorphism and its Relationship to Other Characteristics of Wild Soybean (<i>Glycine Soja</i>) in China</b> <i>Xuefei Yan, Wei Guo, Bei Sun, Ling Zhang, Xiaodong Liu, Hongkun Zhao, Min Gao and Jiandong Li</i>
14:40 – 15:00	MonC09-5	<b>Asymptotical Behavior of Parameter Estimation in Prediction Error Framework</b> <i>Caiyun Chen and Zhibin Yan</i>
15:00 – 15:20	MonC09-6	<b>Stage-Based Variable Sampling Period Modeling and On-Line Monitoring Strategy for Uneven-Length Batch Processes</b> <i>Yajun Wang, Zhizhong Mao, Mingxing Jia and Jing Bai</i>

<b>Session</b>	MonC10: Smart Grids (II) (Chinese)
<b>Date/Time</b>	Monday, 02 June 2014 / 13:20-15:20
<b>Venue</b>	Room10
<b>Chair</b>	Zhongjing Ma, <i>Beijing Institute of Tech.</i>
<b>Co-Chair</b>	Weisheng Xu, <i>Tongji Univ.</i>

13:20 – 13:40	MonC10-1	<b>Short-Time Voltage Variance Detection of Micro-Grid with Direct-Drive Wind Power Generation</b> <i>Zhou Jian-Ping and Zhu Jian-Ping</i>
13:40 – 14:00	MonC10-2	<b>An Adaptive Droop Voltage Control for DC Microgrid Systems</b> <i>Zhongjing Ma and Wencai Jiang</i>
14:00 – 14:20	MonC10-3	<b>Study of the Reactive Power Control Strategy for Single-Phase Grid-Connected Inverter</b> <i>Li Feng-Feng, Wu Qiu-Xuan, Wang Yue-Sheng, Xie Ying-Jiao, Cui Lei-Lei and Li-Yuhua</i>
14:20 – 14:40	MonC10-4	<b>A SPLL Technique under Unbalanced and Seriously Distorted Grid Voltage Conditions</b> <i>Cun-Lu Dang and Xiao-Gang Zhao</i>
14:40 – 15:00	MonC10-5	<b>Demand-Side Response of Smart Clients under Real-Time Pricing</b> <i>Wei-Hui Shao, Wei-Sheng Xu, Zhi-Yu Xu and Zheng-Yang Zeng</i>
15:00 – 15:20	MonC10-6	<b>Improved DV-Hop Localization Algorithm for Wireless Nodes in the Smart Grid</b> <i>Li Changyun, Zhao Peizhe and Zeng Yu</i>

<b>Session</b>	<b>MonC11: Motion Control (II) (Chinese)</b>	
<b>Date/Time</b>	Monday, 02 June 2014 / 13:20-15:20	
<b>Venue</b>	Room11	
<b>Chair</b>	Deying Gu, <i>Northeastern Univ.at Qinhuangdao</i>	
<b>Co-Chair</b>	Hua Chen, <i>Hohai Univ.Changzhou Campus</i>	
<b>13:20 – 13:40</b>	<b>MonC11-1</b>	<b>Speed Control of BLDCM Based on Compensated Fuzzy Neural Network</b> <i>Gu Deying and Zhang Jinquan</i>
<b>13:40 – 14:00</b>	<b>MonC11-2</b>	<b>Further Results of Semiglobal Saturated Stabilization for Nonholonomic Mobile Robots</b> <i>Hua Chen, Junfeng Chen, Yan Lei, Weixu Chen and Yawei Wang</i>
<b>14:40 – 15:00</b>	<b>MonC11-3</b>	<b>A Novel Control Method Based on Fuzzy Optimization Algorithm of Ship Lateral Motion Control</b> <i>Xiuyan Peng, Shuli Jia and Yakun Yu</i>
<b>15:00 – 15:20</b>	<b>MonC11-4</b>	<b>On Sliding Mode Control of Permanent Magnet Synchronous Motor</b> <i>Lin Weijie, Liu Dongliang, Wu Qiuxuan and Zhao Xiaodan</i>
<b>14:00 – 14:20</b>	<b>MonC11-5</b>	<b>Dynamic Modeling and Trajectory Tracking Control of Tunnel Boring Machine</b> <i>Huajiang Liu, Jingcheng Wang, Langwen Zhang, Ling Fei and Guanglei Zhao</i>
<b>14:20 – 14:40</b>	<b>MonC11-6</b>	<b>Control Method of Sensorless Brushless DC Motor Based on Neural Network</b> <i>Zhang Jinquan and Gu Deying</i>

<b>Session</b>	<b>MonCIS: Interactive Session</b>	
<b>Date/Time</b>	Monday, 02 June 2014 / 13:20-15:20	
<b>Venue</b>	Room12	
<b>MonCIS-1</b>	<b>Cooperative Search Algorithm for AUVs Based On Bio-Inspired Model</b> <i>Zhengwen Rui and Daqi Zhu</i>	
<b>MonCIS-2</b>	<b>Real-Time Rear of Vehicle Detection from a Moving Camera</b> <i>Qing Xu, Feng Gao, Ke Shi and Guoyan Xu</i>	
<b>MonCIS-3</b>	<b>A Method About State-Space Representation and Location Estimation by Computational Geometry</b> <i>Yi Zhang, Mengyin Fu and Meiling Wang</i>	
<b>MonCIS-4</b>	<b>Novel SLAM Algorithm for UGVs Based BBO-CEPF</b> <i>Kuifeng Su, Tianqing Chang and Lei Zhang</i>	
<b>MonCIS-5</b>	<b>Optimal Line Feature Generation from Low-Level Line Segments under RANSAC Framework</b> <i>Li Haifeng and Chen Rong</i>	
<b>MonCIS-6</b>	<b>A Collision Response Algorithm for 3D Virtual Reality Minimally Invasive Surgery Simulator</b> <i>Shao-Hua Mi, Zeng-Guang Hou, Fan Yang, Xiao-Liang Xie and Gui-Bin Bian</i>	



- MonCIS-7**      **Tree Structures Segmentation of Coronary Arteries using CURVES Method for Interventional Surgical Simulation**  
*Fan Yang, Zengguang Hou, Shaohua Mi, Guibin Bian and Xiaoliang Xie*
- MonCIS-8**      **Design of Upper Extremity Motor Function Mirror Rehabilitation System for Post-Stroke Patients Based on FES**  
*Zhao Xingang, An Lipeng and Ye Dan*
- MonCIS-9**      **Flexible Tip-Steerable Needle Control with Tissue Uncertainty**  
*Xingang Zhao, Lingguo Kong, Dan Ye, Yiwen Zhao and Zhenwei Wu*
- MonCIS-10**     **Gaze Tracking System for Teleoperation**  
*Mingxin Yu, Xiangzhou Wang, Yingzi Lin and Xiaoping Bai*
- MonCIS-11**     **DIVA Model Based on the Constant Delay Mechanism**  
*Feng Song and Zhang Shaobai*
- MonCIS-12**     **A Coordinated Control Strategy for Rotating Motion of the Hub-Spoke Tethered Space Robot Formation System**  
*Jun Ma, Panfeng Huang and Xiudong Xu*
- MonCIS-13**     **Underwater Acoustic Source Localization Method Based on TDOA with Particle Filtering**  
*Xu Yaosong, Wang Dandan and Fu Hua*
- MonCIS-14**     **Research of MCU-Based Robot Fish with Caudal Fin**  
*Yawei Qu, Songlin Chen and Jie Ma*
- MonCIS-15**     **Studies on the Collaborative Mission Planning of Multiple Space Robots Based on Multiple Agent Models**  
*Wu Zhihuan, Yin Hang, Yan Hui and Gao Yongming*
- MonCIS-16**     **Modeling and Control of Dynamic Network SIR Based on Community Structure**  
*Degang Xu and Xiyang Xu*
- MonCIS-17**     **Modeling of Dissolved Oxygen Concentration in Activated Sludge Process Based on Generalized Dynamic Fuzzy Neural Networks**  
*Yuge Xu, Yongtao Zhang, Meijin Lin and Fei Luo*
- MonCIS-18**     **Dynamics of a Stochastic Ratio-Dependent Leslie System**  
*Caifeng Fan, Zuoliang Xiong and Lifeng Wu*
- MonCIS-19**     **Enhancing the Effectiveness of Fungicides by Optimizing Their Combinations**  
*Xiang Wang, Jia Ma, Xiaowei Li, Xiaodong Zhao, Zongli Lin, Jie Chen and Zhifeng Shao*
- MonCIS-20**     **Evolution and Simulation Analysis on the Population of Han and Minority Groups in China**  
*Wang Xuezhong, Guo Bin, Ji Qingxiang, Zhang Jing, He Jinli and Zhang Hongli*
- MonCIS-21**     **A Multi-MEMS Sensors Information Fusion Algorithm**  
*Shi Jingwei, Zhou Yongjie, Zhang Haiyun, Zhang Tao, Wang Leigang, Ren Wei, Luan Mengkai and Liu Huifeng*
- MonCIS-22**     **Mechanical Analysis and Control of a Novel Nanopositioner**  
*Du Zhiyuan, Liu Pengbo, Yan Peng and Zhen Zhang*
- MonCIS-23**     **Optimal Parameter for Permanent Magnet Linear Servo System Using Load Disturbance Compensation**  
*Zhitao Wu, Jianying Xu and Liancheng Zhu*
- MonCIS-24**     **Research on the Space Vector Modulation Method of Three-Phase PWM Rectifier**  
*Shou-Tao Li, Ya-Bin Fu, Wei Jiang and Hai-Ying Qi*

- MonCIS-25**      **Design and Simulation of a Novel Wireless Passive SAW Soil Pressure Sensor**  
*Wang Xiaobo, Xie Liqiang, Li Juelong, Xing Jianchun and Kang Shuai*
- MonCIS-26**      **Simulation of Ground Rheostatic Braking in Mid-to-Low Speed Maglev Train**  
*Bang An, Sikai Liu and Shaoke Liu*
- MonCIS-27**      **Study on the Experiment of Ultracapacitor in HES for HEV**  
*Wang Qi, Sun Yu-Kun and Huang Yong-Hong*
- MonCIS-28**      **A New Control Scheme for 4WID Electric Vehicle Using DSP and CPLD**  
*Guohai Liu, Xiaochun Xu, Qian Chen and Ying Xie*
- MonCIS-29**      **Fault Diagnosis of Subway Auxiliary Inverter Based on EEMD and GABP**  
*Liang Cheng, Junwei Gao, Bin Zhang, Ziwen Leng and Yong Qin*
- MonCIS-30**      **Implementation of Path Planning Method of Intelligent Vehicle Based on MapX**  
*Jianmin Duan, Huiqin Ge and Junqin Yao*
- MonCIS-31**      **Estimation of Li-Ion Battery State of Charging and State of Healthy Based on Unscented Kalman Filtering**  
*Chen Ning, Hu Xiaojun, Gui Weihua and Zou Jiachi*
- MonCIS-32**      **A Study of the High-Speed Vehicle Real-Time Accurate Positioning Algorithm**  
*Yunlin Luo, Antao Ming, Huaikun Xiang and Lanqiu Cheng*
- MonCIS-33**      **A Traffic Flow Prediction Algorithm Based on Adaptive Particle Filter**  
*Mengfei Wen, Wentao Yu, Jun Peng and Xiaoyong Zhang*
- MonCIS-34**      **Ontology-Driven Tunnel Construction Information Retrieval and Extraction**  
*Hu Min and Huang Zhewen*
- MonCIS-35**      **Effective Voltage Flicker Detection Approach Based on a New Modified S-Transform Algorithm**  
*Huang Yong-Hong, Xu Jun-Jun, Shi Hui and Zhang Yun-Shuai*
- MonCIS-36**      **Selective Harmonic Compensation Scheme for Active Power Filters Using Generalized Predictive Control**  
*Geng Tao, Wang Menglu and Sun Jianyan*
- MonCIS-37**      **Game Theory Applied on Step-Priced Micro Grid**  
*Hong Huang and Xiaozhong Liao*
- MonCIS-38**      **Constant Pressure Water Supply System Based on Smart700 Configuration**  
*Chunyang Wang and Guoxu Ding*
- MonCIS-39**      **The Study of Frequency Optimal Control Method of Photovoltaic-Diesel Hybrid Isolated Microgrid System**  
*Mi Yang, Tian Yue, Zhang Han and Wang Limin*
- MonCIS-40**      **Control Strategy for Photovoltaic Grid-Connected Inverter with LCL Filter**  
*Zhang Guoyue, Yin Ke, Wu Yue and Qi Donglian*
- MonCIS-41**      **Study of Modeling and Intelligent Control on AGC System with Wind Power**  
*Hou Guolian, Zheng Xiaobin, Jiang Pengcheng and Zhang Jianhua*
- MonCIS-42**      **Improvement on the Grid Connected Control Strategy of Direct Drive Permanent Magnet Wind Power System**  
*Wu Lijuan, Wu Haotian and Li Xuesong*
- MonCIS-43**      **Control Strategy Research of Wayside Supercapacitor Energy Storage System for Urban Rail Transit**  
*Zongyu Gao, Jianjun Fang, Yinong Zhang, Di Sun, Lan Jiang and Xiaoling Yang*

- MonCIS-44**      **Quasi Proportional-Resonant Control of Single-Phase Photovoltaic Grid-Connected System with LCL Filter**  
*Yumei Liu, Rui Bai, Daoqian Wang, Wenge Ma and Zifeng Zhang*
- MonCIS-45**      **Proportional-Resonant Control Method of Three-Phase Grid-Connected Inverter**  
*Yumei Liu, Rui Bai, Daoqian Wang, Wenge Ma and Lin Wang*
- MonCIS-46**      **Research on Wet Air Oxidation Sludge Treatment System Using Non-Grid-Connected Wind Power**  
*Shi Jian Zhong and Gu Weidong*
- MonCIS-47**      **Active Damping Control Strategy for Grid-Connected Inverters by Splitting the Capacitor of LCL Filter**  
*Ling Lu, Ye Yongqiang, Zhuang Chao and Wang Jianhong*
- MonCIS-48**      **Output Feedback PD Power-Level Control for Modular High Temperature Gas-Cooled Reactors**  
*Zhe Dong*

<b>Session</b>	<b>MonD01: Complex Networks and Systems (IV) (Chinese)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 15:40-17:40
<b>Venue</b>	Room01
<b>Chair</b>	Shuohao Li, <i>National University of Defense Tech.</i>
<b>Co-Chair</b>	Chunxia Fan, <i>Nanjing University of Posts and Telecommunications</i>

- 15:40 – 16:00**      **MonD01-1**      **An Incremental Structure Learning Approach for Bayesian Network**  
*Shuohao Li, Jun Zhang, Boliang Sun and Jun Lei*
- 16:00 – 16:20**      **MonD01-2**      **Synchronization of Directed Complex Dynamical Networks Based on Distributed Event-Triggered Communications**  
*Liu Jie and Fan ChunXia*
- 16:20 – 16:40**      **MonD01-3**      **Power Grids Vulnerability Analysis Based on Combination of Degree and Betweenness**  
*Xuezhong Guan, Jinlong Liu, Zhe Gao, Di Yu and Miao Cai*
- 16:40 – 17:00**      **MonD01-4**      **The Maximum Power Control of Direct-Drive Wind Turbine**  
*Qin Bin, Jiang Xuexiang, Zhao Yulin and Tang Qing*
- 17:00 – 17:20**      **MonD01-5**      **Exponential Synchronization of Stochastic Complex Dynamical Networks with Impulsive Perturbations and Markovian Switching**  
*Anding Dai, Wuneng Zhou, Yichao Zheng and Shengchao Su*
- 17:20 – 17:40**      **MonD01-6**      **Adaptive Pinning Synchronization of Complex Networks Based on Output Feedback Control**  
*Wan Youhong and Xu Ji*

<b>Session</b>	<b>MonD02: Sensor Network Systems (III) (Chinese)</b>	
<b>Date/Time</b>	Monday, 02 June 2014 / 15:40-17:40	
<b>Venue</b>	Room02	
<b>Chair</b>	Guangming Zhu, <i>Zhejiang Univ.</i>	
<b>Co-Chair</b>	Yuan Hu, <i>East China Univ. of Scie. and Tech.</i>	

<b>15:40 – 16:00</b>	<b>MonD02-1</b>	<b>Congestion Control for Wireless Sensor Networks: A Survey</b> <i>Hu Yuan, Niu Yugang and Gan Fenghao</i>
<b>16:00 – 16:20</b>	<b>MonD02-2</b>	<b>A Novel WIFI Indoor Positioning Method Based on Genetic Algorithm and Twin Support Vector Regression</b> <i>Wenhua Le, Zhanbin Wang, Jingcheng Wang, Guanglei Zhao and Haoxuan Miao</i>
<b>16:20 – 16:40</b>	<b>MonD02-3</b>	<b>A Distributed Localization Scheme Based on Mobility Prediction for Underwater Wireless Sensor Networks</b> <i>Guangming Zhu, Rongxin Jiang, Li Xie and Yaowu Chen</i>
<b>16:40 – 17:00</b>	<b>MonD02-4</b>	<b>Energy-Saving Routing Protocol for Wireless Sensor Networks</b> <i>Yan Zeng and Lei Wang</i>
<b>17:00 – 17:20</b>	<b>MonD02-5</b>	<b>The Improvement of 3D Wireless Sensor Network Nodes Localization</b> <i>Li-Jun Peng and Wen-Wei Li</i>
<b>17:20 – 17:40</b>	<b>MonD02-6</b>	<b>Human Body Detection of Wireless Sensor Network Based on RSSI</b> <i>Haijing Wang, Wei Wang and Huanshui Zhang</i>

<b>Session</b>	<b>MonD03: Decision Supporting System and Production Planning and Scheduling (II) (Chinese)</b>	
<b>Date/Time</b>	Monday, 02 June 2014 / 15:40-17:40	
<b>Venue</b>	Room03	
<b>Chair</b>	Zhen-Yuan Liu, <i>Huazhong Univ. of Scie. and Tech.</i>	
<b>Co-Chair</b>	Yue Zhai, <i>Dalian Inst. of Scie. and Tech.</i>	

<b>15:40 – 16:00</b>	<b>MonD03-1</b>	<b>Project Scheduling with Time Window Constraints on Multi-Skill Resources</b> <i>Jing Tian, Zhenyuan Liu and Wenmin Yu</i>
<b>16:00 – 16:20</b>	<b>MonD03-2</b>	<b>Customer Point Collaboration-Based Multi-Trip Vehicle Scheduling Algorithm to Pickup and Delivery Service to Airport</b> <i>Xu Zhengzheng and Tang Jiafu</i>
<b>16:20 – 16:40</b>	<b>MonD03-3</b>	<b>An Approach with Decomposition on Time Windows for Resource-Constrained Project Scheduling</b> <i>Jing Tian, Zhenyuan Liu and Wenmin Yu</i>
<b>16:40 – 17:00</b>	<b>MonD03-4</b>	<b>Urban Emergency Intelligent Decision System in Rough Set on Two Universes</b> <i>Fuquan Sun, Xi Yu, Shixin Liu and Fuqiang Lu</i>
<b>17:00 – 17:20</b>	<b>MonD03-5</b>	<b>Research on Scheduling of Cluster Tools with Residency Time</b> <i>Lu Rui</i>

17:20 – 17:40      **MonD03-6**      **Efficient Weighted Association Rule Mining Using Lattice**  
*Zhai Yue, Wang Lijuan and Wang Ning*

<b>Session</b>	<b>MonD04: Nonlinear Systems (IV) (Chinese)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 15:40-17:40
<b>Venue</b>	Room04
<b>Chair</b>	Shuqian Zhu, <i>Shandong Univ.</i>
<b>Co-Chair</b>	Jun Dong, <i>Air Force Engineering Univ.</i>

15:40 – 16:00      **MonD04-1**      **Finite-Time Stability and Stabilization for a Class of Nonlinear Discrete-Time Singular Switched Systems**  
*You Xu, Shuqian Zhu and Shuping Ma*

16:00 – 16:20      **MonD04-2**      **Chaotic Synchronization Between Fractional-Order Financial System and Financial System of Integer Orders**  
*Dong Jun, Zhang Guangjun, Wang Shaoying and Li Qiongyao*

16:20 – 16:40      **MonD04-3**      **An Optimization Tuning Method of Nonlinear Non-Minimum Phase Systems and Its Application to Chemical Process**  
*Wancheng Wang and Xiaoxiao Jin*

16:40 – 17:00      **MonD04-4**      **Stability Analysis of Nonlinear Self-Excited Vibration in Cold Rolling Main Drive System**  
*Yang Xu, Li Qing, Peng Kaixiang, Tong Chaonan and Ding Dawei*

17:00 – 17:20      **MonD04-5**      **Research and Verification on Swing-Up Control Algorithm of Rotary Inverted Pendulum**  
*Haohua Qin, Wei Shao and Lantian Guo*

17:20 – 17:40      **MonD04-6**      **Global Sliding Mode Control Based on Observer for TCP Network**  
*Tao Zhong, Jing Yuanwei, Ye Chengyin and Jiang Nan*

<b>Session</b>	<b>MonD05: Networked Control Systems (III) (Chinese)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 15:40-17:40
<b>Venue</b>	Room05
<b>Chair</b>	Zhihong Guan, <i>Huazhong Univ. of Scie. and Tech.</i>
<b>Co-Chair</b>	Chen Peng, <i>Nanjing Normal Univ.</i>

15:40 – 16:00      **MonD05-1**      **On Event-Triggered Algorithm Design for Distributed Coordination of Multi-Agent Systems**  
*Shi Wang and Yuan Fan*

16:00 – 16:20      **MonD05-2**      **A Survey on Networked Control Systems Subject to Limited Network Resources**  
*Guo Cancan, Peng Chen, Zhang Jin and Peng Dacheng*

16:20 – 16:40	MonD05-3	<b>Optimal Tracking Performance of MIMO Networked Control Systems with Communication Constraints</b> <i>Chao-Yang Chen, Ming Chi, Zhi-Hong Guan, Xian-He Zhang and Xi-Sheng Zhan</i>
16:40 – 17:00	MonD05-4	<b>Optimal Linear Estimators for Systems with Multiple Random Measurement Delays and Packet Dropouts</b> <i>Yu Luyang, Ma Jing and Sun Shuli</i>
17:00 – 17:20	MonD05-5	<b>The Stability Analysis for a Class of Time-Delay Networked Control Systems</b> <i>Shenping Xiao, Lixin Guo and Liyan Wang</i>
17:20 – 17:40	MonD05-6	<b>Iterative Learning Control for Networked Stochastic Systems with Random Measurement Losses</b> <i>Dong Shen and Youqing Wang</i>

<b>Session</b>	<b>MonD06: Data Processing (II) (Chinese)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 15:40-17:40
<b>Venue</b>	Room06
<b>Chair</b>	You Li, <i>National Univ. of Defense Techn.</i>
<b>Co-Chair</b>	Jiaojiao Hua, <i>Shenyang Aerospace Univ.</i>

15:40 – 16:00	MonD06-1	<b>Shaft Orientation Error Compensation of Single-Axis Rotation INS in Ship Deformation Measurement System</b> <i>Li You, Wang Xing-Shu and Huang Zong-Sheng</i>
16:00 – 16:20	MonD06-2	<b>An Improved TANC Classification Algorithm Based on C4.5</b> <i>Zhao Xiao-Qiang and Yang Jia-Min</i>
16:20 – 16:40	MonD06-3	<b>An Improved IWO-FCM Data Mining Algorithm</b> <i>Zhao Xiaoqiang and Zhou Jinhu</i>
16:40 – 17:00	MonD06-4	<b>Life Trend Analysis of Aircraft Air Refrigerator Based on Neighborhood Rough Set and SVM</b> <i>Jianguo Cui, Jiaojiao Hua, Qingtian Wang, Xiao Cui, Haigang Liu and Liying Jiang</i>
17:00 – 17:20	MonD06-5	<b>Real Time Correction Methods of Hydrodynamic with <math>H_\infty</math> Filter</b> <i>Xiaoliang Feng, Xiaoliang Wang and Chenglin Wen</i>
17:20 – 17:40	MonD06-6	<b>Event Dynamic Transition Model in TCA Based on the Attribute Partial Diagram</b> <i>Yanyan Zhang, Xiaomin Wang and Jianbo Liu</i>

<b>Session</b>	<b>MonD07: Control Applications (VI) (Chinese)</b>	
<b>Date/Time</b>	Monday, 02 June 2014 / 15:40-17:40	
<b>Venue</b>	Room07	
<b>Chair</b>	Rongfu Zhou, <i>PanZhihua Univ.; Univ.of Electronic Scie.and Tech.</i>	
<b>Co-Chair</b>	Yongduan Song, <i>Beijing Jiaotong Univ.; Chongqing Univ.</i>	
<b>15:40 – 16:00</b>	<b>MonD07-1</b>	<b>The Control Application of Fuzzy PID in Combustion System</b> <i>Rongfu Zhou and Shulin Tian</i>
<b>16:00 – 16:20</b>	<b>MonD07-2</b>	<b>A Barrier Lyapunov Function (BLF) Based Approach for Antiskid Traction/Braking Control of High Speed Trains</b> <i>Wanqing Yang, Wenchuan Cai and Yongduan Song</i>
<b>16:20 – 16:40</b>	<b>MonD07-3</b>	<b>Microgrid Control Strategy Research</b> <i>Xiao Donglin and Wang Baohua</i>
<b>16:40 – 17:00</b>	<b>MonD07-4</b>	<b>Design and Implementation of the Moving Workpiece Sorting System Based on Lab VIEW</b> <i>Haitao Zhu, Jianming Xu, Defeng He, Kexin Xing and Zhanglei Chen</i>
<b>17:00 – 17:20</b>	<b>MonD07-5</b>	<b>Strapdown Scene Matching Location Approach for Aircraft with Attitude Variances</b> <i>Xiaogang Yang, Jianxiang Xi, Jianyong Wang and Shiwei Chen</i>
<b>17:20 – 17:40</b>	<b>MonD07-6</b>	<b>Railway Crossing Intelligent Safety Alarming System Design Based on PLC</b> <i>Zhang Zhi-Gang, Li Xue-Feng and Gan Yan-Li</i>

<b>Session</b>	<b>MonD08: Network-Based Systems (Chinese)</b>	
<b>Date/Time</b>	Monday, 02 June 2014 / 15:40-17:40	
<b>Venue</b>	Room08	
<b>Chair</b>	Jun Bao Kunming, <i>Univ. of Scie. and Tech. Engineering Research Center for Mineral Pipeline Transportation of Yunnan Province</i>	
<b>Co-Chair</b>	Caimei Huang, <i>Northeastern Univ. at Qinhuangdao</i>	
<b>15:40 – 16:00</b>	<b>MonD08-1</b>	<b>A Novel Method for Extracting Entity Data from Deep Web Precisely</b> <i>Yu Hai-Tao, Guo Jian-Yi, Yu Zheng-Tao, Xian Yan-Tuan and Yan Xin</i>
<b>16:00 – 16:20</b>	<b>MonD08-2</b>	<b>Design of Reverse Search Car System for Large Parking Lot Based on NFC Technology</b> <i>Huang Cai-Mei, He Zhi-Kun, Yang Yue-Feng, Wu Jian and Yang Ruo-Nan</i>
<b>16:20 – 16:40</b>	<b>MonD08-3</b>	<b>Design of Pipeline Displacement Detecting System Based on ZigBee Wireless Sensor Networks *</b> <i>Jun Bao, Jiande Wu, Xiaodong Wang, Yugang Fan and Guoyong Huang</i>
<b>16:40 – 17:00</b>	<b>MonD08-4</b>	<b>The Controller Design for Singular Networked Control System with Delay and Data Packet Dropout</b> <i>Liu Li-Li, Li Jing-Hao, Zhang Qing-Ling and Guo Mei-Shan</i>
<b>17:00 – 17:20</b>	<b>MonD08-5</b>	<b>Research and Analysis of Denial of Service Performance Based on Service-Oriented Architecture</b> <i>Zhao Yuntao, Meng Yizhou, Huang Yingchun, Dai Yue and Yang Jian</i>

17:20 – 17:40      **MonD08-6**      **Design of Remote Monitoring System for Heavy Metal Ions in Water**  
*Li Dexia, Zhai Wenjun, Lin Ke and Huang Ting Lei*

<b>Session</b>	<b>MonD09: Multi-Legged Robot Systems (Chinese)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 15:40-17:20
<b>Venue</b>	Room09
<b>Chair</b>	Sha Sheng, <i>Beijing Institute of Tech.</i>
<b>Co-Chair</b>	Yeqing Zhang, <i>Beijing Institute of Tech.</i>

15:40 – 16:00	<b>MonD09-1</b>	<b>Review and Analysis of Quadruped Robots with Articulated Spine</b> <i>Li Bin, Rong Xuewen and Li Yibin</i>
16:00 – 16:20	<b>MonD09-2</b>	<b>Central Pattern Generators with Biology Observation for the Locomotion Control of Hexapod Robots</b> <i>Dong Liu, Weihai Chen, Zhongcai Pei, Jianhua Wang and Zhifeng Li</i>
16:20 – 16:40	<b>MonD09-3</b>	<b>The Gait Planning Theory and Technology Research on the Wheel-Foot Multi-Joint Mobile Robot</b> <i>Zhang Yeqing, Luo Qingsheng, Wang Meiling, Wu Fan and Wu Di</i>
16:40 – 17:00	<b>MonD09-4</b>	<b>A Novel Biped Robot System Based on PMAC</b> <i>Kai Zhang, Bo Tu, Danpu Zhao and Xianqing Tai</i>
17:00 – 17:20	<b>MonD09-5</b>	<b>Design of Quadruped Robot Based on Coupling Driving Leg Mechanism and Optimization of Crawling Gait</b> <i>Sheng Sha and Pan Shaopeng</i>

<b>Session</b>	<b>MonD10: Energy Management Systems (Chinese)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 15:40-17:40
<b>Venue</b>	Room10
<b>Chair</b>	Xi Li, <i>Huazhong Univ. of Scie. and Tech.</i>
<b>Co-Chair</b>	Ningyun Lu, <i>Nanjing Univ. of Aeronautics &amp; Astronautics</i>

15:40 – 16:00	<b>MonD10-1</b>	<b>A Distributed Equalization Control Approach for Series Connected Battery Strings</b> <i>Rui Ling, Qiang Dan, Jie Zhang and Gang Chen</i>
16:00 – 16:20	<b>MonD10-2</b>	<b>Modeling and Analysis of SOFC Thermal-Electrical Management System with an Air Bypass Valve</b> <i>Jianhua Jiang and Xi Li</i>
16:20 – 16:40	<b>MonD10-3</b>	<b>Real-Time Estimation of Cruise Duration for Electric-Powered Micro-UAVs</b> <i>Liu Shengnan, Li Qiao, Lu Ningyun and Jiang Bin</i>
16:40 – 17:00	<b>MonD10-4</b>	<b>Regional Energy Management System Considering Demand Response</b> <i>Jun Liu, Ying-Xin Xie, Yin Liu, Feng-Yu Wang and Mao-Mao Wu</i>



17:00 – 17:20	MonD10-5	<b>Isolated Voltage Balancing in Super-Capacitor Energy Storage System</b> <i>Zuo Xuewen and Li Guo-Zheng</i>
17:20 – 17:40	MonD10-6	<b>An Auto Regression Compression Method for Industrial Real Time Data</b> <i>Tiecheng Pu and Jing Bai</i>

<b>Session</b>	<b>MonD11: Fuzzy Systems (Chinese)</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 15:40-17:40
<b>Venue</b>	Room11
<b>Chair</b>	Shengtao Li, <i>Shandong Normal Univ.</i>
<b>Co-Chair</b>	Guo Zhang, <i>Luoyang Institute of Scie. and Tech.</i>

15:40 – 16:00	MonD11-1	<b>State Feedback Predictive Control Based on T-S Fuzzy Model and State Estimator</b> <i>Liu Xiaomei, Li Shengtao, Zhang Kanjian, Dong Xiujuan and Jing Yuanwei</i>
16:00 – 16:20	MonD11-2	<b>Decentralized Control for a Class of Discrete-Time Fuzzy Bilinear Interconnected Large-Scale Systems</b> <i>Chen Wenqing, Zhang Guo and Zhang Yanhua</i>
16:20 – 16:40	MonD11-3	<b>Research on Lime Kiln Temperature System Based on Fuzzy PID Algorithm and Optimal Control</b> <i>Li Shaoming, Yang Peng, Yang Fan and Zhang Guoli</i>
16:40 – 17:00	MonD11-4	<b>Observer-Based Direct Adaptive Fuzzy Control for SISO Nonlinear Systems with Unknown Control Direction</b> <i>Wuxi Shi, Hongquan Wang, Furong Li and Xiangyu Wei</i>
17:00 – 17:20	MonD11-5	<b>PubMed State Lines Prediction Based on Interval Type-2 Fuzzy Set</b> <i>Tan Dan, Mo Hong and Wu Zhanlin</i>
17:20 – 17:40	MonD11-6	<b>A Reduction Algorithm of Fuzzy Time Series Model Based on a Kind of New Fuzzy Sets</b> <i>Chen Gang, Li Jinling and Wang Pengfei</i>

<b>Session</b>	<b>MonDIS: Interactive Session</b>
<b>Date/Time</b>	Monday, 02 June 2014 / 15:40-17:40
<b>Venue</b>	Room12

MonDIS-1	<b>Fusion Filtering Method Based on Pseudo-measurement Model Library for Multisensor Systems with Delay Measurements</b> <i>Ye Haihong, Wen Chenglin and Feng Xiaoliang</i>
MonDIS-2	<b>Mixture of Topic Model for Multi-document Summarization</b> <i>Liu Na, Li Ming-Xia, Lu Ying, Tang Xiao-Jun, Wang Hai-Wen and Xiao Peng</i>
MonDIS-3	<b>A Fractional-order Edge Detection Operator for Medical Image Structure Feature Extraction</b> <i>Dan Tian, Jingfei Wu and Yajie Yang</i>
MonDIS-4	<b>Survey of Dual Waveband Colorimetric Temperature Measurement Technology</b> <i>Ren Yan, Zhou Xiaomin and Fu Li</i>

- MonDIS-5**      **New Local Density Definition Based on Minimum Hyper Sphere for Outlier Mining Algorithm using in Industrial Databases**  
*Yiwei Yuan, Yanbin Zhang, Hui Cao and Rui Yao*
- MonDIS-6**      **Normal and Reverse Order Serial Models for Huge Image Database Based on Formal Concept Analysis**  
*Jianbo Liu, Xiaomin Wang, Yanyan Zhang and Jingfei Yang*
- MonDIS-7**      **Optimal Data Clustering by using Artificial Immune Network with Elitist Learning**  
*Li Zhonghua, Fang Xianshu and Zhou Jieying*
- MonDIS-8**      **Study on Cement Clinker Burning Energy Efficiency**  
*Yu Hongliang, Yao Chuanbo and Wang Xiaohong*
- MonDIS-9**      **Empirical Analysis on How to Alleviate the Financial Constraints of Chinese Small and Medium-sized Enterprises**  
*Dongmei Wang and Ruijie Kang*
- MonDIS-10**     **The Efficiency Assessment of Internal Accounting Controls: A New Perspective on the Financial Firms in China**  
*Degui Zhu and Liqiongyu Zhu*
- MonDIS-11**     **An Information Management System for FCC Units in Petrochemical Plants**  
*Xu Hongxia and Cheng Congli*
- MonDIS-12**     **Merging Several Business Process Variants**  
*Huifang Li, Harbi Mohamed El-Amine and Hachou Mohamed*
- MonDIS-13**     **Research of Stability Augmentation Hybrid Controller for Quadrotor UAV**  
*Qingji Gao, Fengfa Yue and Dandan Hu*
- MonDIS-14**     **Optimal Formation of Robots by the Continuous-Discrete PSO Algorithm in Three Dimensional Space**  
*Jun Liu, Hongbin Ma, Tianyun Shi and Ping Li*
- MonDIS-15**     **A Motor Learning Model Based on the Basal Ganglia in Operant Conditioning**  
*Yuanyuan Gao and Hongjun Song*
- MonDIS-16**     **Static Stability Analysis of a Joint Double-Tracked Robot**  
*Chengguo Zong, Shigong Jiang, Wenzeng Guo, Fuquan Dai and Xueshan Gao*
- MonDIS-17**     **LQR Controller Design for Two-wheeled Robot with a Movable Seat**  
*Wenzeng Guo, Xueshan Gao, Shigong Jiang, Chengguo Zong and Fuquan Dai*
- MonDIS-18**     **Real-time and Robust Odometry Estimation using Depth Camera for Indoor Micro Aerial Vehicle**  
*Zheng Fang and Lei Zhang*
- MonDIS-19**     **A Novel Access Point Selection Strategy for Indoor Location with Wi-Fi**  
*Haoxuan Miao, Zhanbin Wang, Jingcheng Wang, Langwen Zhang and Zhengfeng Liu*
- MonDIS-20**     **Object Localization and Tracking Based on Multiple Sensor Fusion in Intelligent Home**  
*Jianqin Yin, Guohui Tian and Guodong Li*
- MonDIS-21**     **A New Algorithm Detects Pilot Fatigue Based on Machine Vision**  
*Zhizhi Guo, Qianxiang Zhou, Zhongqi Liu, Yixuan Lv and Yun Tian*
- MonDIS-22**     **Improved Active Contour Model by Using the Honey Bee Mating Optimization**  
*Zhonghai Li, Xiang Man and Jianguo Cui*
- MonDIS-23**     **The Combination of SfM and Monocular SLAM**  
*Haoyin Zhou and Tao Zhang*
- MonDIS-24**     **Research on Asteroid Autonomous Navigation Based on Feature Matching Algorithm**  
*Li Jianguo, Tang Haibo, Ruan Xiaogang, Wei Ruoyan and Jia Zhen*

- MonDIS-25**     **Image Registration Research Based on SUSAN-SURF Algorithm**  
*Zhang Huiqing and Gao Lin*
- MonDIS-26**     **An UAV Navigation Aided with Computer Vision**  
*Zhang Chenghao, Chen JiaBin, Song ChunLei and Xu JianHua*
- MonDIS-27**     **Visual Servo with Template Update for a Deformable Moving Object**  
*Chi-Cheng Cheng and Cheng-Te Chou*
- MonDIS-28**     **Event-Triggered Control of Two-Dimensional Discrete-Time Systems in Fornasini-Marchesini (FM) Second Model**  
*Jianning Wang, Xin Du and Dawei Ding*
- MonDIS-29**     **Mining Status-Set Sequential Pattern Based on Frequent Itemset for Failure Prediction in a Temporal Database with Multiple Status Items Monitored**  
*Yingying Yuan, Yiyong Xiao, Jie Zhang and Yun Tian*
- MonDIS-30**     **Research on the Coupling Empirical of Knowledge Innovation, Talent Development and Technological Innovation**  
*Luo Gongli, Wang Yumei and Bian Weijun*
- MonDIS-31**     **Innovation Capacity and Economic Growth Study Based on Gray Correlation Analysis—Comparative Study of Shandong Province and Guangdong Province**  
*Ren Yan*
- MonDIS-32**     **How Does Knowledge Learning Mediate Between HR Flexibility and Product Innovation Performance**  
*Ling Xu*
- MonDIS-33**     **Malware Variant Detection Using Similarity Search Over Content Fingerprint**  
*Ban Xiaofang, Chen Li, Hu Weihua and Wu Qu*
- MonDIS-34**     **Study on the Algorithms for Shaping a Team’s Internal Complex Scientific Research Networks**  
*Limei Zhao*
- MonDIS-35**     **A Prediction Study on E-commerce Sales Based on Structure Time Series Model and Web Search Data**  
*Dai Wei, Peng Geng, Liu Ying and Li Shuaipeng*
- MonDIS-36**     **An Efficient Algorithm for Influence Maximization Under Linear Threshold Model**  
*Shengfu Zhou, Kun Yue, Qiyu Fang, Yunlei Zhu and Weiyi Liu*
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