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Technical Papers

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16:50-17:10	***SatB04-4***	***Fuzzy Approximation-Based Adaptive Command Filtered Control for Induction Motors*** 922 Xiaoling Wang Qingdao Univ. Yumei Ma Qingdao Univ. Jinpeng Yu Qingdao Univ. Lichao Liu Qingdao Univ. Wei Li Qingdao Univ.
17:10-17:30	***SatB04-5***	***Chaos Synchronization of Two Uncertain Chaotic Nonlinear Gyros Using Adaptive Backstepping Design*** 928 Loembe-Souamy Nanjing Univ. of Posts and Telecommunications Rostand. M. Davy Guoping Jiang Nanjing Univ. of Posts and Telecommunications Chunxia Fan Nanjing Univ. of Posts and Telecommunications Xinwei Wang Nanjing Univ. of Posts and Telecommunications Xu Wu Nanjing Univ. of Posts and Telecommunications

17:30-17:50	***SatB04-6***	***The Second-Order ZD, GD and Hybrid Systems Solving Nonlinear Equations Compared with Other Dynamics*** 933 Yunong Zhang Sun Yat-sen Univ. SYSU-CMU Shunde International Joint Research Institute Key Laboratory of Autonomous Systems and Networked Control Jinjin Wang Sun Yat-sen Univ. SYSU-CMU Shunde International Joint Research Institute Key Laboratory of Autonomous Systems and Networked Control Tianjian Qiao Sun Yat-sen Univ. SYSU-CMU Shunde International Joint Research Institute Key Laboratory of Autonomous Systems and Networked Control Zhengli Xiao Sun Yat-sen Univ. SYSU-CMU Shunde International Joint Research Institute Key Laboratory of Autonomous Systems and Networked Control Mingzhi Mao Sun Yat-sen Univ.

Session	***SatB05: Networked Control Systems (I)***
Date/Time	Saturday, 28 May 2016 / 15:50-17:50
Venue	Room 05
Chair	***Weizhou Su***, ***South China Univ. of Tech.***
Co-Chair	***Jianan Wang***, ***Beijing Inst. of Tech.***

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16:30-16:50	***SatB05-3***	***Robust Cooperative Tracking of Multiplep-Order Power Integrators*** 951 Junmin Peng CSR Zhuzhou Electric Locomotive CO, LTD Jianan Wang Beijing Inst. of Tech. Jiayuan Shan Beijing Inst. of Tech.
16:50-17:10	***SatB05-4***	***Event-triggered robust H8 control for networked control system with sensor faults*** 957 Xiaoyu He Univ. of Science and Tech. Beijing Liying Zhao Univ. of Science and Tech. Beijing Fei Ma Univ. of Science and Tech. Beijing Xue Cheng Univ. of Science and Tech. Beijing Jintao Meng Univ. of Science and Tech. Beijing
17:10-17:30	***SatB05-5***	***Asynchronous Control for Discrete Switched Systems over Network by using Sojourn Probability Method*** 962 Xia Zhao Nanjing College of Information Tech. Engang Tian Nanjing Normal Univ. Lei Wang Nanjing Normal Univ. Hongyan Li Nanjing College of Information Tech.

17:30-17:50	***SatB05-6***	***Event-Triggered H8 Filtering for Networked Takagi-Sugeno Fuzzy Systems Using Deviation Bounds of Normalized Membership Functions*** 968 Xiaobo Chi Shanxi Univ. Xinchun Jia Shanxi Univ.

Session	***SatB06: Hybrid Systems (I)***
Date/Time	Saturday, 28 May 2016 / 15:50-17:50
Venue	Room 06
Chair	***Xiaojie Su***, ***Chongqing Univ.***
Co-Chair	***Haichao Gao***, ***Henan Vocational Coll. of Chemical Tech.***

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16:10-16:30	***SatB06-2***	***Finite Time Estimation of a Linear System based on Sampledc Measurement through Impulsive Observer*** 978 Atif Qayyum National Univ. of Sciences and Tech. Universit degli Studi di Napoli Federico II Mohammad Bilal Malik National Univ. of Sciences and Tech. Gianmaria De Tommasi Universit degli Studi di Napoli Federico II Alfredo Pironti Universit degli Studi di Napoli Federico II
16:30-16:50	***SatB06-3***	***Positivity and stability analysis of positive discrete-time descriptor systems*** 982 Haichao Gao Henan Vocational Coll. of Chemical Tech. Wei Dong Henan Vocational Coll. of Chemical Tech. Linli Ma Hangzhou Dianzi Univ.
16:50-17:10	***SatB06-4***	***Bumpless Switching Control for Switched Systems with Sensor Failures Using Terminal Sliding Mode Method*** 988 Yiwen Qi Shenyang Aerospace Univ. Jiaming Hu Shenyang Aerospace Univ.
17:10-17:30	***SatB06-5***	***Integral Input-to-state-KL* -Stability for Hybrid Dynamical Systems*** 993 Bin Liu Hunan Univ. of Tech Dongnan Liu Hunan Univ. of Tech Zhong Wang Hunan Univ. of Tech
17:30-17:50	***SatB06-6***	***Modeling and Simulation of Cascade Reservoirs Flood Control System Based on Hybrid Stochastic Timed Petri Nets*** 997 Ruimin Cao Northeastern Univ. Fengli Wang Northeastern Univ. Lina Hao Northeastern Univ. Qiang Gao Northeastern Univ.

Session	***SatB07: Social Economy Systems (II)***
Date/Time	Saturday, 28 May 2016 / 15:50-17:50
Venue	Room 07
Chair	***Heyong Wang***, ***South China Univ. of Tech.***
Co-Chair	***Xin Tong***, ***Northeastern Univ.*** ***Central Univ. of Finance and Economics***

15:50-16:10 ***SatB07-1*** ***Research on the relationship between customer characteristics and categories in personal automotive business*** 1003
Heyong Wang, ***South China Univ. of Tech.***
Jingyuan Zhang, ***South China Univ. of Tech.***

16:10-16:30 ***SatB07-2*** ***Empirical study on Spatial Spillover of provincial carbon emissions and influencing factors in China*** 1009
Xin Tong, ***Northeastern Univ.***
Central Univ. of Finance and Economics
Lin Tong, ***Dalian Inst. of Science and Tech.***
Xuesen Li, ***Shenyang Polytechnic Coll.***

16:30-16:50 ***SatB07-3*** ***Analysis on the Interaction of Employment, Wages and Income Gap of Urban Residents in China*** 1014
Wei Wang, ***Harbin Univ. of Commerce***
Wenjia Cao, ***Harbin Univ. of Commerce***
Yiming Zhang, ***China Academy of Labor and Social Security***
Kai Yu, ***China Academy of Labor and Social Security***

16:50-17:10 ***SatB07-4*** ***Study on Explore China's New Employment Spaces Creation with the Social Society System Revolution through Science and Technology Innovation*** 1019
Minglei Ding, ***Chinese Academy of Science and Tech. for Development***
Baoming Chen, ***Chinese Academy of Science and Tech. for Development***
Yang Lv, ***State Grid Beijing Economic Research Inst.***

17:10-17:30 ***SatB07-5*** ***Environmental Protection Effectiveness of China's Taxation Policy*** 1025
Yu Zhang, ***Qingdao Univ. of Science and Tech.***

17:30-17:50 ***SatB07-6*** ***An Empirical Analysis on Carbon Emission and Economic Growth in Liaoning*** 1029
Xin Tong, ***Central Univ. of Finance and Economics***
Northeastern Univ.
Xuesen Li, ***Shenyang Polytechnic Coll.***
Lin Tong, ***Dalian Inst. of Science and Tech.***

Session	***SatB08: Delay Systems (I)***
Date/Time	Saturday, 28 May 2016 / 15:50-17:50
Venue	Room 08
Chair	***Ximing Sun***, ***Dalian Univ. of Tech.***
Co-Chair	***Bin Zhou***, ***Harbin Inst. of Tech.***

15:50-16:10 ***SatB08-1*** ***Integral input-to-state stability of switched delay systems composed of unstable subsystems*** 1035
Ximing Sun, ***Dalian Univ. of Tech.***
Xinmei Li, ***Dalian Univ. of Tech.***
Xudong Zhao, ***Dalian Univ. of Tech.***

16:10-16:30 ***SatB08-2*** ***Time-Varying Razumikhin and Krasovskii Stability Theorems for Time-Varying Delay Systems*** 1041
Bin Zhou, *Harbin Inst. of Tech.*
Alexey V. Egorov, *Saint-Petersburg State Univ.*

16:30-16:50 ***SatB08-3*** ***Further Results on Global Stabilization of the Double Integrator System by Delayed and Bounded Controls*** 1047
Xuefei Yang, *Harbin Inst. of Tech.*
Bin Zhou, *Harbin Inst. of Tech.*

16:50-17:10 ***SatB08-4*** ***Complete Stability for Constant-Coefficient Distributed Delay Systems: A Unified Frequency-Sweeping Approach*** 1053
Lu Zhang, *Northeastern Univ.*
Zhizhong Mao, *Northeastern Univ.*
Xuguang Li, *Northeastern Univ.*
Silviu-Iulian Niculescu CNRS-CentraleSupelec-Univ. Paris-Sud
Arben Çela, *Noisy-Le-Grand 93162*

17:10-17:30 ***SatB08-5*** ***Novel Delay Dependent Conditions for Non-Lyapunov Stability of Singular Time Delay Systems*** 1059
Ivan M. Buzurovic, *Harvard Univ.*
Sreten B. Stojanovic, *Univ. of Nis*
Dragutin Lj. Debeljkovic, *Univ. of Belgrade*
Darko M. Radojevic, *Univ. of Belgrade*

17:30-17:50 ***SatB08-6*** ***Bifurcation and control of a delayed reaction-diffusion rumor spreading model with medium mechanism*** 1065
Linhe Zhu, *Nanjing Univ. of Aeronautics and Astronautics*
Hongyong Zhao, *Nanjing Univ. of Aeronautics and Astronautics*

Session	***SatB09: Singular Systems (II) (Invited Session)***
Date/Time	Saturday, 28 May 2016 / 15:50-17:50
Venue	Room 09
Chair	***Qingling Zhang***, *Northeastern Univ.*
Co-Chair	***Huazhou Hou***, *Northeastern Univ.*

15:50-16:10 ***SatB09-1*** ***Stabilization of a Polynomial Chaotic System Based on T-S Fuzzy Model*** 1071
Changchun Sun, *Shenyang Jianzhu Univ.*
Baoyan Zhu, *Shenyang Jianzhu Univ.*
Qicheng Xu, *Shenyang Jianzhu Univ.*
Ying Ai, *Shenyang Jianzhu Univ.*

16:10-16:30 ***SatB09-2*** ***The Modelling and Control of a Singular Biological Economic System with a Species Migration and Environment Damage*** 1076
Yi Zhang, *Shenyang Univ. of Tech.*
Nanjing Univ. of Science and Tech.
Northeastern Univ.
Zhenghong Jin, *Shenyang Univ. of Tech.*

16:30-16:50 ***SatB09-3*** ***Permanent Analysis Of Predator-Prey System With The Holling IV Kind Functional Reaction And Stage Structure*** 1082
Yi Zhang, *Shenyang Univ. of Tech.*
Nanjing Univ. of Science and Tech.
Northeastern Univ.
Huiying Zhao, *Shenyang Univ. of Tech.*

16:50-17:10	***SatB09-4***	***Impulse Analysis for Nonlinear Singular System Via Differential Mean Value Theorem*** 1088 Qingling Zhang, ***Northeastern Univ.*** Huazhou Hou, ***Northeastern Univ.***
17:10-17:30	***SatB09-5***	***Static Output Feedback Sliding Mode Control for Stochastic Descriptor Systems*** 1093 Qingling Zhang, ***Northeastern Univ.*** Jinghao Li, ***Northeastern Univ.***
17:30-17:50	***SatB09-6***	***Local stability and Hopf bifurcation of a single-species singular system with delays*** 1098 Xin-You Meng, ***Northeastern Univ.*** ***Lanzhou Univ. of Tech.*** Qing-Ling Zhang, ***Northeastern Univ.***

Session	***SatB10: Economic and Management Decision Model (Invited Session)***
Date/Time	Saturday, 28 May 2016 / 15:50-17:50
Venue	Room 10
Chair	***Jianjun Gao***, ***Shanghai Univ. of Finance and Economics***
Co-Chair	***Yiqing Gao***, ***Shanghai Univ.***

15:50-16:10	***SatB10-1***	***Dynamic Revised Mean-Variance Policy in a Market without Riskless Asset*** 1103 Yiqing Gao, ***Shanghai Univ.*** Xiangyu Cui, ***Shanghai Univ. of Finance and Economics*** Yun Shi, ***Shanghai Univ.*** Liumeng Peng, ***Shanghai Univ.***
16:10-16:30	***SatB10-2***	***Dynamic mean-LPM portfolio optimization under the mean-reverting market*** 1108 Yiwei Niu, ***Shanghai Jiao Tong Univ.*** Jianjun Gao, ***Shanghai Univ. of Finance and Economics***
16:30-16:50	***SatB10-3***	***Extensions of Black-Litterman portfolio optimization model with downside risk measure*** 1114 Xinxin Jia, ***Shanghai Jiao Tong Univ.*** Jianjun Gao, ***Shanghai Univ. of Finance and Economics***
16:50-17:10	***SatB10-4***	***Convergence Analysis on Variable Sample Distributed Methods for Stochastic Nash Equilibrium*** 1120 Dali Zhang, ***Shanghai Jiao Tong Univ.***

Session	***SatB11: Intelligence System-Theory and Application (II) (Invited Session)***
Date/Time	Saturday, 28 May 2016 / 15:50-17:50
Venue	Room 11
Chair	***Ying Wei***, ***Northeastern Univ.***
Co-Chair	***Mingxiu Lin***, ***Northeastern Univ.***

15:50-16:10 ***SatB11-1*** ***Research and Application of Machine Vision in Intelligent Manufacturing*** 1126
Li Fu, ***Shenyang Aerospace Univ.***
Yuanhang Zhang, ***Shenyang Aerospace Univ.***
Quanjun Huang, ***Shenyang Aircraft Design&Research Inst.***
Xinyu Chen, ***Shenyang Aerospace Univ.***

16:10-16:30 ***SatB11-2*** ***Design of LED Marker for Camera Calibration of Rapid Deployment*** 1132
Mingxiu Lin, ***Northeastern Univ.***
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Bo Liu, ***Northeastern Univ.***
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Hua Yan, ***Shenyang Univ. of Tech.***
Peng Yu, ***Shenyang Univ. of Tech.***
Ying Gang, ***Zhou Shenyang Univ. of Tech.***

16:50-17:10 ***SatB11-4*** ***Gait Authentication Based on Partial Cyclic Rotation Metric*** 1143
Hui Xu, ***Shenyang Univ. of Tech.***
Lihua Gu, ***Shenyang Univ. of Tech.***
Shenyang Univ. of Chemical Tech.
Binbin Tu, ***Shenyang Univ. of Tech.***
Shenyang Univ.

17:10-17:30 ***SatB11-5*** ***The Propagation Characteristics of Oblique Incident Ultrasonic Waves in Damage Coating Steel*** 1149
Li-jian Yang, ***Shenyang Univ. of Tech.***
Ping Li, ***Shenyang Univ. of Tech.***
Song-wei Gao, ***Shenyang Univ. of Tech.***
Yan-hao Xing, ***Shenyang Univ. of Tech.***
Bin Liu, ***Shenyang Univ. of Tech.***

17:30-17:50 ***SatB11-6*** ***Nonlinear Inversion Algorithm of Geological Forecast in Induced Polarization Method*** 1154
Li Yao Shenyang, ***Univ. of Tech.***
Feng-chao Chen, ***Shenyang Univ. of Tech.***

Session	***SatB12: Process Automation***
Date/Time	Saturday, 28 May 2016 / 15:50-17:50
Venue	Room 12
Chair	***Yiguo Li***, ***Southeast Univ.***
Co-Chair	***Qingbin Wang***, ***Inst. of Automation, Chinese Acad. of Scie.***

15:50-16:10 ***SatB12-1*** ***Analysis on the Influence Factors of Fiber Tension in Fiber Placement*** 1159
Qingbin Wang, ***Inst. of Automation, Chinese Acad. of Scie.***
Wei Zou, ***Inst. of Automation, Chinese Acad. of Scie.***
De Xu, ***Inst. of Automation, Chinese Acad. of Scie.***
Fangfang Liu, ***Inst. of Automation, Chinese Acad. of Scie.***
Haipeng Li, ***Inst. of Automation, Chinese Acad. of Scie.***

16:10-16:30 ***SatB12-2*** ***Observer based model predictive control of a MGT-CCHP system*** 1165
Peizhi Liao, ***Southeast Univ.***
Shuanzhu Sun, ***Jiangsu Fangtian Electric Tech. Co. LTD***
Yiguo Li, ***Southeast Univ.***
Jiong Shen, ***Southeast Univ.***
Junli Zhang, ***Southeast Univ.***

16:30-16:50 ***SatB12-3*** ***A Mathematical Expression of an Index Function in FRIT*** 1171
Akira Inoue, ***Okayama Univ.***
Mingcong Deng, ***Tokyo Univ. of Agriculture and Tech.***
Tomohiro Henmi, ***National Inst. of Tech. Kagawa Coll.***

16:50-17:10 ***SatB12-4*** ***Theoretical study of rolling force during width control in edge rolling*** 1176
Yuanming Liu, ***Northeastern Univ.***
Dianhua Zhang, ***Northeastern Univ.***
Jie Sun, ***Northeastern Univ.***
Dewen Zhao, ***Northeastern Univ.***

17:10-17:30 ***SatB12-5*** ***The Improvement of Silicon-Controlled Trigger Circuit*** 1180
Fuyun Li, ***Univ. of Scie. and Tech. Liaoning***
Qingsi Zhang, ***Univ. of Scie. and Tech. Liaoning***

17:30-17:50 ***SatB12-6*** ***Host computer softwaredesign of MAA hydrolysis reaction based on WinCC configuration software*** 1185
Wei Zhang, ***Qingdao Univ. of Scie. and Tech.***
Zhenglian He, ***Qingdao Univ. of Scie. and Tech.***

Session	***SatB13: Optimal control and optimization (II)***
Date/Time	Saturday, 28 May 2016 / 15:50-17:50
Venue	Room 13
Chair	***Dongmei Wu***, ***Nanjing Univ. Of posts and telecommunications.***
Co-Chair	***Yuming Guo***, ***Northeastern Univ.***

15:50-16:10 ***SatB13-1*** ***A Hybrid Algorithm Based on BFA and PSO for Optimal Reactive Power Problem*** 1190
Shimei Que, ***Nanjing Univ. Of posts and telecommunications.***
Dongmei Wu, ***Nanjing Univ. Of posts and telecommunications.***

16:10-16:30	***SatB13-2***	***Hybrid Modeling Method for Predicting the Cooling Water Outlet Temperature in Plate Heat Exchanger*** 1194 Yuming Guo, *Northeastern Univ.* Fuli Wang, *Northeastern Univ.* *State Key Laboratory of Synthetical Automation for Process Industries* Mingxing Jia, *Northeastern Univ.* Dapeng Niu, *Northeastern Univ.*
16:30-16:50	***SatB13-3***	***A Novel Hybrid Optimization Algorithm Combined with BBO and PSO*** 1198 Gang Cheng, *Lanzhou Univ.* Chao Lv, *Lanzhou Univ.* Shi Yan, *Lanzhou Univ.* Li Xu, *Akita Prefectural Univ.*
16:50-17:10	***SatB13-4***	***Fast Design and Optimization of the Low Energy Lunar Escaping Trajectory*** 1203 Yue Liu, *DFH Satellite Co. Ltd.* Yingjing Qian, *Beijing Institute of Tech.* Wuxing Jing, *Harbin Institute of Tech.*
17:10-17:30	***SatB13-5***	***Many-to-Many Network Design of Fourth-Party Logistics with Delivery Time Considered*** 1209 Rui Li, *Liaoning Univ. of Tech.* Fuming Sun, *Liaoning Univ. of Tech.* Yujun Tong, *Liaoning Univ. of Tech.*
17:30-17:50	***SatB13-6***	***Multiple Set-points Tracking Control Based on Online ADP*** 1214 Kang Wang, *University of Scie. and Tech.* Xiaoli Li, *Beijing Univ. of Tech.*

Session	***SatB14: Smart grids (II)***
Date/Time	Saturday, 28 May 2016 / 15:50-17:50
Venue	Room 14
Chair	***Pengfei Guo***, *Inner Mongolia Univ. Hohhot*
Co-Chair	***Canzhi Gui***, *Zhejiang Univ.*

15:50-16:10	***SatB14-1***	***Short-Term Wind Power Prediction Based on Genetic Algorithm to Optimize RBF Neural Network*** 1220 Pengfei Guo, *Inner Mongolia Univ. Hohhot* Zhiyuan Qi, *Inner Mongolia Univ. Hohhot* Wei Huang, *Inner Mongolia Univ. Hohhot*
16:10-16:30	***SatB14-2***	***Dynamic Reconfiguration of Distribution Network with PV Generation Prediction Based On Credibility Theory*** 1224 Canzhi Gui, *Zhejiang Univ.* Zhejing Bao, *Zhejiang Univ.* Wenjun Yan, *Zhejiang Univ.*

16:30-16:50	***SatB14-3***	***Robust Mixed H2 /H 8 based Optimal Controller Design for ? Single-phase Grid-connected Converter*** 1230 Zhongwen Li Shenyang Inst. of Automation, Chinese Acad. of Sciences Univ. of Chinese Acad. of Sciences Chuanzhi Zang, ***Shenyang Inst. of Automation, Chinese Acad. of Sciences*** Peng Zeng, ***Shenyang Inst. of Automation, Chinese Acad. of Sciences*** Haibin Yu, ***Shenyang Inst. of Automation, Chinese Acad. of Sciences*** Hepeng Li, ***Shenyang Inst. of Automation, Chinese Acad. of Sciences*** Lin Gao, ***Yingkou Electric Power Supply Company*** Xiuwen Bai, ***Shenyang Inst. of Automation, Chinese Acad. of Sciences***
16:50-17:10	***SatB14-4***	***Topology and Control Study for a Novel STATCOM*** 1235 Xinwen Zhang, ***Beifang Univ. of Nationalities*** ***Xi'an Univ. of Tech.*** Xiangqian Tong, ***Xi'an Univ. of Tech.***
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Session	***SatBIS: Interactive Session***
Date/Time	Saturday, 28 May 2016 / 15:50-17:50
Venue	Room 15

SatBIS-01	***Phase Reduce False Distance Law and Ionosphere Residual Error Method Detect and Correct the Cycle Slip*** 1251 Zigeng Chen, ***Kunming Univ. of Science and Tech.*** Guoyong Huang, ***Kunming Univ. of Science and Tech.*** ***Engineering Research Center for Mineral Pipeline Transportation. YN***
SatBIS-02	***Information Sharing Method for RCRSS in Communication-limited Environment*** 1256 Xiang Gao, ***Nanjing Univ. of Posts and Telecommunications*** Dexiao Wu, ***Nanjing Univ. of Posts and Telecommunications*** Zhiwei Liang, ***Nanjing Univ. of Posts and Telecommunications***

SatBIS-03 ***Optimal Active Queue Management for Internet with Reduced-Order State-Observer*** 1260
Cunwu Han, *North China Univ. of Tech.*
Qi Diao, *North China Univ. of Tech.*
Shurui Chang, *North China Univ. of Tech.*
Song Bi, *North China Univ. of Tech.*
Lei Liu, *North China Univ. of Tech.*
Zhonghua Pang, *North China Univ. of Tech.*

SatBIS-04 ***Stability and Hopf bifurcation of an n-neuron annular neural network with time-delay*** 1264
Yan Wang, *Qingdao Univ. of Science and Tech.*
Zunshui Cheng, *Qingdao Univ. of Science and Tech.*
Southeast Univ.Tianshun Wang, Qingdao Univ. of Science and Tech.

SatBIS-05 ***The study on Dynamics of Functional Brain network: Based on Symbolic Dynamics*** 1269
Miao Wang, *Huazhong Univ. of Science and Tech.*
Image Processing and Intelligent Control Key Laboratory of Education Ministry of China
Yapeng Li, *Huazhong Univ. of Science and Tech.*
Image Processing and Intelligent Control Key Laboratory of Education Ministry of China
Xi Chen, *Huazhong Univ. of Science and Tech.*
Image Processing and Intelligent Control Key Laboratory of Education Ministry of China
Wei Li, *Huazhong Univ. of Science and Tech.*
Image Processing and Intelligent Control Key Laboratory of Education Ministry of China

SatBIS-06 ***Projective Synchronization and Identification of Two Different Markovian Jumping Complex Delayed Networks with Stochastic Perturbations*** 1274
Qian Xie, *Xi'an Jiaotong Univ.*
Gangquan Si, *Xi'an Jiaotong Univ.*
Yanbin Zhang, *Xi'an Jiaotong Univ.*
Ningning Yang, *Xi'an Univ. of Tech.*
Chaojun Wu, *Xi'an Polytechnic Univ.*

SatBIS-07 ***Complex Network's Topological Similarity Analysis Based on Spectral Density*** 1280
Haoqing Lan, *Beijing Inst. of Tech.*
Qi Gao, *Beijing Inst. of Tech.*
Zhe Deng, *Beijing Inst. of Tech.*
Feng Pan, *Beijing Inst. of Tech.*

SatBIS-08 ***Research on Modeling and Simulation of Guiding Re-weighting Mechanism Based on Guiding Amount*** 1286
Shihua Wang, *Guangdong Univ. of Petrochemical Tech.*
Jianmei Yang, *South China Univ. of Tech.*

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Yuanyuan Chen, *Information Center of Chongqing Univ. of Tech.*
Wang Yao, *State power grid maintenance branch of Chongqing electric power company*
Jianghua Luo, *Information Center of Chongqing Univ. of Posts and Telecommunications*

SatBIS-10 ***Node-importance identification in complex networks via neighbors average degree*** 1298
Jun Ai, *Univ. of Shanghai for Science and Tech.*
Linzhi Li, *Univ. of Shanghai for Science and Tech.*
Zhan Su, *Univ. of Shanghai for Science and Tech.*
Linhua Jiang, *Univ. of Shanghai for Science and Tech.*
Naixue Xiong, *Univ. of Shanghai for Science and Tech.*

SatBIS-11 ***Second-order Consensus of Multi-agent Systems with Nonlinear Dynamics and Time-varying Delays via Impulsive Control*** 1304
Kuo Feng, *Wuhan Univ.*
Yan Wang, *Wuhan Univ.*
Hong Zhou, *Wuhan Univ.*
Zhenhua Wang, *Wuhan Univ.*
Zhiwei Liu, *Wuhan Univ.*

SatBIS-12 ***Safe Operation Improvement of an Electrical Power System by Superconducting Fault Current Limiters*** 1310
Yi Chai, *Chongqing Univ.*
Congmei Jiang, *Chongqing Univ.*
Ke Zhang, *Chongqing Univ.*
Shuiqing Xu, *Chongqing Univ.*

SatBIS-13 ***Finite Time Rendezvous Control of Multi-agent Networks Preserving Topology Connectivity with Constrained Energy*** 1315
Di Yu, *Northeast Petroleum Univ.*
Wei Dong, *CNOOC Safety&Technology Services CO. LTD.*
Wenjun Yang, *Daqing oil field chemical group methanol factory*
Yansheng Zhang, *Northeast Petroleum Univ.*

SatBIS-14 ***Globally Controlled Consensus Criteria for Networked Multi-Agent Systems with Different Agent Dynamics and Time Delays*** 1320
Weisong Zhong, *Suqian Coll.*
Wenxiu Cao, *Suqian Coll.*

SatBIS-15 ***Adaptive Average Bipartite Consensus Control of High-order Multi-agent Systems on Coopetition Networks*** 1326
Yanzhi Wu, *Univ. of Electronic Science and Tech. of China*
Jiangping Hu, *Univ. of Electronic Science and Tech. of China*
Yuping Zhang, *Univ. of Electronic Science and Tech. of China*
Yong Zeng, *Univ. of Electronic Science and Tech. of China*

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Zhang Ren, *Beihang Univ.*

SatBIS-17 ***Consensus for Multi-agent Systems Based on Genetic algorithms*** 1338
Jianqiu Lyu, *Harbin Univ. of Science and Tech.*
Hongqi Wang, *Harbin Univ. of Science and Tech.*
Shujuan Chen, *Heilongjiang Univ.*

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Yong Wang, *Guangdong Univ. of Tech.*
Guangdong Univ. of Foreign Studies
Zhi Liu, *Guangdong Univ. of Tech.*
Yun Zhang, *Guangdong Univ. of Tech.*

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Xun Wang, *National Univ. of Defense Tech.*
Univ. of Hamburg
Daibing Zhang, *National Univ. of Defense Tech.*
Lincheng Shen, *National Univ. of Defense Tech.*
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Transportation of Yunnan Province
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Fenghui Dai, *Tianjin Univ. of Tech. and Education*
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Tianpeng Wang, *Tianjin Univ. of Tech. and Education*
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Hao Gao, ***Nanjing Univ. of Posts and Telecommunications***
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Date/Time	***Sunday, 29 May 2016 / 10:10-12:10***
Venue	***Room 01***
Chair	***Huijin Fan, Huazhong University of Scie. and Tech.***
Co-Chair	***Tantan Yang, Qingdao Univ.***

10:10-10:30 ***SunA01-1*** ***Low-cost Robust Adaptive Control of Nonlinear Uncertain Systems with Application to Helicopters*** 1640
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Shuyan Zhou, *Chongqing Univ.*
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Xuan Zhao, *Huazhong University of Scie. and Tech.*
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Session	***SunA02: Robust Control (I)***
Date/Time	Sunday, 29 May 2016 / 10:10-12:10
Venue	Room 02
Chair	***Xiushan Jiang***, *China University of Petroleum*
Co-Chair	***Na Wang Tianjin***, *Polytechnic Univ.* *Key Laboratory of Advanced Electrical Engineering and Energy Tech.*

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Date/Time	Sunday, 29 May 2016 / 10:10-12:10
Venue	Room 03
Chair	***Xiwang Dong***, ***Beihang Univ.***
Co-Chair	***Zhong Liu***, ***Northwestern Polytechnical Univ.***

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11:30-11:50	***SunA03-5***	***Second-order Consensus of Nonlinear Multi-agent Systems with Heterogeneous Topologies*** 1735 Li Gao, ***HangZhou DianZi Univ.*** Yinqiu Wang, ***HangZhou DianZi Univ.*** Jian Wang, ***HangZhou DianZi Univ.*** Fengmin Yu, ***HangZhou DianZi Univ.***
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Session	***SunA04: Nonlinear Systems (II)***
Date/Time	Sunday, 29 May 2016 / 10:10-12:10
Venue	Room 04
Chair	***Jiaming Tian***, ***Shandong Univ.***
Co-Chair	***Xianfu Zhang***, ***Shandong Univ.***

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Shuo Wang, ***Harbin Inst. of Tech.***
Zhibin Yan, ***Harbin Inst. of Tech.***

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Hongxia Yu, ***Northeastern Univ.*** ***Shenyang Engineering Inst.***
Yuanwei Jing, ***Northeastern Univ.***
Siying Zhang, ***Northeastern Univ.***

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Xianfu Zhang, ***Shandong Univ.***
Le Chang, ***Shandong Univ.***
Chenghui Zhang, ***Shandong Univ.***

11:10-11:30 ***SunA04-4*** ***Observer Design for One-Sided Lipschitz Nonlinear Continuous-Time Singular Systems with Unknown Input*** 1764
Jiaming Tian, ***Shandong Univ.***
Jimin Wang, ***Shandong Univ.***
Shuping Ma, ***Shandong Univ.***

11:30-11:50 ***SunA04-5*** ***Modeling and analysis of impedance for uncontrolled rectifier based nonlinear load*** 1770
Hongtao Shi, ***Beifang Univ. of Nationalities***
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Xuesheng Li, ***Beifang Univ. of Nationalities***
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11:50-12:10 ***SunA04-6*** ***A Constructive Self-balancing Controlled Lagrangian for Wheeled Inverted Pendulum*** 1776
Morteza Tayefi, ***Peking Univ.***
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Date/Time	Sunday, 29 May 2016 / 10:10-12:10
Venue	Room 05
Chair	***Qiuming Li***, *Northeastern Univ.*
Co-Chair	***Ying Zhang***, *Shanghai Maritime Univ.*

10:10-10:30 ***SunA05-1*** ***Non Steady Gas Source Localization Algorithm for Indoor Environment using WSN*** 1782
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Zhigang Liu, *Northeastern Univ.*
Jinkuan Wang, *Northeastern Univ.*

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Ruyong Dai, *Beijing Univ. of Tech.*
Xiaomin Xu, *Beijing Univ. of Tech.*

10:50-11:10 ***SunA05-3*** ***The Urban Road Dust Monitoring System Based on ZigBee*** 1793
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Yannan Gao, *Tianjin Univ. of Tech.*
Zhihong Zhang, *Tianjin Univ. of Tech.*
Tianjin Radio and TV Station

11:10-11:30 ***SunA05-4*** ***Topology Analysis Based on Linear Wireless Sensor Networks in Monitoring of High-speed Railways*** 1797
Xiaojun Lv, *China Academy of Railway Sciences*
Jian Li, *China Academy of Railway Sciences*
Tianyun Shi, *China Academy of Railway Sciences*
Xinchun Jia, *Shanxi Univ.*

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Xianfeng Yuan, *Shanghai Maritime Univ.*

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Dengfeng Chen, *Xian Univ. of Architecture and Tech.*
Qiqi Xue, *Xian Univ. of Architecture and Tech.*

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Date/Time	Sunday, 29 May 2016 / 10:10-12:10
Venue	Room 06
Chair	***Tao Li***, ***Shanghai Univ.***
Co-Chair	***Weihai Zhang***, ***Shandong Unive. of Science and Tech.***

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Date/Time	Sunday, 29 May 2016 / 10:10-12:10
Venue	Room 07
Chair	***Zhanshan Wang***, ***Northeastern Univ.***
Co-Chair	***Fei Lu***, ***Zhejiang Univ.of Tech.***

10:10-10:30 ***SunA07-1*** ***A New Criterion for Echo State Property of ESN with Feedback*** 1845
Xianshuang Yao, ***Northeastern Univ.***
Zhanshan Wang, ***Northeastern Univ.***
Shijie Yan, ***Northeastern Univ.***
Huaguang Zhang, ***Northeastern Univ.***

10:30-10:50 ***SunA07-2*** ***Facial Expression Recognition Based on Direction Basis Function Network*** 1849
Fei Lu, ***Zhejiang Univ.of Tech.***
Dewen Zhuang, ***Zhejiang Univ.of Tech.***
Luping Fang, ***Zhejiang Univ.of Tech.***
Shoujue Wang, ***Zhejiang Univ.of Tech.***
Inst. of Semiconductors, Chinese Academy of Science

10:50-11:10 ***SunA07-3*** ***Application of Alternating Deep Belief Network in Image Classification*** 1853
Tao Shi, ***North China Univ.of Science and Tech.***
Chunlei Zhang, ***North China Univ.of Science and Tech.***
Fujun Li, ***North China Univ.of Science and Tech.***
Weimin Liu, ***North China Univ.of Science and Tech.***
Meijie Huo, ***North China Univ.of Science and Tech.***

11:10-11:30 ***SunA07-4*** ***A New CMAC Neural Network Algorithm Based on Association Membership*** 1857
Shaochuan Xu, ***Northeastern Univ.***
Univ. of Science and Tech. Liaoning
Yuanwei Jing, ***Northeastern Univ.***

11:30-11:50 ***SunA07-5*** ***Stability Analysis for Delayed Recurrent Neural Networks Based on Delay-decomposition Approach*** 1861
Guangxia Xing, ***Nantong Univ.***
Yanbo Gao, ***Nantong Univ.***

11:50-12:10 ***SunA07-6*** ***Improvement of an Elman Neural Network Model for Once-through Boiler Unit and its Verification*** 1867
Yanna Xi, ***North China Electric Power Univ.***
Yinsong Wang, ***North China Electric Power Univ.***
Ke Li, ***North China Electric Power Univ.***

Session	***SunA08: Fault Diagnosis and Fault-Tolerant Control (I)***
Date/Time	Sunday, 29 May 2016 / 10:10-12:10
Venue	Room 08
Chair	***Naiyu Xue***, ***Beihang Univ.***
Co-Chair	***Ruiyun Qi***, ***Nanjing Univ. of Aeronautics and Astronautics***

10:10-10:30 ***SunA08-1*** ***An Improved Hybrid Kalman Filter Design for Aircraft Engine Based on a Velocity-Based LPV Framework*** 1873
Xiaofeng Liu, ***Beihang Univ.***
Naiyu Xue, ***Beihang Univ.***

10:30-10:50 ***SunA08-2*** ***Adaptive Sliding Mode Fault-tolerant Control for Hypersonic Aircraft Using RBF Neural Networks*** 1879
Rongyu Zhai, *Nanjing Univ. of Aeronautics and Astronautics*
Ruiyun Qi, *Nanjing Univ. of Aeronautics and Astronautics*
Bin Jiang, *Nanjing Univ. of Aeronautics and Astronautics*

10:50-11:10 ***SunA08-3*** ***Annealing Parameter Optimization Algorithm in Weibull Distribution of Reliability Life Prediction Analysis for Scraper Conveyor*** 1885
Xianmin Ma, *Xi'an Univ. of Science and Tech.*
Jie Yang, *Xi'an Univ. of Science and Tech.*
Yongqiang Zhang, *Xi'an Univ. of Science and Tech.*
Shenhua Ningxia Coal Group

11:10-11:30 ***SunA08-4*** ***A Data Driven Method for Quantitative Fault Diagnosability Evaluation*** 1890
Yongzhao Hua, *Beihang Univ.*
Qingdong Li, *Beihang Univ.*
Zhang Re, *Beihang Univ.*
Chengrui Liu, *Beijing Inst. of Control Engineering Science and Tech. on Space Intelligent Control Laboratory*

11:30-11:50 ***SunA08-5*** ***Variable Forgetting Factor Identification Algorithm for Fault Diagnosis of Wind Turbines*** 1895
Dinghui Wu, *Jiangnan Univ.*
Jin Song, *Jiangnan Univ.*
Yanxia Shen, *Jiangnan Univ.*

11:50-12:10 ***SunA08-6*** ***Dissipativity-based Fault Detection for Markov Jump Systems with Mode-dependent Time-varying Delays*** 1901
Bo Liu, *Beijing Inst. of Spacecraft Environment Engineering*
Tao Liao, *Beijing Inst. of Spacecraft Environment Engineering*

Session	***SunA09: Control Applications (II)***
Date/Time	Sunday, 29 May 2016 / 10:10-12:10
Venue	Room 09
Chair	***Yanan Wu***, *Beihang Univ.*
Co-Chair	***Haoping Wang***, *Nanjing Univ. of Science & Tech.*

10:10-10:30 ***SunA09-1*** ***Implement on APF using the Optimal Design of Digital Low Pass Filter*** 1908
Xifeng Guo, *Shenyang Jianzhu Univ.*
Sen Tan, *Northeastern Univ.*
Yunlu Li, *Northeastern Univ.*
Jinxiang Pian, *Shenyang Jianzhu Univ.*
Rui Zhang, *Shenyang Jianzhu Univ.*

10:30-10:50 ***SunA09-2*** ***Analysis of the Self-escape Trajectories for Manned Spacecraft*** 1914
Yong Shi, *Nanjing Univ. of Aeronautics and Astronautics*
Inst. of Manned Space System Engineering, CAST
Yanze Hou, *Inst. of Manned Space System Engineering, CAST*
Guang Zuo, *Inst. of Manned Space System Engineering, CAST*

10:50-11:10	***SunA09-3***	***Research on Coordination Control System in Greenhouse with Multi-Agent Technology*** 1918 Qi Li, ***Coll. of Information & Electrical Engineering, CAU*** Yifei Chen, ***Coll. of Information & Electrical Engineering, CAU*** ***Inst. of Sensors and Intelligent Control, CAU*** Manling Wu, ***Coll. of Information & Electrical Engineering, CAU*** Shangfeng Du, ***Coll. of Information & Electrical Engineering, CAU*** ***Inst. of Sensors and Intelligent Control, CAU*** Qiaoxue Dong, ***Coll. of Information & Electrical Engineering, CAU*** ***Inst. of Sensors and Intelligent Control, CAU*** Hongwei Yin, ***Coll. of Information & Electrical Engineering, CAU*** Dan Wang, ***Coll. of Information & Electrical Engineering, CAU***
11:10-11:30	***SunA09-4***	***Design of Vehicle Rescue Information Interaction System based on Embedded Technology*** 1922 Jiangchun Xu, ***Kunming Univ. of Science and Tech.*** Jie Ren, ***Kunming Univ. of Science and Tech.*** Xiangyang Ren, ***Kunming Univ. of Science and Tech.***
11:30-11:50	***SunA09-5***	***Event-triggered PCS based Control for Discrete Tracking: Trade-off between Network Bandwidth and Tracking Performance*** 1927 Chengcheng Song, ***Nanjing Univ. of Science & Tech.*** Haoping Wang, ***Nanjing Univ. of Science & Tech.*** Yang Tian, ***Nanjing Univ. of Science & Tech.***
11:50-12:10	***SunA09-6***	***On-line Trajectory Generation Based on Approximate Analytical Solutions*** 1933 Yanan Wu, ***Beihang Univ.*** Ran Zhang, ***Beihang Univ.*** Huifeng Li, ***Beihang Univ.***

Session	**SunA10: Signal Processing (I)**
Date/Time	Sunday, 29 May 2016 / 10:10-12:10
Venue	Room 10
Chair	**Qianru Jiang**, *Zhejiang Univ. of Tech.*
Co-Chair	**Jinhai Liu**, *Northeastern Univ.*

10:10-10:30	**SunA10-1**	**Action Temporal-Spatial Semantic Guide for 3D Human Pose Tracking** 1940 Jialin Yu, *South China Univ. of Tech.* Jifeng Sun, *South China Univ. of Tech.*
10:30-10:50	**SunA10-2**	**Robust Stochastic Gradient-based Adaptive Filtering Algorithms to Realize Compressive Sensing against Impulsive Interferences** 1946 Chen Ye, *Akita Prefectural Univ.* Guan Gui, *NUPT* Shinya Matsushita, *Akita Prefectural Univ.* Li Xu, *Akita Prefectural Univ.*
10:50-11:10	**SunA10-3**	**An ELM-based Classifier about MFL Inspection of Pipeline** 1952 Jinhai Liu, *Northeastern Univ.* Mingrui Fu, *Northeastern Univ.* Zhenning Wu, *Northeastern Univ.* Hanguang Su, *Northeastern Univ.*

11:10-11:30	**SunA10-4**	**Low-Rank Optimization Algorithm for Accelerated Dynamic MRI** 1956 Min Yang, *Nanjing Univ. of Posts and Telecommunications*
11:30-11:50	**SunA10-5**	**Block Recursive Least Squares Dictionary Learning Algorithm** 1961 Qianru Jiang, *Zhejiang Univ. of Tech.* Sheng Li, *Zhejiang Univ. of Tech.* Zeru Lu, *Zhejiang Univ. of Tech.* Binbin Sun, *Zhejiang Univ. of Tech.*
11:50-12:10	**SunA10-6**	**Super-pixel Based Single Image Haze Removal** 1965 Minmin Yang, *Northeastern Univ.* Zhengguo Li, *Inst. for Infocomm Research* Jianchang Liu, *Northeastern Univ.*

Session	**SunA11: Data Processing (I)**
Date/Time	Sunday, 29 May 2016 / 10:10-12:10
Venue	Room 11
Chair	**Jiuwen Cao**, *Hangzhou Dianzi Univ.*
Co-Chair	**Tianli Ma**, *Northwestern Polytechnical Univ.*

10:10-10:30	**SunA11-1**	**Label Information-based Weighted Regularized Sparsity Preserving Embedding for Face Recognition** 1970 Dongling Zhai, *Yangzhou Univ.* Zhenqun Wang, *Yangzhou Univ.* Xue Zhou, *Yangzhou Univ.* Chunlin Xu, *North Laser Tech. Group CO, LTD*
10:30-10:50	**SunA11-2**	**Excavation Equipments Classification based on Short-Time Frame Acoustic Energy Ratio** 1976 Wei Wang, *Hangzhou Dianzi Univ.* Jiuwen Cao, *Hangzhou Dianzi Univ.* Jianzhong Wang, *Hangzhou Dianzi Univ.* Ruirong Wang, *Hangzhou Dianzi Univ.*
10:50-11:10	**SunA11-3**	**Research on Improved Normalized Cut Spectral Clustering Algorithm** 1981 Quan Zheng, *Kunming Univ. of Science and Tech.* Zengli Liu, *Kunming Univ. of Science and Tech.*
11:10-11:30	**SunA11-4**	**Immune-based Abnormal Sample Identification for Spectral Quantitative Analysis** 1985 Fan Yu, *Xi'an Technological Univ.* Minghui Liu, *Xi'an Technological Univ.* Jixin Li, *Xi'an Technological Univ.* Hui Cao, *Xi'an Jiaotong Univ.*
11:30-11:50	**SunA11-5**	**A Novel Quantum Genetic Algorithm for Detection Sonar Image** 1991 Xingmei Wang, *Harbin Engineering Univ.* Shu Liu, *Harbin Engineering Univ.* Jianchuang Sun, *Harbin Engineering Univ.* Xinyu Wang, *Harbin Engineering Univ.*

11:50-12:10	**SunA11-6**	**A Track Initiation Algorithm Based on the Feature Weighted Denstream Clustering** 1997 Tianli Ma, *Northwestern Polytechnical Univ.* Xinmin Wang, *Northwestern Polytechnical Univ.* Ting Li, *Northwestern Polytechnical Univ.* Peng Cheng, *Northwestern Polytechnical Univ.*

Session	**SunA12: Instrumentation Systems**
Date/Time	Sunday, 29 May 2016 / 10:10-12:10
Venue	Room 12
Chair	**Xin Huo**, *Harbin Inst. of Tech.*
Co-Chair	**Qiangqiang Yin**, *Wuhan Univ. of Tech.*

10:10-10:30	***SunA12-1***	***A New Type of Intelligent Linear Electric Actuator and Vibration Detection*** 2003 Haiyan Shao, ***Univ. of Jinan*** Tao Wu, ***Ji'nan Huibang automatic control instrument Co., Ltd*** ***Univ. of Jinan*** Fangzhen Song, ***Univ. of Jinan***
10:30-10:50	***SunA12-2***	***The Application of FFT in Mobile Energy Efficiency Detection Terminal and the Implementation by DSP*** 2007 Qiangqiang Yin, ***Wuhan Univ. of Tech.*** Xianglian Xu, ***Wuhan Univ. of Tech.*** Gang Huang, ***Wuhan Univ. of Tech.*** Yuchen Wang, ***Wuhan Univ. of Tech.*** Kai Zhang, ***Wuhan Univ. of Tech.*** Qingning Wang, ***Wuhan Univ. of Tech.***
10:50-11:10	***SunA12-3***	***Vibration Analysis of Flex-gimbal System with High Spinning Velocity*** 2012 Zhaosheng Guo, ***Harbin Inst. of Tech.*** Xin Huo, ***Harbin Inst. of Tech.*** Xiaoming Zhang, ***Shanghai Inst. of Spaceflight Control Tech.*** Weishan Chen, ***Harbin Inst. of Tech.*** Yu Yao, ***Harbin Inst. of Tech.*** ***Harbin Engineering Univ.***
11:10-11:30	***SunA12-4***	***Research and Realization of Hand-held Mobile Bacon Detection Based on Neural Network Pattern Recognition*** 2018 Peiyuan Guo, ***Beijing Tech. and Business Univ.*** Man Bao, ***Beijing Tech. and Business Univ.***
11:30-11:50	***SunA12-5***	***The Design of Frequency Tracking Control Circuit in Induction Heating Power Supply based on SG3525*** 2022 Lijuan Wu, ***Electronics and Information Inst. of Science and Tech. Univ.*** Xuesong Li, ***Electronics and Information Inst. of Science and Tech. Univ.***
11:50-12:10	***SunA12-6***	***Spatial Filtering Velocimeter for Gas Solid Flow Based On Ring-Type Capacitance Sensor*** 2027 Gang Yang, ***Northeastern Univ.*** Daoqin Shen, ***Northeastern Univ.*** Yutao Wang, ***Northeastern Univ.***

Session	***SunA13: Intelligent Building Control and Management (I)***
Date/Time	Sunday, 29 May 2016 / 10:10-12:10
Venue	Room 13
Chair	***Yahui Wang***, ***Beijing Univ. of Civil Engineering and Architecture***
Co-Chair	***Qingshan Jia***, ***Tsinghua Univ.***

10:10-10:30 ***SunA13-1*** ***A Review of Occupant Behavior Models in Residential Building: Sensing, Modeling, and Prediction*** 2032
Chao Zhang, ***Tsinghua Univ.***
Qingshan Jia, ***Tsinghua Univ.***

10:30-10:50 ***SunA13-2*** ***Study on Centralized Photovoltaic Array Output Characteristics*** 2038
Yihao Tan, ***Beijing Univ. of Civil Engineering and Architecture***
Yahui Wang, ***Beijing Univ. of Civil Engineering and Architecture***
Junhong Zhang, ***Beijing Univ. of Civil Engineering and Architecture***

10:50-11:10 ***SunA13-3*** ***Classification of Building Electrical System Faults Based on Probabilistic Neural Networks*** 2043
Fucheng Zhang, ***Beijing Univ. of Civil Engineering and Architecture***
Yahui Wang, ***Beijing Univ. of Civil Engineering and Architecture***
Fangwen Chen, ***Beijing Univ. of Civil Engineering and Architecture***

11:10-11:30 ***SunA13-4*** ***Counting People by Using a Single Camera without Calibration*** 2048
Jianzhao Cao, ***Shenyang Jianzhu Univ.***
Liangliang Sun, ***Shenyang Jianzhu Univ.***
Manfred Gilbert Odoom, ***Shenyang Jianzhu Univ.***
Fangjun Luan, ***Shenyang Jianzhu Univ.***
Xiaoyu Song, ***Shenyang Jianzhu Univ.***

11:30-11:50 ***SunA13-5*** ***Study on Energy Consumption of Hotel Based on Extended STIRPAT Model*** 2052
Zongjie Du, ***Qingdao Univ. of Science & Tech.***
Shanliang Zhu, ***Qingdao Univ. of Science & Tech.***
Wei Shao, ***Qingdao Univ. of Science & Tech.***
Shulin Sui, ***Qingdao Univ. of Science & Tech.***

11:50-12:10 ***SunA13-6*** ***Key Technology and Application of Digital Community Based on Private Cloud*** 2057
Deyue Xing, ***Jianghan Univ.***
Jun Tao, ***Jianghan Univ.***
Rowan Univ.
Gui Wu, ***Jianghan Univ.***

Session	***SunA14: Modeling, Control and Simulations of Biological Systems***
Date/Time	Sunday, 29 May 2016 / 10:10-12:10
Venue	Room 14
Chair	***Chunyan Zhou***, *Xi'an Univ. of Tech.* *North Univ. of Nationalities*
Co-Chair	***Chao Liu***, *Northeastern Univ.* *State Key Lab. of Integrated Automation of Process Industry*

10:10-10:30 ***SunA14-1*** ***Modeling Human Hand Movement with Motor Signature Based on Velocity Segment*** 2061
Chao Zhai, *Univ. of Hong Kong*
Michael Z. Q. Chen, *Univ. of Hong Kong*

10:30-10:50 ***SunA14-2*** ***Objective Resolution Measurement in Single Particle Reconstructions Based on a New Spectral Signal-to-Noise Ratio Estimation*** 2067
Shuai Wang, *Shanghai Jiao Tong Univ.*
Biao Zhang, *Shanghai Jiao Tong Univ.*
Hongbin Shen, *Shanghai Jiao Tong Univ.*
Key Laboratory of System Control and Information Processing, Ministry of Education of China

10:50-11:10 ***SunA14-3*** ***Dynamical Analysis in an Exploited Two-Species Competition Model with Double Time Delays*** 2073
Na Lu, *Northeastern Univ.*
State Key Lab. of Integrated Automation of Process Industry
Chao Liu, *Northeastern Univ.*
State Key Lab. of Integrated Automation of Process Industry
Jingmei Guo, *Northeastern Univ.*

11:10-11:30 ***SunA14-4*** ***A Robust Cell Tracking Framework by Fusing Global and Local Optimization Algorithms*** 2079
Shu Meng, *Shanghai Jiao Tong Univ.*
Key Laboratory of System Control and Information Processing, Ministry of Education of China
Hongbin Shen, *Shanghai Jiao Tong Univ.*
Key Laboratory of System Control and Information Processing, Ministry of Education of China

11:30-11:50 ***SunA14-5*** ***SOM Neural Network for Clustering Plant and Plant Stress Based on Kinetic Imaging of Chlorophyll Fluorescence*** 2085
Chunyan Zhou, *Xi'an Univ. of Tech.*
North Univ. of Nationalities
Dengxin Hua, *Xi'an Univ. of Tech.*
Jing Le, *Xi'an Univ. of Tech.*
Jia Zhang, *Xi'an Univ. of Tech.*

11:50-12:10 ***SunA14-6*** ***Application of the Fuzzy C-means Clustering Algorithm in Plantar Pressure Analysis*** 2089
Jie Wang, *Univ. of Science and Tech. Beijing*
Hongshi Huang, *Peking Univ. Third Hospital*
Xiaoli Li, *Beijing Univ. of Tech.*
Univ. of Science and Tech. Beijing
Yingfang Ao, *Peking Univ. Third Hospital*

Session	***SunAIS: Interactive Session***
Date/Time	Sunday, 29 May 2016 / 10:10-12:10
Venue	Room 15

SunAIS-01 ***A Hesitant Fuzzy Linguistic Multi-Criteria Decision-Making Method Based On the Quasi-Arithmetic Mean And Harmonic Mean Operators*** 2095
Sumin Yu, ***Central South Univ.***
Jing Wang, ***Central South Univ.***
Central South Univ. of Forestry and Tech.
Zhangpeng Tian, ***Central South Univ.***
Huan Zhou, ***Central South Univ.***
Jianqiang Wang, ***Central South Univ.***

SunAIS-02 ***Noise Propagation and Equilibrium Multiplicity*** 2101
Qingduo Zeng, ***Beihang Univ.***
Duxue Huang, ***Beihang Univ.***
Xu Teng, ***Beihang Univ.***

SunAIS-03 ***Analysis on the Innovation Model Establishing and Innovation Ability of Agriculture Industry Cluster Network*** 2106
Yumei Wang, ***Qingdao Univ. of Science and Tech.***
Chen Zhang, ***Qingdao Univ. of Science and Tech.***
Linghui Wang, ***Qingdao Univ. of Science and Tech.***

SunAIS-04 ***Study on Comprehensive Assessment System of Software Reliability*** 2111
Xiaohui Wang, ***Henan Univ. of Chinese Medicine***
Yulong Xu, ***Henan Univ. of Chinese Medicine***

SunAIS-05 ***Design of the Optimization Scheme about the Vehicle logistics Loading*** 2115
Jie Zhang, ***Northeast Dianli Univ.***
Yang Lei, ***Northeast Dianli Univ.***
Yang Yu, ***Northeast Dianli Univ.***

SunAIS-07 ***A Method for Emergency Plan Evaluation under Group Decision Makers based on 2-Tuple Prioritized OWA Operator*** 2120
Lei Li, ***Zhe Jiang Normal Univ.***
Lijuan Zheng, ***Zhe Jiang Normal Univ.***
Ge Guo, ***China Academy of Railway Sciences***

SunAIS-08 ***A Method of Competition Result Evaluation Based on Social Choice Theory*** 2126
Wei Cai, ***Kunming Univ. of Science and Tech.***
Xiaodong Fu, ***Kunming Univ. of Science and Tech.***
Li Liu, ***Kunming Univ. of Science and Tech.***
Lijun Liu, ***Kunming Univ. of Science and Tech.***
Qingsong Huang, ***Kunming Univ. of Science and Tech.***

SunAIS-09 ***A Evaluation Method of Wind Farm Power Prediction Based on Principal Component Analysis and Entropy Methods*** 2132
Qi Yao, ***North China Electric Power Univ.***
North China Electric Power Research Institute Co., Ltd.
Yu Liu, ***North China Electric Power Research Institute Co., Ltd.***
State Grid Wind-Photovoltaic-Energy Storage Hybrid Power Generation Tech. Laboratory
Kai Bai, ***North China Electric Power Research Institute Co.***
Rongfu Sun, ***State Grid Jibei Electric Power Company***
Peng Song, ***North China Electric Power Research Institute Co., Ltd.***
Yuhui Wu, ***North China Electric Power Research Institute Co., Ltd.***

SunAIS-11 ***Research on LAP Routing Algorithm based on Traversal Tree*** 2137
Lan Shi, ***Northeastern Univ.***
Zihao Xie, ***Northeastern Univ.***
Jianhui Lv, ***Northeastern Univ.***

SunAIS-12 ***Allowable Missile Launch Zone Calculation for Multi-Fighter Coordination Attack under Network Targeting Environment*** 2143
Guanglei Meng, ***Shenyang Aerospace Univ.***
Haibing Pan, ***Shenyang Aerospace Univ.***
Xiao Liang, ***Shenyang Aerospace Univ.***
Feng Tian, ***Shenyang Aerospace Univ.***

SunAIS-13 ***Based on Two Element Neighborhood Search Quantum Genetic Algorithm to Solve the Vehicle Scheduling Problem*** 2147
Danyang Zheng, ***Kunming Univ. of Science and Tech.***
Jianlin Mao, ***Kunming Univ. of Science and Tech.***
Ning Guo, ***Kunming Univ. of Science and Tech.***
Changzheng Wang, ***Kunming Univ. of Science and Tech.***
Weixian Qu, ***Kunming Univ. of Science and Tech.***

SunAIS-14 ***Optimal Manufacturing/Remanufacturing Decisions Considering Capital Constraint*** 2151
Yongjian Wang, ***Southeast Univ.***
Weida Chen, ***Southeast Univ.***
Yanhua Zhang, ***Southeast Univ.***
Xizang Minzu Univ.

SunAIS-15 ***Application of Improved Ant Colony Optimization Algorithm on Traveling Salesman Problem*** 2156
Xue Yang, ***Univ. of Science and Tech. Liaoning***
Jiesheng Wang, ***Univ. of Science and Tech. Liaoning***

SunAIS-16 ***A New Hybrid Algorithm for Modeling of Flow Shop Scheduling: Bird Mating Optimizer based on GA*** 2161
Jing Zhang, ***Beifang Unive. of Nationalities***
Yuelin Gao, ***Beifang Unive. of Nationalities***
He Yang, ***Beifang Unive. of Nationalities***

SunAIS-17 ***Immune Genetic Algorithm for Multi-objective Flexible Job-shop Scheduling Problem*** 2167
Huizhi Ren, ***Shenyang Univ. of Tech.***
Han Xu, ***Shenyang Univ. of Tech.***
Shenshen Sun, ***Shenyang Univ.***

SunAIS-18 ***A Solution for Simultaneous Adaptive Ant Colony Algorithm to Memory Demand Vehicle Routing Problem with Pickups*** 2172
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Danyang Zheng, *Kunming univ. of science and tech.*
Hongdou Zhang, *Kunming univ. of science and tech.*
Jianlin Mao, *Kunming univ. of science and tech.*
Ning Guo, *Kunming univ. of science and tech.*

SunAIS-19 ***Single Machine Scheduling Problem with Cost Constraints based on Customer Driven and Its Noncooperative Game*** 2177
Yanping Zhou, *Qingdao Univ. of Science and Tech.*
Naiping Hu, *Qingdao Univ. of Science and Tech.*

SunAIS-20 ***An Improved Particle Swarm Optimization for Global Optimization*** 2181
Ping Yan, *Shenyang Aerospace Univ.*
Minghai Jiao, *Northeastern Univ.*

SunAIS-21 ***Research on Medical Scheduling Problem with Patient Limited Waiting and Variable Maintenance Duration*** 2186
Yanhui Yu, *Northeastern Univ.*
Yi Qi, *Northeastern Univ.*

SunAIS-22 ***Improved Simulated annealing Algorithm for Flexible job shop scheduling Problems*** 2191
Chenyang Gao, *Beifang Univ. of Nationalities*
Yuelin Gao, *Beifang Univ. of Nationalities*
Shanshan Lv, *Beifang Univ. of Nationalities*

SunAIS-23 ***A Flexible Job-shop Scheduling for Small Batch Customizing*** 2197
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Zhe Li, *Northeastern Univ.*
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Huawei Lu, *Northeastern Univ.*
Youchao Zhang, *Northeastern Univ.*

SunAIS-24 ***Input-to-state stability and stabilization of impulsive switched nonlinear systems*** 2202
Dan Liu, *Dalian Univ. of Tech.*
Jie Lian, *Dalian Univ. of Tech.*
Jun Wang, *Dalian Univ. of Tech.*
Dong Wang, *Dalian Univ. of Tech.*

SunAIS-25 ***Finite-Time Event-Triggered Control for Switched Systems with Time-Varying Delay*** 2208
Guoqi Ma, *Univ. of Science and Tech. of China*
Linlin Qin, *Univ. of Science and Tech. of China*
Xinghua Liu, *Univ. of Science and Tech. of China*
Chun Shi, *Univ. of Science and Tech. of China*
Gang Wu, *Univ. of Science and Tech. of China*

SunAIS-26 ***Mean Square Stabilization for Stochastic Switched Fuzzy Systems*** 2214
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Mian Zhang, *Shenyang Univ.*
Yanni Shi, *Shenyang Univ.*
Zhile Wei, *Shenyang Univ.*
Yingsong Jiang, *Shenyang Univ.*

SunAIS-27 ***Output Feedback H8 Control for a class of Switched Fuzzy Systems Based on LMI*** 2219
Le Zhang, ***Shenyang Univ.***
Yanan Li, ***Shenyang Univ.***
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Huanhuan Lü Shenyang Univ.

SunAIS-28 ***Switched Control for Nonlinear Discrete Singular Systems and Application*** 2225
Xiuhua Zhang, ***Northeastern Univ.***

SunAIS-29 ***Stability Analysis of Discrete-Time Switched Nonlinear Systems with Delays and Perturbations*** 2230
Xingwen Liu, ***Southwest Univ. for Nationalities of China***

SunAIS-30 ***Mixed 2/8 Model Predictive Control for a Class of Switched Singular Systems*** 2236
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SunAIS-31 ***Sampled-data observer design for a class of nonlinear systems with delayed measurements*** 2242
Daoyuan Zhang, ***China Three Gorges Univ.***
Yanjun Shen, ***China Three Gorges Univ.***
Jun Mei, ***Univ. of Pretoria***
Zhihong Guan, ***Huazhong Univ. of Science and Tech.***

SunAIS-32 ***Stabilization of Continuous-time Switched Positive Systems with State Constraints via a Mode-Dependent Switching Method*** 2247
Qingyu Su, ***Northeast Dianli Univ.***
Peipei Wang, ***Northeast Dianli Univ.***
Jian Li, ***Northeast Dianli Univ.***
Zhenhao Tang, ***Northeast Dianli Univ.***

SunAIS-33 ***Finite-Time Stabilization of a Class of Cascade Nonlinear Switched Systems with Time Delay*** 2252
Qingyu Su, ***Northeast Dianli Univ.***
Xiaolong Jia, ***Northeast Dianli Univ.***
Jian Li, ***Northeast Dianli Univ.***
Zhenhao Tang, ***Northeast Dianli Univ.***

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Xiang Ren, ***North China Univ. of Tech.***
Jie Zhang, ***North China Univ. of Tech.***
Jingjing Li, ***North China Univ. of Tech.***

SunAIS-35 ***Consensus Algorithm of Multi-agents without Velocity Measurement in a Non-rectangular Bounded Space*** 2263
Dezheng Zhu, ***The 28th Research Institute of China Electronics Tech. Group Corporation***

SunAIS-36 ***Configuration Design Method of Switched Thermal Power Superheated Steam Temperature Control System*** 2268
Lei Yu, ***Soochow Univ.***
Guangjun Dai, ***Soochow Univ.***

SunAIS-37 ***Analysis of a Stochastic Epidemic System with Quarantine and perturbation*** 2273
Yuguang Wang, ***Beijing Inst. of Tech.***
Yanan Li, ***Henan Polytechnic Univ.***
Ruifa Hu, ***Beijing Inst. of Tech.***

SunAIS-38 ***Boundary Stabilization and H 8 Control for Stochastic Reaction-Diffusion Systems*** 2279
Peiliang Pan, *Rizhao Highway Administration*
Jian Wang, *Harbin Inst. of Tech. at Weihai*
Kaining Wu, *Harbin Inst. of Tech. at Weihai*

SunAIS-39 ***Finite-Time Stabilization for a Class of Stochastic Nonlinear Systems with Stochastic Inverse Dynamics*** 2284
Jianchao Li, *Southeast Univ.*
Guihua Zhao, *Southeast Univ.*
Jiangsu Univ. of Science and Tech.
Shujun Liu, *Sichuan Univ.*

SunAIS-40 ***Analysis of Parallel System Reliability Model with Two Dissimilar Units Based on Phase-type Distribution*** 2290
Dongliang Yin, *Naval Univ. of Engineering*
Fang Li, *Naval Univ. of Engineering*
Tong Chen, *Naval Univ. of Engineering*

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SunAIS-42 ***An Improved Routing Mechanism based on Trust Value Evaluation Lingling Zhang Beihua Univ.*** 2300
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Zuxin Li, *Huzhou Univ.*
Jinhe Wang, *Huzhou Univ.*
Baoqi Yu, *Liaoning inst. of Science and Tech.*

SunAIS-54 ***Weighted Group-Consensus of Multi-Agent Systems with Bipartite Topologies*** 2368
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SunAIS-55 ***Energy-Efficent Cooperative Spectrum Sensing for Cognitive Sensor Networks with Energy Harvesting*** 2373
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Xiaohui Wang, *Henan Univ. of Traditional Chinese Medicine*
Han Zhang, *Peking Univ.*
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Ying Tian, *Bohai Univ.*
Xue Lin, *Bohai Univ.*
Guohong You, *Bohai Univ.*
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Zhen Feng, *Shanghai Univ.*
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Yunlong Wang, *Huaiyin Inst. of Tech.*
Xiaohui Wang, *Huaiyin Inst. of Tech.*
Qing Lu, *Huaiyin Inst. of Tech.*
Yongfeng Ju, *Huaiyin Inst. of Tech.*

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Caixia Zhang, *Foshan Univ.*
Yong Chen, *Foshan Univ.*
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Zhenhong Shang, ***Kunming Univ. of Science and Tech.***
Jingsong Li, ***Kunming Univ. of Science and Tech.***

SunAIS-67 ***The choice of manufacturer's online customization channel under different pricing models*** 2435
Yongmei Liu, ***Central South Univ.***
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SunAIS-68 ***The Bullwhip Effect in Marketing E-business System and Its Control Strategy*** 2441
Zhiyong Zhang, ***Northeastern Univ.***
Xintian Zhuang, ***Northeastern Univ.***
Xiaoqing Li, ***Northeastern Univ.***

Session	***SunB01: Adaptive Control (III)***
Date/Time	Sunday, 29 May 2016 / 13:30-15:30
Venue	Room 01
Chair	***Yanli Du***, ***Nanjing University of Aeronautics and Astronautics***
Co-Chair	***Zhihao Cai***, ***Beihang Univ.***

13:30-13:50 ***SunB01-1*** ***Two tracking control method to improve solar cell photoelectric efficiency*** 2446
Xiuxia Zhang, ***HeFei University of Tech.***
Beifang University of nationalities
Rong Fan, ***HeFei University of Tech.***
Beifang University of nationalities
Xiaocong Yang, ***Beifang University of nationalities***
Guannan Du, ***Beifang University of nationalities***
Shuyi Wei, ***Beifang University of nationalities***
Lingchun Zhang, ***Beifang University of nationalitie***
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13:50-14:10 ***SunB01-2*** ***A Fuzzy Self-Tuning PD Controller for a Quadrotor: Design and Implementation*** 2448
Yanjun Lu, ***Shenyang Aerospace Univ.***
Tianqi Xu, ***Shenyang Aerospace Univ.***
Xiaodong Zhang, ***Shenyang Aerospace Univ.***

14:10-14:30 ***SunB01-3*** ***Chaotic Synchronization and Parameter Identification of Fractional-order Unified Systems*** 2454
Shaoying Wang, ***Yellow River Communications Inst.***
Qiongyao Li, ***Nanjing-Shanghai Speedway Limited-liability Company***
Jun Dong, ***The first Aeronautical Institute of Air Force***
Aiguo Wu, ***Unit No.94235 of PLA***

14:30-14:50 ***SunB01-4 Self-organizing Functional-Link-Network-based Control for Hypersonic Glide Vehicles*** 2460
Yanli Du, ***Nanjing University of Aeronautics and Astronautics***
Dongyang Sun, ***Nanjing University of Aeronautics and Astronautics***
Xuefei Leng, ***Nanjing University of Aeronautics and Astronautics***
Jian Fu, ***Nanjing University of Tech.***

14:50-15:10 ***SunB01-5 Modeling and Fuzzy Sliding Decoupling Control of Looper Multivariable System*** 2467
Boqun Li, ***University of Scie. and Tech.***
Xuan Fan, ***University of Scie. and Tech.***
Daqing Zhang, ***University of Scie. and Tech.***
Guanjie Jiang, ***Northeastern Univ.***

15:10-15:30 ***SunB01-6 An L1 Adaptive Roll and Pitch Angle Controller for Quadrotors*** 2473
Ningjun Liu, ***Beihang Univ.***
Zhihao Cai, ***Beihang Univ.***
Yingxun Wang, ***Beihang Univ.***

Session	***SunB02: Robust Control (II)***
Date/Time	Sunday, 29 May 2016 / 13:30-15:30
Venue	Room 02
Chair	***Shuping Ma***, ***Shandong Univ.***
Co-Chair	***Hao Liu***, ***Beihang Univ.***

13:30-13:50 ***SunB02-1 Robust H 8 Control of Uncertain Nonlinear Continuous-Time Singular Semi-Markov Jump Systems*** 2479
Jimin Wang, ***Shandong Univ.***
Shuping Ma, ***Shandong Univ.***
Zhumahan Kulan, ***Changji Coll.***

13:50-14:10 ***SunB02-2 Robust stabilization of positive switched systems with polytopic uncertainty*** 2485
Linli Ma, ***Hangzhou Dianzi Univ.***
Shaosheng Zhou, ***Hangzhou Dianzi Univ.***

14:10-14:30 ***SunB02-3 Robust Control for Hypersonic Vehicles with Multiple Uncertainties and Time-varying Delays*** 2491
Kuo Li, ***Beihang Univ.***
Zhaoying Li, ***Beihang Univ.***
Hao Liu, ***Beihang Univ.***

14:30-14:50 ***SunB02-4 Robust Control for Spacecraft Rendezvous System with Thrust Saturation*** 2497
Qian Wang, ***Hangzhou Dianzi Univ.***
Anke Xue, ***Hangzhou Dianzi Univ.***

14:50-15:10 ***SunB02-5 Adaptive Attitude Controller Design with Bounded Tracking Error*** 2503
Chunwu Yin
Mingshan Hou
Mingxiang Li

15:10-15:30 ***SunB02-6 Sliding-mode Dynamic Surface Control for MDF Continuous Hot pressing Hydraulic System*** 2509
Liangkuan Zhu, ***Northeast Forestry Univ.***
Zibo Wang, ***Northeast Forestry Univ.***
Yaqiu Liu, ***Northeast Forestry Univ.***
Wenlong Song, ***Northeast Forestry Univ.***

Session	***SunB03: Co-operative Control (II)***
Date/Time	Sunday, 29 May 2016 / 13:30-15:30
Venue	Room 03
Chair	***Chunjie Yang***, *Zhejiang Univ.*
Co-Chair	***XiangKe Wang***, *National Univ. of Defense Tech.*

13:30-13:50 ***SunB03-1*** ***Observer-based Event-triggered Control for Consensus of Multi-agent Systems with Time Delay*** 2515
Wenhui Liu, *Zhejiang Univ.*
Chunjie Yang, *Zhejiang Univ.*
Youxian Sun, *Zhejiang Univ.*
Jiaxiang Qin, *Zhejiang Univ.*

13:50-14:10 ***SunB03-2*** ***Multi-UAV Formation Control Method Based on Modified Artificial*** 2523
Yu Fu, *National Univ. of Defense Tech.*
XiangKe Wang, *National Univ. of Defense Tech.*
Liu Huan, *National Univ. of Defense Tech.*
HuaYong Zhu, *National Univ. of Defense Tech.*

14:10-14:30 ***SunB03-3*** ***Coordinated Control for Multi-Agent Systems Based on Networked Predictive Control Schemes*** 2530
Haoran Tan, *Central South Univ.*
Min Wu, *China Univ. of Geosciences*
Zhiwu Huang, *Central South Univ.*

14:30-14:50 ***SunB03-4*** ***Distributed output-feedback adaptive consensus tracking control of nonlinear multi-agent systems with guaranteed transient performance*** 2536
Yanfeng Guan, *Chongqing Univ.*
Gang Chen, *Chongqing Univ.*

14:50:15:10 ***SunB03-5*** ***Moving Target Tracking Of A UAV Formation*** 2542
Kai Chang, *Mechanical Engineering Coll.*
Yuanqing Xia, *Beijing Inst. of Tech.*
Kaoli Huang, *Mechanical Engineering Coll.*
Dailiang Ma, *Beijing Inst. of Tech.*

15:10-15:30 ***SunB03-6*** ***A Unified Communication and Control Approach for Decentralized Heading Alignment in Robot Networks*** 2548
Yongqiang Wang, *Clemson Univ.*
Teddy Maxwell, *Clemson Univ.*
Edward Bear, *Clemson Univ.*
Timothy Anglea, *Clemson Univ.*

Session	***SunB04: Nonlinear Systems (III)***
Date/Time	Sunday, 29 May 2016 / 13:30-15:30
Venue	Room 04
Chair	***Zhen Pan***, *Beihang Univ.*
Co-Chair	***Xuefeng Zhang***, *Northeastern Univ.*

13:30-13:50 ***SunB04-1*** ***Three Dimensional Integrated Guidance and Control for Slide to Turn Missile with Input Saturation*** 2554
Zhen Pan, *Beihang Univ.*
Weihong Wang, *Beihang Univ.*
Shaofeng Xiong, *Beihang Univ.*
Ke Lu, *Science and Technology on Rotorcraft Aeromechanics Laboratory*

13:50-14:10 ***SunB04-2*** ***Semiglobal Distributed Output Regulation of Switching Multi-agent Systems via Dynamic Feedback*** 2560
Xiaoli Wang, *Harbin Inst. of Tech. at Weihai*
Tianhua Song, *Harbin Inst. of Tech. at Weihai*
Yaxiao Wu, *Harbin Inst. of Tech. at Weihai*

14:10-14:30 ***SunB04-3*** ***Sliding Mode Control for Nonlinear System with Hysteresis Based on RBFNN Approximation*** 2566
Haipeng Pan, *Zhejiang Sci-Tech Univ.*
Xianfeng Qian, *Zhejiang Sci-Tech Univ.*
Xinlong Zhao, *Zhejiang Sci-Tech Univ.*

14:30-14:50 ***SunB04-4*** ***Nonlinear Time-Varing Fractional Order System Simulation based on MATLAB*** 2573
Ying Xiao, *Northeastern Univ.*
Xuefeng Zhang, *Northeastern Univ.*
Huaxun Huang, *Northeastern Univ.*

14:50:15:10 ***SunB04-5*** ***Robust Stabilization of Input Constrained Uncertain Systems with Nonhomogeneous Markov Switching*** 2579
Yanyan Yin, *Jiangnan Univ.*
Zongli Lin, *Univ. of Virginia*

15:10-15:30 ***SunB04-6*** ***Saturated Backstepping Control for Boat with Disturbance Estimator*** 2585
Zhenning Yu, *Beijing Normal Univ.*

Session	***SunB05: Networked Control Systems (II)***
Date/Time	Sunday, 29 May 2016 / 13:30-15:30
Venue	Room 05
Chair	***Feixiang Peng***, *Tianjin Univ. of Tech.*
Co-Chair	***Hongru Gu***, *Tianjin Polytechnic Univ.*

13:30-13:50 ***SunB05-1*** ***Co-design of dynamic scheduling and H 8 filter for networked control systems with communication constraints*** 2591
Yong Zhang, *China Univ. of Petroleum*
Ning Wang, *China Univ. of Petroleum*
Jingjing Hu, *China Univ. of Petroleum*

13:50-14:10 ***SunB05-2*** ***Feedback Control for Uncertain Networked Control Systems with Random Input Time Delay*** 2597
Chuanxu Qiu, *Jiangnan Univ.*
Jiwei Wen, *Jiangnan Univ.*
Li Peng, *Jiangnan Univ.*

14:10-14:30 ***SunB05-3*** ***The Structure-conserving Module for Network Control System Based On Petri Nets*** 2602
Liankun Sun, *Tianjin Polytechnic Univ.*
Hongru Gu, *Tianjin Polytechnic Univ.*

14:30-14:50 ***SunB05-4*** ***Robust Guaranteed Cost Fault-tolerant Control for Uncertain Networked Control System with Time Delay and Packet Dropout*** 2607
Liyan Wang, *Hubei Univ. of Science and Tech.*
Yang Wang, *Hubei Univ. of Science and Tech.*
Xiaofen Wang, *Hubei Univ. of Science and Tech.*
Honghai Lian, *Hunan Univ. of Tech.*

14:50:15:10 ***SunB05-5*** ***Design of 4G Remote Data Transmission System Based on ARM*** 2613
Hong He, *Tianjin Univ. of Tech.*
Feixiang Peng, *Tianjin Univ. of Tech.*
Zhihong Zhang, *Tianjin Univ. of Tech.*
Tianjin Radio and TV Station

15:10-15:30 ***SunB05-6*** ***Probability-Based Robust H8 Filtering for Time-Varying Systems with Randomly Occurring Gain Variations and Fading Channels*** 2617
Xia Zhao, *Nanjing Coll. of Information Tech.*
Engang Tian, *Nanjing Normal Univ.*
Lei Wang, *Nanjing Normal Univ.*
Hongyan Li, *Nanjing Coll. of Information Tech.*

Session	***SunB06: Distributed Control Systems (I)***
Date/Time	Sunday, 29 May 2016 / 13:30-15:30
Venue	Room 06
Chair	***Yi Dong***, *Nanjing Unive. of Science and Tech.*
Co-Chair	***Jie Qi***, *Donghua Univ.*

13:30-13:50 ***SunB06-1*** ***Containment Control of Multiple Uncertain Lagrangian Systems*** 2623
Yi Dong, *Nanjing Unive. of Science and Tech.*
Shengyuan Xu, *Nanjing Unive. of Science and Tech.*

13:50-14:10 ***SunB06-2*** ***Distributed Control Laws for Multi-Agent System Formation Tracking Modeled by a Wave PDE*** 2629
Jiaheng Zhang, *Donghua Univ.*
Jie Qi, *Donghua Univ.*

14:10-14:30 ***SunB06-3*** ***Distributed adaptive output consensus control of nonlinear strict-feedback systems using neural networks*** 2635
Gang Wang, *Univ. of Shanghai for Science and Tech.*
Chaoli Wang, *Univ. of Shanghai for Science and Tech.*
Weidong Xu, *Univ. of Shanghai for Science and Tech.*

14:50:15:10 ***SunB06-5*** ***Try again till you are satisfied: convergence, outcomes and mean-field limits*** 2641
Alain Tcheukam, *New York Univ.*
Hamidou Tembine, *New York Univ.*

15:10-15:30	***SunB06-6***	***A Fault-Tlerant Scheduling Algorithm for Distributed Control System with Possible Hardware and Software Faults*** 2646 Huai Liu, *Nanjing Normal Univ.* Jianxin Huang, *Nanjing Normal Univ.*

Session	***SunB07: Neural Networks (II)***
Date/Time	Sunday, 29 May 2016 / 13:30-15:30
Venue	Room 07
Chair	***Yuhang Guo***, *Beihang Univ.*
Co-Chair	***Jie Fu***, *Chongqing Univ.*

13:30-13:50	***SunB07-1***	***Study of Full Interval Feed-forward Neural Network Shouping Guan Northeastern Univ.*** 2652 Rongye Liang, *Northeastern Univ.*
13:50-14:10	***SunB07-2***	***Neural Network Tracking Control of the 3-DOF Helicopter with Input Saturation*** 2656 Yuhang Guo, *Beihang Univ.* Zewei Zheng, *Beihang Univ.* Ming Zhu, *Beihang Univ.* Zhe Wu, *Beihang Univ.*
14:10-14:30	***SunB07-3***	***Improved Passivity Analysis for Uncertain Neural Networks with Time-varying Delay*** 2661 Shiyou Peng, *Guangdong Univ. of Tech.* Shiguo Peng, *Guangdong Univ. of Tech.*
14:30-14:50	***SunB07-4***	***Neural Network Modeling of Magneto-rheological Elastomer Isolator*** 2668 Guanyao Liao, *Chongqing Univ.* Jie Fu, *Chongqing Univ.* Peidong Li, *Chongqing Univ.* Miao Yu, *Chongqing Univ.*
14:50-15:10	***SunB07-5***	***Research on the evaluation of enterprise competitiveness based on the wavelet neural network forecasting system*** 2674 Zhiyuan Zhao, *Inst. of Scientific and Technical Information of China* Yanning Zheng, *Inst. of Scientific and Technical Information of China* Xiaoyuan Zhao, *Inst. of Scientific and Technical Information of China* Yamin Jia, *Inst. of Scientific and Technical Information of China*
17:10-17:30	***SunB07-6***	***Short-Term Wind Power Forecasting Based on Elman Neural Network with Particle Swarm Optimization*** 2678 Lei Xu, *Beifang Univ. of Nationalities* Jiandong Mao, *Beifang Univ. of Nationalities*

Session	***SunB08: Fault Diagnosis and Fault-Tolerant Control (II)***
Date/Time	Sunday, 29 May 2016 / 13:30-15:30
Venue	Room 08
Chair	***Bin Jiang***, *Nanjing Univ. of Aeronautics and Astronautics*
Co-Chair	***Ke Zhang***, *Nanjing Univ. of Aeronautics and Astronautics*

13:30-13:50 ***SunB08-1*** ***Finite-Time Tracking for Underactuated Vehicles with Parametric Uncertainties*** 2682
Xiuli Wang, *Nanjing Univ. of Aeronautics and Astronautics*
Bin Jiang, *Nanjing Univ. of Aeronautics and Astronautics*
Ningyun Lu, *Nanjing Univ. of Aeronautics and Astronautics*

13:50-14:10 ***SunB08-2*** ***Based on Wavelet Packet and The LS - SVM Ship With Warship Engine Fault Diagnosis*** 2687
Shijie Ma, *Qingdao Univ. of Tech.*
Hong Wang, *Qingdao Univ. of Tech.*

14:10-14:30 ***SunB08-3*** ***Nonlinear Fermentation Process Fault Monitoring Based on JITL Strategy*** 2692
Yakun Zhang, *Beijing Univ. of Tech.*
Engineering Research Center of Digital Community
Beijing Laboratory for Urban Mass Transit
Beijing Key Laboratory of Computational Intelligence and Intelligent System
Xuejin Gao, *Beijing Univ. of Tech.*
Engineering Research Center of Digital Community
Beijing Laboratory for Urban Mass Transit
Beijing Key Laboratory of Computational Intelligence and Intelligent System
Yafen Li, *Beijing Univ. of Tech.*
Engineering Research Center of Digital Community
Beijing Laboratory for Urban Mass Transit
Beijing Key Laboratory of Computational Intelligence and Intelligent System
Xichang Wang, *Beijing Univ. of Tech.*
Engineering Research Center of Digital Community
Beijing Laboratory for Urban Mass Transit
Beijing Key Laboratory of Computational Intelligence and Intelligent System
Pu Wang, *Beijing Univ. of Tech.*
Engineering Research Center of Digital Community
Beijing Laboratory for Urban Mass Transit
Beijing Key Laboratory of Computational Intelligence and Intelligent System

14:30-14:50 ***SunB08-4*** ***Path Following Control for a Stratospheric Airship with Constrained Control Allocation*** 2698
Hui Lv, *Beihang Univ.*
Zewei Zheng, *Beihang Univ.*
Ming Zhu, *Beihang Univ.*
Zhe Wu, *Beihang Univ.*

14:50-15:10 ***SunB08-5*** ***Dissipativity-Based Fault Estimation Observer Design for Linear Multi-Agent Systems with Disturbances*** 2705
Yang Cui, *Nanjing Univ. of Aeronautics and Astronautics*
Ke Zhang, *Nanjing Univ. of Aeronautics and Astronautics*
Bin Jiang, *Nanjing Univ. of Aeronautics and Astronautics*

17:10-17:30 ***SunB08-6*** ***Methods of Evaluation of Navigation Errors in Platform Inertial Navigation Systems based on PSVR*** 2710
Chao Huang, *Harbin Inst. of Tech.*
Guoxing Yi, *Harbin Inst. of Tech.*
Qingshuang Zen, *Harbin Inst. of Tech.*
Ziyang Qi, *Harbin Inst. of Tech.*
Mingyang Yang, *Harbin Inst. of Tech.*

Session	***SunB09: Control Applications (III)***
Date/Time	Sunday, 29 May 2016 / 13:30-15:30
Venue	Room 09
Chair	***Ming Li***, *Beihang Univ.*
Co-Chair	***Hongbo Wang***, *Hefei Univ. of Tech.*

13:30-13:50 ***SunB09-1*** ***Study of Touch Screen on Marine Power Station Based on Fuzzy PID Control Algorithm*** 2717
Tingting Huang, *Guangzhou Maritime Inst.*
Ming Bai, *Guangzhou Maritime Inst.*
Yuanming Zeng, *Guangzhou Maritime Inst.*
Guopiao Li, *Guangzhou Maritime Inst.*
Yiyi Zhan, *Guangzhou Maritime Inst.*

13:50-14:10 ***SunB09-2*** ***Unbalance Disturbance Restraining for Inertial Stabilized Platform*** 2723
Ming Li, *Beihang Univ.*
Jie Li, *Beihang Univ.*
Renqiang Zhang, *Beihang Univ.*

14:10-14:30 ***SunB09-3*** ***Building Dynamic Evacuation Based on a Fly Optimization*** 2729
Lijie Zhang, *Northeastern Univ.*
Ningxia Inst. of Science and Tech.
Jianchang Liu, *Northeastern Univ.*
Shubin Tan, *Northeastern Univ.*

14:30-14:50 ***SunB09-4*** ***Research on Hierarchical Control of Automobile Adaptive Cruise System Based on the Mode Switching*** 2733
Hongbo Wang, *Hefei Univ. of Tech.*
Xiaowen Sun, *Hefei Univ. of Tech.*
Jiang You, *Hefei Univ. of Tech.*

14:50-15:10 ***SunB09-5*** ***Construction and Synchronization for a New Time-delayed Chaotic System*** 2739
Keyong Shao, *Northeast Petroleum Univ.*
Tingting Zhang, *Northeast Petroleum Univ.*
Xiang Xu, *Northeast Petroleum Univ.*
Di Ma, *Northeast Petroleum Univ.*
Baiquan Chen, *Northeast Petroleum Univ.*
Deyang Wen, *Sixth Oil Production Plant Test Brigade*

15:10-15:30 ***SunB09-6*** ***Design of Network Control System for Automotive Proving Ground*** 2743
Daqian Liu, ***North China Univ. of Tech.***
Lei Gao, ***North China Univ. of Tech.***
Cunwu Han, ***North China Univ. of Tech.***
Jinhuan Wang, ***North China Univ. of Tech.***

Session	***SunB10: Signal Processing (II)***
Date/Time	Sunday, 29 May 2016 / 13:30-15:30
Venue	Room 10
Chair	***Dongyue Chen***, ***Northeastern Univ.***
Co-Chair	***Jun Xu***, ***Harbin Univ. of Science and Tech.***

13:30-13:50 ***SunB10-1*** ***Online Hash Tracking*** 2747
Jianwu Fang, ***Chang'an Univ.***
Rixing Zhu, ***Chang'an Univ.***
Hongke Xu, ***Chang'an Univ.***
Shan Lin, ***Chang'an Univ.***

13:50-14:10 ***SunB10-2*** ***Ventricle Detection based on Boolean Maps and Geometric Features*** 2753
Dongyue Chen, ***Northeastern Univ.***
Jingfeng Zhang, ***Northeastern Univ.***
Huazhao Chen, ***Northeastern Univ.***
Tong Jia, ***Northeastern Univ.***
Chengdong Wu, ***Northeastern Univ.***

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Xin Yao, ***The First Aircraft Inst. of AVIC***
Xiaofan Niu, ***The First Aircraft Inst. of AVIC***

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Chair	***Biao Wang***, ***Northeastern Univ.***
Co-Chair	***Min Lin***, ***Guizhou Univ.***

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Chair	***De Xu***, ***Inst. of Automation, Chinese Acad. of Scie.***
Co-Chair	***Hao Liu***, ***Inst. of Automation, Chinese Acad. of Scie.***

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Yan Liu, ***Inst. of Automation, Chinese Acad. of Scie.***
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Hao Liu, ***Inst. of Automation, Chinese Acad. of Scie.***
Anzhu Gao, ***Inst. of Automation, Chinese Acad. of Scie.***
Yuanyuan Zhou, ***Inst. of Automation, Chinese Acad. of Scie.***
Siwen Hao, ***Inst. of Automation, Chinese Acad. of Scie.***

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Jiwei Liu, ***Univ. of Science and Tech. Beijing***
Ye Zhang, ***CECEP Wind-power Corporation Co.,Ltd***
Xin Zhao, ***Univ. of Science and Tech. Beijing***
Chaowen Yan, ***Univ. of Science and Tech. Beijing***

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Co-Chair	***Qingshan Jia***, ***Tsinghua Univ.***	
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Xiumei Yang, ***Tianjin Xingye Engineering Cost Consulting Co., Ltd.***
Chunbo Xiu, ***Tianjin polytechnic Univ.***
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Yanjuan Wu, ***Tianjin Univ. of Tech.***
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Beijing Key Laboratory of Computational Intelligence and Intelligent System
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Engineering Research Center of Digital Community
Beijing Laboratory for Urban Mass Transit
Beijing Key Laboratory of Computational Intelligence and Intelligent System
Yafen Li, ***Beijing Univ. of Tech.***
Engineering Research Center of Digital Community
Beijing Laboratory for Urban Mass Transit
Beijing Key Laboratory of Computational Intelligence and Intelligent System
Pu Wang, ***Beijing Univ. of Tech.***
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Binbin Qiu, ***Sun Yat-sen Univ. SYSU-CMU Shunde International Joint Research Inst. Key Laboratory of Autonomous Systems and Networked Control***
Hongzhou Tan, ***Sun Yat-sen Univ. SYSU-CMU Shunde International Joint Research Inst.***
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Li Song, *Beijing Institute of Space Mechanics & Electricity Academy of Mathematics*
Zhe Lin, *Beijing Institute of Space Mechanics & Electricity Academy of Mathematics*

SunBIS-60 ***Vertical Oscillation Characteristics of Stratospheric Airships in Level-flight Drift*** 3208
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Jianghua Zhou, *Academy of Opto-Electronics, Chinese Academy of Sciences*
Jingguang Miao, *Academy of Opto-Electronics, Chinese Academy of Sciences*

SunBIS-61 ***A trajectory tracking control strategy for a novel multi-rotor aircraft*** 3213
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Yue Wang, *The 28th Research Inst. of China Electronics Tech. Group Corporation*
Jinyu Wu, *The 28th Research Inst. of China Electronics Tech. Group Corporation*
Min Huang, *The 28th Research Inst. of China Electronics Tech. Group Corporation*
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SunBIS-62 ***Discrete-time Stochastic Source Seeking with Multiple Nonholonomic Unicycles*** 3218
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SunBIS-63 ***Micro-vibration control method based on magnetic flux notch filter for magnetically levitated rotor*** 3224
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SunBIS-64 ***The Continuous and Coordinated Control Method of Captive Trajectory System in a Transonic Wind Tunnel*** 3229
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Zhenghua Gu, ***Facility Design and Instrumentation Inst. State Key Laboratory of Aerodynamics, CARDC***
Rusong Zhu, ***Facility Design and Instrumentation Inst. State Key Laboratory of Aerodynamics, CARDC***
Gang Li, ***Facility Design and Instrumentation Inst. State Key Laboratory of Aerodynamics, CARDC***
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SunBIS-65 ***Improved Dynamic Double Mutation Particle Swarm Optimization for Mobile Robot Path Planning*** 3235
Linling Liao, ***Zhejiang Normal Univ.***
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Huadong Huang, ***Zhejiang Normal Univ.***
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SunBIS-66 ***Active Disturbance Rejection Controller Design for PMSM*** 3240
Bitao Zhang, ***Guangzhou Hong Kong Univ. of Science and Tech. Fok Ying Tung Research Inst.***
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SunBIS-67 ***Design for Motor Speed Fractional Order Controller Based on Improved Artificial Bee Colony Algorithm*** 3244
Liangsong Huang, ***Shandong Univ. of Science and Tech.***
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SunBIS-68 ***Attitude Stabilization and Tracking of Quadrotors*** 3250
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SunBIS-69 ***Control in Impact Vibration of Non-contact Satellite*** 3255
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SunBIS-70 ***Research on the Rotary-Linear Motion Magnetic Gear Based on ANSYS*** 3259
Hua Li, ***Northeastern Univ.***
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Session	***SunC02: Robust Control (III)***
Date/Time	Sunday, 29 May 2016 / 15:50-17:50
Venue	Room 02
Chair	***Zhihong Guan***, *Huazhong University of Scie. and Tech.*
Co-Chair	***Guodong Yin***, *Southeast Univ.*

15:50-16:10 ***SunC02-1*** ***Essentials of the Fourth-Order Linear Active Disturbance Rejection Control and Its Application in a Cascade Control System*** 3265
Congzhi Huang, *North China Electric Power Univ.*
Qing Zheng, *Gannon Univ.*

16:10-16:30 ***SunC02-2*** ***Robust Speed Control of a Permanent Magnet Synchronous Motor System*** 3271
Yang Zhao, *Cleveland State Univ.*
Lili Dong, *Cleveland State Univ.*

16:30-16:50 ***SunC02-3*** ***Active Steering of Autonomous Vehicle Using Model Predictive Control with Legendre Function*** 3277
Guodong Yin, *Southeast Univ.*
Zhenyu Wang, *Southeast Univ.*
Xianjian Jin, *Southeast Univ.*

16:50-17:10 ***SunC02-4*** ***Non-fragile Robust H8 Controller Design for 4WS-4WD Vehicle*** 3282
Guodong Yin, *Southeast Univ.*
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Dan Zhao, *Huazhong University of Scie. and Tech.* 3288
Yonghong Wu, *Wuhan University of Tech.*
Chao Yang, *Huazhong University of Scie. and Tech.*
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Zhihong Guan, *Huazhong University of Scie. and Tech.*

17:30-17:50 ***SunC02-6*** ***H8 output feedback control for polytopic Delta operator systems***
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Ying Zhang, *Harbin Institute of Tech.*
Rui Zhang, *Shenzhen Institute of Information Tech.*

Session	***SunC03: Identification and Estimation (I)***
Date/Time	Sunday, 29 May 2016 / 15:50-17:50
Venue	Room 03
Chair	***Dahai Yu***, *Beijing Univ. of Posts and Telecommunications*
Co-Chair	***Junsheng Ren***, *Dalin Maritime Univ.*

15:50-16:10 ***SunC03-1*** ***Design of the PID controller for industrial processes based on the stability margin*** 3300
Ling Xu, *Wuxi Vocational Inst. of Commerce*
Feng Ding, *Jiangnan Univ.*

16:10-16:30 ***SunC03-2*** ***Improving the Estimation Precision of Causal Effects by Selecting Covariates*** 3305
Xueli Wang, *Beijing Univ. of Posts and Telecommunications*
Dahai Yu, *Beijing Univ. of Posts and Telecommunications*
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16:30-16:50 ***SunC03-3*** ***Online Calibration Method Based on Dual-axis Rotation-modulating Laser Gyro SINS*** 3311
Chong Qin, *Beijing Inst. of Tech.*
Jiabin Chen, *Beijing Inst. of Tech.*
Yongqiang Han, *Beijing Inst. of Tech.*
Chunlei Song, *Beijing Inst. of Tech.*
Mingjie Wang, *Beijing Inst. of Tech.*

16:50-17:10 ***SunC03-4*** ***On the Identification of Coupled Pitch and Heave Motions using Support Vector Machine*** 3316
Weiming Luo, *Dalin Maritime Univ.*
Traffic Management Research Inst. of Ministry of Public Security
Junsheng Ren, *Dalin Maritime Univ.*

17:10-17:30 ***SunC03-5*** ***Identification of the Superheated Steam Temperature System Based on the Variable Step Improved Fruit Fly Optimization Algorithm*** 3322
Le Wei, *North China Electric Power Univ.*
Yuanyuan Yan, *North China Electric Power Univ.*
Xiaolong Jiang, *Shenhua Shenwan Hefei Lujiang Power Generation Co.Ltd*
Tengteng Qin, *North China Electric Power Univ.*
Zhaoxiong Yuan, *North China Electric Power Univ.*
Junhong Hou, *North China Electric Power Univ.*

17:30-17:50 ***SunC03-6*** ***Acceleration Harmonic Identification for an Electro-hydraulic Shaking Table Based on BP Network*** 3328
Jianjun Yao, *Harbin Engineering Univ.*
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Tao Wang, *Harbin Engineering Univ.*
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Le Zhang, *Harbin Engineering Univ.*
Cheng Sun, *Harbin Engineering Univ.*
Zhenshuai Wan, *Harbin Engineering Univ.*

Session	***SunC04: Intelligent Systems (II)***
Date/Time	Sunday, 29 May 2016 / 15:50-17:50
Venue	Room 04
Chair	***Xiaoyi Zhang***, *Beihang Univ.*
Co-Chair	***Yuhan Liu***, *Univ. of Science and Tech. Beijing*

15:50-16:10 ***SunC04-1*** ***Image Classification Via Multi-View Model*** 3333
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Songhao Zhu, *Nanjing Univ. of Posts and Telecommunications*
Zhiwei Liang, *Nanjing Univ. of Posts and Telecommunications*
Guozheng Xu, *Nanjing Univ. of Posts and Telecommunications*

16:10-16:30 ***SunC04-2*** ***Target Detection Via Statistical Model Learning*** 3338
Xian Sun, *Nanjing Univ. of Posts and Telecommunications*
Songhao Zhu, *Nanjing Univ. of Posts and Telecommunications*
Dongliang Jin, *Nanjing Univ. of Posts and Telecommunications*
Zhiwei Liang, *Nanjing Univ. of Posts and Telecommunications*
Guozheng Xu, *Nanjing Univ. of Posts and Telecommunications*

16:30-16:50 ***SunC04-3*** ***A Topology Attack on Averaging Consensus Convergence Hao Wu Lab, CNCERT/CC*** 3343
Xianglei Dang, *Lab, CNCERT/CC*
Bin Li, *HAEPC Electric Power Research Institute*

16:50-17:10	***SunC04-4***	***Compressive Tracking with Multi-Feature Weighting Based on Kalman Predictor*** 3349 Hongge Ren, *North China Univ. of Science and Tech.* Weimin Liu, *North China Univ. of Science and Tech.* Fujin Li, *North China Univ. of Science and Tech.* Chunlei Zhang, *North China Univ. of Science and Tech.*
17:10-17:30	***SunC04-5***	***A Random and Coverage-based Approach for Fault Localization Prioritization*** 3354 Xiaoyi Zhang, *Beihang Univ.* Dave Towey, *The Univ. of Nottingham Ningbo China* Tsong Yueh, *Chen Swinburne Univ. of Tech.* Zheng Zheng, *Beihang Univ.* Kaiyuan Cai, *Beihang Univ.*
17:30-17:50	***SunC04-6***	***Application of Monte Carlo & Optimized UCT Algorithm in WTN Chess*** 3362 Yuhan Liu, *Univ. of Science and Tech. Beijing* Luxi Xing, *Univ. of Science and Tech. Beijing* Xiang Tian, *Univ. of Science and Tech. Beijing* Zhen Wang, *Univ. of Science and Tech. Beijing*

Session	***SunC05: Sensor Network Systems (II)***
Date/Time	Sunday, 29 May 2016 / 15:50-17:50
Venue	Room 05
Chair	***Meng Zhao***, *Hangzhou Dianzi Univ.*
Co-Chair	***Xu Luo***, *Zunyi Medical Univ.*

15:50-16:10	***SunC05-1***	***Sensor Assignment Method Based on Time-Varying Measurement Variance for Tracking Multi-targets*** 3368 Meng Zhao, *Hangzhou Dianzi Univ.* Yan Zuo, *Hangzhou Dianzi Univ.* Yuyu Fang, *Hangzhou Dianzi Univ.* Mingdi Li, *Hangzhou Dianzi Univ.*
16:10-16:30	***SunC05-2***	***Water Pollution Source Localization Based on the Contour in Sensor Networks*** 3373 Xu Luo, *Zunyi Medical Univ.* Jun Yang, *Wuhan Univ. of Science and Tech.* Li Chai, *Wuhan Univ. of Science and Tech.*
16:30-16:50	***SunC05-3***	***Survey of Multi-sensors Autonomous Cooperative Mission Planning in anti-NSHV Systems*** 3378 Wen Sun, *Air Force Engineering Univ.* Gang Wang, *Air Force Engineering Univ.* Jiangjiang Wang, *Air Force Engineering Univ.* Tao Li, *Air Force Engineering Univ.* Min Zhao, *Air Force Engineering Univ.*
16:50-17:10	***SunC05-4***	***Distributed State Estimations Based on Cubature Kalman Filtering*** 3384 Qian Chen, *Hohai Univ.* Wancheng Wang, *Hohai Univ.* Chao Yin, *Southwest Univ.*
17:10-17:30	***SunC05-5***	***Distributed Camera Network with Naive Nodes*** 3390 Guoliang Liu, *Shandong Univ.* Guohui Tian, *Shandong Univ.*

17:30-17:50	***SunC05-6***	***The Research of Performance Test Method of Urban Rail Train Safety Detection Sensor Network*** 3395 Ruhao Zhao, *Beijing Jiaotong Univ.* *Beijing Engineering Research Center* Honghui Dong, *Beijing Jiaotong Univ.* *Beijing Engineering Research Center* Limin Jia, *Beijing Jiaotong Univ.* *Beijing Engineering Research Center* Haifeng Yang, *The Ministry of Environmental Protection* Zhiwei Teng, *Beijing Jiaotong Univ.* *Beijing Engineering Research Center* Xiaoping Ma, *Beijing Jiaotong Univ.* *Beijing Engineering Research Center*	

Session	***SunC06: Decision Supporting System and Production Planning and Scheduling (I)***
Date/Time	Sunday, 29 May 2016 / 15:50-17:50
Venue	Room 06
Chair	***Kaihua Wu***, *South China Univ. of Tech. Engineering Research Centre*
Co-Chair	***Fei Tang***, *Northeastern Univ.* *Shenyang Univ. of tech.*

15:50-16:10	***SunC06-1***	***An improved genetic algorithm for the re-entrant and flexible job-shop scheduling problem*** 3399 Mei Zhang, *South China Univ. of Tech. Engineering Research Centre* Kaihua Wu, *South China Univ. of Tech. Engineering Research Centre*	
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16:30-16:50	***SunC06-3***	***Mixed integer programming formulations for new jobs rescheduling on single machine to minimize maximum waiting-times*** 3411 Yandong Guo, *Bohai Univ. Jinzhou* *Northeastern Univ.* Min Huang, *Northeastern Univ.* Qin Wang, *Northeastern Univ.* Kai Yang, *Northeastern Univ.*	
16:50-17:10	***SunC06-4***	***Differential Evolution Algorithm for Solving Coil Scheduling Problem in Parallel Continuous Annealing Lines*** 3417 Shengnan Zhao, *Northeastern Univ.* Yang Yang, *Northeastern Univ.*	
17:10-17:30	***SunC06-5***	***Modelling and Optimization of Heating Dispatch in Thermal Power Plant*** 3423 Lixia Xie, *Xi'an Univ. of Tech.* Yali Wu, *Xi'an Univ. of Tech.* Xianyong Peng, *Emerson Process Management Co. Ltd.* Lei Li, *Xi'an Univ. of Tech.* Fan Yi, *Emerson Process Management Co. Ltd.*	

Session	***SunC07: Neural Networks (III)***
Date/Time	Sunday, 29 May 2016 / 15:50-17:50
Venue	Room 07
Chair	***Zeqiang He***, *Harbin Inst. of Tech.*
Co-Chair	***Xiaoyu Liu***, *Wuhan Univ. of Science and Tech.*

15:50-16:10	***SunC07-1***	***A new method for general work piece recognition based on Neural Network*** 3428 Zeqiang He, *Harbin Inst. of Tech.* Jiachen Ma, *Harbin Inst. of Tech.* Zonglin Li, *Harbin Inst. of Tech.*	
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17:30-17:50	***SunC07-6***	***The Application of Li-Function Activated RNN to Acceleration-Level Robots' Kinematic Control via Time-Varying Matrix Inversion*** 3455 Dongsheng Guo, *Huaqiao Univ.* Kene Li, *Guangxi Univ. of Science and Tech.* Laicheng Yan, *Huaqiao Univ.* Zhuoyun Nie, *Huaqiao Univ.* Fujiang Jin, *Huaqiao Univ.*	

Session	***SunC08: Fault Diagnosis and Fault-Tolerant Control (III)***	
Date/Time	Sunday, 29 May 2016 / 15:50-17:50	
Venue	Room 08	
Chair	***Xuejin Gao***, ***Beijing Univ. of Tech.***	
Co-Chair	***Guannan He***, ***Beijing Univ. of Chemical Tech.***	
15:50-16:10	***SunC08-1***	***Fault Detection of Batch Process Based on MSICA-OCSVM*** 3461 Xuejin Gao, ***Beijing Univ. of Tech. Engineering Research Center of Digital Community Beijing Laboratory for Urban Mass Transit Beijing Key Laboratory of Computational Intelligence and Intelligent System*** Rong Ma, ***Beijing Univ. of Tech. Engineering Research Center of Digital Community Beijing Laboratory for Urban Mass Transit Beijing Key Laboratory of Computational Intelligence and Intelligent System***
16:10-16:30	***SunC08-2***	***Observer-based Scheme for Fault Estimation and Robust Tolerant Control: An LMI Approach*** 3466 Guannan He, ***Beijing Univ. of Chemical Tech.*** Yang Liu, ***Beijing Automatic Engineering School*** Jing Ji, ***Guangdong Univ. of Tech.*** Wensheng Yu, ***Beijing Univ. of Posts and Telecommunications***
16:30-16:50	***SunC08-3***	***On the use of EEMD and SVM based approach for bearing fault diagnosis of wind turbine gearbox*** 3472 Chunzhi Hu, ***Zhejiang Univ.*** Miaoying Huang, ***Zhejiang Univ.*** Qiang Yang, ***Zhejiang Univ.*** Wenjun Yan, ***Zhejiang Univ.***
16:50-17:10	***SunC08-4***	***Nonlinear Tracking Control Methods Applied to Qball-X4 Quadrotor UAV against Actuator Faults*** 3478 Huanhuan Wang, ***Xi'an Univ. of Tech.*** Youmin Zhang, ***Xi'an Univ. of Tech.*** Yingmin Yi, ***Xi'an Univ. of Tech.*** Jing Xin, ***Xi'an Univ. of Tech.*** Ding Liu, ***Xi'an Univ. of Tech.***
17:10-17:30	***SunC08-5***	***Initial Fault Feature Extraction for Rolling Bearings Based on Piecewise Matching Pursuit*** 3484 Weimin Li, ***Tangshan Vocational and Technical Coll.*** Jizhao Ma, ***Tangshan Vocational and Technical Coll.*** Fajun Yu, ***Zhongyuan Univ. of Tech.***
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Session	***SunC09: Control Applications (IV)***
Date/Time	Sunday, 29 May 2016 / 15:50-17:50
Venue	Room 09
Chair	***Jie Li***, ***National Univ. of Defense Tech.***
Co-Chair	***Lihong Dai***, ***Univ. of Science and Tech. Liaoning***

15:50-16:10 ***SunC09-1*** ***Design of Energy-saving Control System on Escalator Based on LOGO! And Frequency Converter*** 3494
Lihong Dai, ***Univ. of Science and Tech. Liaoning***
Maoxiang Chu, ***Univ. of Science and Tech. Liaoning***
Bin Hong, ***Univ. of Science and Tech. Liaoning***
Peng Feng, ***Univ. of Science and Tech. Liaoning***
Peng Yao, ***Univ. of Science and Tech. Liaoning***

16:10-16:30 ***SunC09-2*** ***The Exponential Reaching Law Sliding Mode Control of Magnetic Levitation System*** 3500
Xuejuan Shao, ***Taiyuan Univ. of Science and Tech.***
Fanbin Meng, ***Taiyuan Univ. of Science and Tech.***
Zhimei Chen, ***Taiyuan Univ. of Science and Tech.***
Qiusheng He, ***Taiyuan Univ. of Science and Tech.***

16:30-16:50 ***SunC09-3*** ***Rapid Detection System for Pesticide Residue Based on Embedded Technology*** 3504
Zhiqin He, ***Guizhou Univ.***
Yufang Huang, ***Guizhou Univ.***
Xianglei Liu, ***Guizhou Univ.***
Xiangping Chen, ***Guizhou Univ.***

16:50-17:10 ***SunC09-4*** ***An Performance Assessment Method for Suspension Control System of Maglev Train*** 3509
Peichang Yu, ***National Univ. of Defense Tech.***
Jie Li, ***National Univ. of Defense Tech.***
Danfeng Zhou, ***National Univ. of Defense Tech.***
Zhaoyu Guo, ***National Univ. of Defense Tech.***
Junyu Wei, ***National Univ. of Defense Tech.***

17:10:17:30 ***SunC09-5*** ***Parafoil Air-dropped Control with Fixed Set-point Based on Interval Type II Fuzzy Logic*** 3515
Yongxin Li, ***Nankai Univ.***
Kuansheng Zou, ***Jiangsu Normal Univ.***
Yunxi Zhang, ***Tianjin Univ. of Tech. and Education***

17:30-17:50 ***SunC09-6*** ***Heavyweight airdrop flight control using backstepping sliding mode with adaptive function approximation*** 3520
Ri Liu, ***Air Force Engineering Univ.***
Xiuxia Sun, ***Air Force Engineering Univ.***
Wenhan Dong, ***Air Force Engineering Univ.***
Dong Wang, ***Air Force Engineering Univ.***

Session	***SunC10: Signal Processing (III)***
Date/Time	Sunday, 29 May 2016 / 15:50-17:50
Venue	Room 10
Chair	***Wei Xie***, ***South China Univ. of Tech.***
Co-Chair	***Shuai Li***, ***Beijing Inst. of Tech.***

15:50-16:10 ***SunC10-1*** ***Salt & pepper image denoising based on Adaptive Fractional integral*** 3525
Bo Li, ***South China Univ. of Tech.***
Wei Xie, ***South China Univ. of Tech.***
Langwen Zhang, ***South China Univ. of Tech.***
Zhongwei He, ***South China Univ. of Tech.***

16:10-16:30 ***SunC10-2*** ***An Iterative Approach to FIR Filter Design with Reduced Group Delay Error via Semidefinite Programming*** 3529
Binbin Sun, ***Zhejiang Univ. of Tech.***
Zeru Lu, ***Zhejiang Univ. of Tech.***
Dacai Xu, ***Zhejiang Univ. of Tech.***

16:30-16:50 ***SunC10-3*** ***A Fast SAR Image Position Algorithm for Maritime Target Location*** 3534
Linglin Wang, ***Inner Mongolia Univ.***
Yongxin Liu, ***Inner Mongolia Univ.***
Hui Zhang, ***Inner Mongolia Univ.***

16:50-17:10 ***SunC10-4*** ***A novel smoke detection algorithm based on Fast Self-tuning background subtraction*** 3539
Shuai Li, ***Beijing Inst. of Tech.***
Bo Wang, ***Beijing Inst. of Tech.***
Ranran Dong, ***Beijing Inst. of Tech.***
Zhiqiang Zhou, ***Beijing Inst. of Tech.***
Sun Li, ***Beijing Inst. of Tech.***

17:10-17:30 ***SunC10-5*** ***Harmonic Separation Method Based on Sparse Representation for Power System*** 3544
Fen Liang, ***Zhongyuan Univ. of Tech.***
Xuehua Tao, ***Zhongyuan Univ. of Tech.***
Fajun Yu, ***Zhongyuan Univ. of Tech.***
Wuhan Univ. of Science and Tech.

17:30-17:50 ***SunC10-6*** ***Multi-frequency Periodic Weak Signal Detection Based on Single-well Potential Stochastic Resonance*** 3548
Mingxia Xiao, ***Hefei Univ. of Tech.***
Beifang Univ. of Nationalities
Changhua Lu, ***Hefei Univ. of Tech.***
Weiwei Jiang, ***Hefei Univ. of Tech.***
Haicheng Wei, ***Beifang Univ. of Nationalities***
Zhiying Tao, ***Hefei Univ. of Tech.***
Bai Zhang, ***Beifang Univ. of Nationalities***

Session	***SunC11: Data-driven Control (I)***
Date/Time	Sunday, 29 May 2016 / 15:50-17:50
Venue	Room 11
Chair	***Wei Wei***, ***Beijing Tech. and Business Univ.***
Co-Chair	***Lili Zhang***, ***North China Univ. of Tech.***

15:50-16:10 ***SunC11-1*** ***Improvement on Mixed-control Algorithm for On-ramp Metering*** 3554
Haibo Zhang, ***North China Univ. of Tech.***
Lili Zhang, ***North China Univ. of Tech.***
Li Wang, ***North China Univ. of Tech.***
Min Li, ***North China Univ. of Tech.***
Zhengxin Li, ***North China Univ. of Tech.***

16:10-16:30 ***SunC11-2*** ***Off-ramp of Urban Freeway and Close to Cohesion Intersection Coordinated Control*** 3560
Lili Zhang, ***North China Univ. of Tech.***
Li Wang, ***North China Univ. of Tech.***
Min Li, ***North China Univ. of Tech.***
Dai Li, ***Beijing Jiaotong Univ.***
Haibo Zhang, ***North China Univ. of Tech.***
Zhengxi Li, ***North China Univ. of Tech.***

16:30-16:50 ***SunC11-3*** ***Improving the Efficiency of Extended State Observer under Noisy Measurements by Low-pass Filter*** 3566
Wei Wei, ***Beijing Tech. and Business Univ.***
Bo Liang, ***Beijing Tech. and Business Univ.***
Donghai Li, ***Tsinghua Univ.***
Weijun Su, ***Beijing Tech. and Business Univ.***

16:50-17:10 ***SunC11-4*** ***Coordination control of Entrance Ramp Metering and Upstream Signal Control based on CPN*** 3570
Min Li, ***North China Univ. of Tech.***
Lili Zhang, ***North China Univ. of Tech.***
Li Wang, ***North China Univ. of Tech.***
Haibo Zhang, ***North China Univ. of Tech.***
Zhengxi Li, ***North China Univ. of Tech.***

17:10-17:30 ***SunC11-5*** ***A Robust Pruning Method for Reduced Weighted Least Squares Support Vector Machine*** 3576
Gangquan Si, ***Xi'an Jiaotong Univ.***
Zhang Guo, ***Xi'an Jiaotong Univ.***
Jianquan Shi, ***Xi'an Jiaotong Univ.***

17:30-17:50 ***SunC11-6*** ***Density Clustering Pruning Method Based on Reconstructed Support Vectors for Sparse LSSVM*** 3582
Gangquan Si, ***Xi'an Jiaotong Univ.***
Jianquan Shi, ***Xi'an Jiaotong Univ.***
Zhang Guo, ***Xi'an Jiaotong Univ.***
Yanbin Zhang, ***Xi'an Jiaotong Univ.***

Session	***SunC12: Visual Servoing***
Date/Time	Sunday, 29 May 2016 / 15:50-17:50
Venue	Room 12
Chair	***Zengfu Wang***, *Univ. of Science and Tech. of China*
Co-Chair	***Chunbo Xiu***, *Tianjin Polytechnic Univ.*

15:50-16:10 ***SunC12-1*** ***Visual Tracking via Ergodic Markov Chain and Depth Fusion*** 3588
Wei Liu, *Univ. of Science and Tech. Beijing*
Xiaoli Li, *Beijing Univ. of Tech.*

16:10-16:30 ***SunC12-2*** ***Novel Hybrid IBVS Based on The Unified Projection Model*** 3594
Guoqiang Ye, *South China Univ. of Tech.*
Weiguang Li, *South China Univ. of Tech.*
Hao Wan, *South China Univ. of Tech.*
Zhen Li, *South China Univ. of Tech.*

16:30-16:50 ***SunC12-3*** ***Target Tracking Based on the Improved Camshift Method*** 3600
Chunbo Xiu, *Tianjin Polytechnic Univ.*
Fushan Ba, *Tianjin Polytechnic Univ.*

16:50-17:10 ***SunC12-4*** ***Multi-sensor Fusion based Real-time Hovering for A Quadrotor without GPS in Assigned Position*** 3605
Wei Zheng, *China Ship Building Industry Corporation*
Jing Wang, *China Ship Building Industry Corporation*
Zengfu Wang, *Univ. of Science and Tech. of China*

17:10-17:30 ***SunC12-5*** ***Improved Discriminative Sparsity Preserving Projections for Image Recognition*** 3611
Jianbo Zhang, *Northeastern Univ.*
Jinkuan Wang, *Northeastern Univ. at Qinhuangdao*

17:30-17:50 ***SunC12-6*** ***Template Matching Tracking Method Based on Target Decomposition*** 3616
Chunbo Xiu, *Tianjin Polytechnic Univ.*
Hongjie Li, *Tianjin Polytechnic Univ.*

Session	***SunC13: Intelligent Building Control and Management (III)***
Date/Time	Sunday, 29 May 2016 / 15:50-17:50
Venue	Room 13
Chair	***Yahui Wang***, *Beijing Univ. of Civil Engineering and Architecture*
Co-Chair	***Qingshan Jia***, *Tsinghua Univ.*

15:50-16:10 ***SunC13-1*** ***Real-Time Fire Detection Using Video Sequence Data*** 3620
De Zhang, *Beijing Univ. of Civil Engineering and Architecture*
Yahui Wang, *Beijing Univ. of Civil Engineering and Architecture*

16:10-16:30 ***SunC13-2*** ***Design of Wireless Monitoring System for Gas Emergency Repairing*** 3624
Qiang Luo, *Department of High Pressure Pipe Network Branch of Beijing gas group*
Xiaoran Guo, *Beijing Univ. of Civil Engineering and Architecture*
Yahui Wang, *Beijing Univ. of Civil Engineering and Architecture*
Xufeng Wei, *Beijing Univ. of Civil Engineering and Architecture*

16:30-16:50 ***SunC13-3*** ***Optimization of MonteCarlo mobile node localization algorithm based on least squares fitting*** 3630
Lei Xia, ***Beijing Univ. of Civil Engineering and Architecture***
Zhi Tan, ***Beijing Univ. of Civil Engineering and Architecture***
Liwen Liang, ***Beijing Univ. of Civil Engineering and Architecture***

16:50-17:10 ***SunC13-4*** ***Air Source Heat Pump Energy Storage HeatingSystem for Smart Building*** 3635
Xingchi Chen, ***Northeastern Univ.***
Xiaojing Zhang, ***Shenyang Jianzhu Univ.***
Hai Zhao, ***Northeastern Univ.***

17:10-17:30 ***SunC13-5*** ***Research on public building fire risk assessment control model*** 3640
Yayun Wei, ***Beijing Univ. of Civil Engineering and Architecture***
Jia Wang, ***Beijing Univ. of Civil Engineering and Architecture***

17:30-17:50 ***SunC13-6*** ***The model reference adaptive control method of submerged arc welding power supply system*** 3646
Yunhui Liu, ***Beijing Univ. of Civil Engineering and Architecture***
Beijing Key Lab. of Robot Bionics and Function Research
Xingang Miao, ***Beijing Univ. of Civil Engineering and Architecture***
Beijing Key Lab. of Robot Bionics and Function Research
Chenxi Zhang, ***Beijing Univ. of Civil Engineering and Architecture***
Beijing Key Lab. of Robot Bionics and Function Research

Session	***SunC14: Smart Grids (IV)***
Date/Time	Sunday, 29 May 2016 / 15:50-17:50
Venue	Room 14
Chair	***Qiang Zhao***, ***Northeastern Univ.***
Co-Chair	***Yunzhi Qiu***, ***Tianjin Univ. of Tech.***

15:50-16:10 ***SunC14-1*** ***Multi-Objective Security-Constrained Unit Commitment Model Considering Wind Power and EVs*** 3650
Haiyong Liu, ***Northeastern Univ.***
Qiang Zhao, ***Northeastern Univ.***
Jinkuan Wang, ***Northeastern Univ.***
Yinghua Han, ***Northeastern Univ.***
Xiaolong Qian, ***Northeastern Univ.***

16:10-16:30 ***SunC14-2*** ***A Study on the Capacity of Shunt Hybrid Active Power Filter*** 3656
Zhiqiang Gao, ***Tianjin Univ. of Tech.***
Yunzhi Qiu, ***Tianjin Univ. of Tech.***
Xuesong Zhou, ***Tianjin Univ. of Tech.***
Youjie Ma, ***Tianjin Univ. of Tech.***
Yanjuan Wu, ***Tianjin Univ. of Tech.***
Jinliang Yin, ***Tianjin Univ. of Tech.***
Xiaoning Xu, ***Tianjin Univ. of Tech.***

16:30-16:50 ***SunC14-3*** ***Intelligent Distribution Network in the New Situation*** 3661
Xuesong Zhou, ***Tianjin Univ. of Tech.***
Mingpeng Sun, ***Tianjin Univ. of Tech.***
Youjie Ma, ***Tianjin Univ. of Tech.***
Zhiqiang Gao, ***Tianjin Univ. of Tech.***
Yanjuan Wu, ***Tianjin Univ. of Tech.***
Jinliang Yin, ***Tianjin Univ. of Tech.***
Xiaoning Xu, ***Tianjin Univ. of Tech.***

16:50-17:10 ***SunC14-4*** ***An Overview on Distribution Automation System*** 3667
Xuesong Zhou, ***Tianjin Univ. of Tech.***
Pengda Xiang, ***Tianjin Univ. of Tech.***
Youjie Ma, ***Tianjin Univ. of Tech.***
Zhiqiang Gao, ***Tianjin Univ. of Tech.***
Yanjuan Wu, ***Tianjin Univ. of Tech.***
Jinliang Yin, ***Tianjin Univ. of Tech.***
Xiaoning Xu, ***Tianjin Univ. of Tech.***

17:10-17:30 ***SunC14-5*** ***A Robust Economic Dispatch of Residential Microgrid with Wind Power and Electric Vehicle Integration*** 3672
Ruifeng Shi, ***North China Electric Power Univ.***
Changhao Sun, ***North China Electric Power Univ.***
Zhenyu Zhou, ***North China Electric Power Univ.***
Li Zhang, ***The Ministry of Science and Tech.***
Zihang Liang, ***North China Electric Power Univ.***

17:30-17:50 ***SunC14-6*** ***Based on Curve Fitting Method to Analyze and Calculate the Equalizing Resistance of Sub-modules in Series of MMC System*** 3677
Longfei Luo, ***Xi'an Jiaotong Univ.***
Hui Cao, ***Xi'an Jiaotong Univ.***
Dapeng Yan, ***Xi'an Jiaotong Univ.***
Yanbin Zhang, ***Xi'an Jiaotong Univ.***

Session	**SunCIS: Interactive Session**
Date/Time	Sunday, 29 May 2016 / 15:50-17:50
Venue	Room 15

SunCIS-01 ***Plantwide Control for the Electricity Power Demand Control System*** 3682
Fei Hao, ***NR Electric Co., LTD***
Zhen Yuan, ***NR Electric Co., LTD***
Genjun Chen, ***NR Electric Co., LTD***
Quan Gu, ***NR Electric Co., LTD***

SunCIS-02 ***The Debugging Research of Large Shipboard Antenna Servo System Simulation Platform*** 3687
Yongjiang Sun, ***China Satellite Maritime Tracking & Control Department***
Xin Wang, ***China Satellite Maritime Tracking & Control Department***
Huasong Jin, ***China Satellite Maritime Tracking & Control Department***
Jiancheng Yu, ***China Satellite Maritime Tracking & Control Department***
Kai Yao, ***China Satellite Maritime Tracking & Control Department***

SunCIS-03 ***Research on Event-B based formal modeling and verification of automatic production line*** 3690
Kaiming Fu, ***Beijing Univ. of Tech.***
The Ministry of Education P.R.C. Engineering Research Center of Digital Community
Beijing Laboratory for Urban Mass Transit
Beijing Key Laboratory of Computational Intelligence and Intelligent System
Bin Fang, ***Beijing Univ. of Tech.***
The Ministry of Education P.R.C. Engineering
Research Center of Digital Community
Beijing Laboratory for Urban Mass Transit
Beijing Key Laboratory of Computational Intelligence and Intelligent System
Yafen Li, ***Beijing Univ. of Tech.***
The Ministry of Education P.R.C. Engineering
Research Center of Digital Community
Beijing Laboratory for Urban Mass Transit
Beijing Key Laboratory of Computational Intelligence and Intelligent System
Huijie Li, ***Beijing Univ. of Tech.***
The Ministry of Education P.R.C. Engineering
Research Center of Digital Community
Beijing Laboratory for Urban Mass Transit
Beijing Key Laboratory of Computational Intelligence and Intelligent System

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Shiming Ji, ***Zhejiang Univ. of Tech.***
Wei Wei, ***Zhejiang Univ. of Tech.***
Zhejiang Univ. of Water Resources and Electric Power
Mingsheng Jin, ***Zhejiang Univ. of Tech.***
Ye Pan, ***Zhejiang Univ. of Tech.***
Xihuan Huang, ***Zhejiang Univ. of Tech.***

SunCIS-05 ***Intelligent fault diagnosis technology based on hybrid algorithm*** 3702
Yi Chen, ***Nantong Univ.***
Yi Yang, ***Nantong Univ.***
Junhong Li, ***Nantong Univ.***
Yanjuan Lu, ***Nantong Univ.***
Ye Zhang, ***Nantong Univ.***

SunCIS-06 ***Research on Distributed Emergency Resource Scheduling System Based on Internet of Things*** 3707
Lei Wang, ***National Police Univ. of China***
Beihang Univ.

SunCIS-07 ***Low-light Video Image Enhancement Based on Multiscale Retinex-like Algorithm*** 3712
Huijie Liu, ***Shanghai Univ. of Engineering Sciences***
Xiankun Sun, ***Shanghai Univ. of Engineering Sciences***
Hua Han, ***Shanghai Univ. of Engineering Sciences***
Wei Cao, ***Shanghai Univ. of Engineering Sciences***

SunCIS-08 ***Integrated attitude control with momentum management for spacecraft electromagnetic docking*** 3716
Yuanwen Zhang, *National Univ. of Defense Tech.*
Leping Yang, *National Univ. of Defense Tech.*
Yanwei Zhu, *National Univ. of Defense Tech.*
Honjun Ao, *National Univ. of Defense Tech.*
Dawei Qi, *National Univ. of Defense Tech.*

SunCIS-09 ***Analysis of Reaction-Wheels Imbalance Torque Effects on Satellite Attitude Control system*** 3722
Dongbai Li, *Harbin Inst. of Tech.*
Xueqin Chen, *Harbin Inst. of Tech.*
Baolin Wu, *Harbin Inst. of Tech.*

SunCIS-10 ***Robust Composite Controller Design for Flexible Spacecraft Attitude Maneuver*** 3726
Long Zhang, *Taiyuan Satellite Launch Center*

SunCIS-11 ***Observer-based Impulsive Stabilization for Spacecraft Rendezvous*** 3732
Ruixia Liu, *Harbin Inst. of Tech.*
Ming Liu, *Harbin Inst. of Tech.*
Dong Ye, *Harbin Inst. of Tech.*
Lei Xing, *Harbin Inst. of Tech.*

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Yizuo Zhang, *Shanghai Jiaotong Univ.*
Weidong Zhang, *Shanghai Jiaotong Univ.*

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Tingting Wang, *Hohai Univ.*
Weiwei Zhang, *Hohai Univ.*

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Yuntao Shi, *North China Univ. of Tech.*
Hengjie Zhu, *North China Univ. of Tech.*
Xiang Xiang, *North China Univ. of Tech.*
Dehui Sun, *North China Univ. of Tech.*

SunCIS-15 ***Application Research on the Synchronization Strategy of both Independent and Double-Cross Methods in the Air-Bearing Linear Stages of a Lithographic Machine*** N/A
Zhenbin Wang, *Shanghai Micro Electronics Co., Ltd.*
Xiaofeng Yang, *Fudan Univ.*

SunCIS-16 ***Variable Tap-length LMS Algorithm with Variable Tap-length Adaptation Step size*** 3748
Ying Wei, *Harbin Inst. of Tech.*
Zhibin Yan, *Harbin Inst. of Tech.*

SunCIS-17 ***An orthogonal Matching Pursuit Algorithm Optimization Design Based On FPGA Implementation*** 3752
Jiyang Dai, *Nanchang Hangkong Univ.*
Huazhu Luo, *Nanchang Hangkong Univ.*
Pei Shen, *Nanchang Hangkong Univ.*
Lizhou Xu, *Nanchang Hangkong Univ.*

SunCIS-18 ***Based on principal component analysis odor character classification and application*** 3757
Lei Wu, *Inner Mongolia Univ. of Tech.*
Jiandong Fang, *Inner Mongolia Univ. of Tech.*
Yudong Zhao, *Inner Mongolia Agriculture and Animal Husbandry Information Center*

SunCIS-19 ***Design and implementation of multi-parameter portable biological information measurement system*** 3762
Jinchuang Zhao, *Univ. of Guangxi*
Hao Zhang, *Univ. of Guangxi*
Wenli Fu, *Univ. of Guangxi*
Xingxing Zou, *Univ. of Guangxi*

SunCIS-20 ***Mill Sound Detection Based On Signal Singular Entropy Noise Reduction*** 3766
Shufen Qi, *Qingdao Univ. of Science & Tech.*
Jinghong Zhao, *Qingdao Univ. of Science & Tech.*
Xiaojie Liu, *Qingdao Univ. of Science & Tech.*

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Zhiyan Han, *Bohai Univ.*
Jian Wang, *Bohai Univ.*

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Li Kong, *Huazhong Univ. of Science and Tech.*
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Hao Pan, *Huazhong Univ. of Science and Tech.*

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Guodong Liu, *Shanghai Jiaotong Univ.*
Key Laboratory of System Control and Information Processing
Sha Liu, *Shanghai Inst. of Spaceflight Control Tech.*
Jianxun Li, *Shanghai Jiaotong Univ.*
Key Laboratory of System Control and Information Processing

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Qian Xiao, *Shenyang Univ.*
Feifei Li, *Shenyang Univ.*
Zhipeng Zhao, *Shenyang Univ.*

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Shuo Yang, *Shanghai Jiaotong Univ.*
Hongliang Chen, *Luoyang Inst. of Electro-optical Equipment, AVIC*
Jianxun Li, *Shanghai Jiaotong Univ.*
Wei Wang, *Unit 63636, PLA*

SunCIS-26 ***Optimization Method of Parallel Processing for Remote Sensing Image Cloud Detection*** 3795
Zhao Li, *Shandong Univ. of Tech.*
Yede Li, *Shandong Univ. of Tech.*
Mingliang Gao, *Shandong Univ. of Tech.*

SunCIS-27 ***Finger detection and gesture recognition method based on the device*** N/A
CHI Jiannan, *Univ. of Science and Tech. Beijing*
WANG Xingran, *Univ. of Science and Tech. Beijing*
LI Huatong, *Univ. of Science and Tech. Beijing*

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Ying Guan, *Northeastern Univ. at Qinhuangdao*
Dongsheng La, *Northeastern Univ. at Qinhuangdao*
Jing Gao, *Northeastern Univ. at Qinhuangdao*

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Jun Zhang, *Zhejiang Univ. of Tech.*
Lili Wu, *Zhejiang Univ. of Tech.*
Guangkuo Lin, *Zhejiang Univ. of Tech.*
Yun Cheng, *Zhejiang Hospital*

SunCIS-30 ***A Bat-inspired Particle Filter for Visual Tracking Mingliang Gao Shandong Univ. of Tech.*** 3810
Yuanru Zang, *Shandong Univ. of Tech.*
Shuzhi Zhao, *Shandong Univ. of Tech.*
Zhao Li, *Shandong Univ. of Tech.*

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Feing Xiao, *Liaoning Provincial Radio and Television Transmission Center*

SunCIS-32 ***Low Rank Sparse Preserve Projection for Face Recognition*** 3822
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Wenbin Yu, *Shanghai Jiaotong Univ.*
Cailian Chen, *Shanghai Jiaotong Univ.*
Xinping Guan, *Shanghai Jiaotong Univ.*

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Xu Li, *Northwestern Polytechnical Univ.*

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Yurong Huo, *Academy of Equipment*
Zhi Li, *Academy of Equipment*
Lei Han, *Academy of Equipment*

SunCIS-36 ***The application of multi sensor data fusion based on the improved BP neural network algorithm*** 3842
Bangcheng Zhang, *Changchun Rail Way Vehicles Co., Ltd.*
Changchun Univ. of Tech.
Jianqiao Lin, *Changchun Univ. of Tech.*
Zhenchen Chang, *Changchun Rail Way Vehicles Co., Ltd.*
Xiaojing Yin, *Changchun Univ. of Tech.*
Zhi Gao, *Changchun Univ. of Tech.*

SunCIS-37 ***Multi-document Summarization Algorithm based on Significance Sentences*** 3847
Na Liu, ***Dalian Polytechnic Univ.***
Ying Lu, ***Dalian Polytechnic Univ.***
Xiaojun Tang, ***Dalian Polytechnic Univ.***
Haiwen Wang, ***Dalian Polytechnic Univ.***
Peng Xiao, ***Dalian Polytechnic Univ.***
Mingxia Li, ***Dalian Polytechnic Univ.***

SunCIS-38 ***Improved k-means clustering based on Efros distance for longitudinal data*** 3853
Yanhui Sun, ***Beijing Univ. of Tech.***
Engineering Research Center of Digital Community
Beijing Laboratory for Urban Mass Transit
Liying Fang, ***Beijing Univ. of Tech.***
Engineering Research Center of Digital Community
Beijing Laboratory for Urban Mass Transit
Pu Wang, ***Beijing Univ. of Tech.***
Engineering Research Center of Digital Community
Beijing Laboratory for Urban Mass Transit

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Deqiang Han, ***Xi'an Jiaotong Univ.***
Jiankun Ding, ***Xi'an Jiaotong Univ.***

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Tianhao Gu, ***Qingdao Univ. of Science and Tech.***
Junge Leng, ***Qingdao Univ. of Science and Tech.***
Sha Xi, ***Qingdao Univ. of Science and Tech.***
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Jia Ren, ***Zhejiang Sci-Tech. Univ.***
Yisha Ye, ***Zhejiang Sci-Tech. Univ.***
Haiyan Ren, ***Zhejiang Sci-Tech. Univ.***

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Weilan Wang, ***Northwest Univ. for Nationalities***

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Chunshan Yang, ***Heilongjiang Univ.***
Heilongjiang Coll. of Business and Tech.
Zhibo Yang, ***Heilongjiang Univ.***
Zili Deng, ***Heilongjiang Univ.***

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Heilongjiang Univ. of Science and Tech.
Xuemei Wang, *Heilongjiang Univ.*
Zili Deng, *Heilongjiang Univ.*

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Yuchen Wang, *Shanghai Jiaotong Univ.*
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Yan Liu, *Beijing Normal Univ.*
Fusheng Yu, *Beijing Normal Univ.*
Jie Ma, *Laboratory of Mathematics and Complex Systems*

SunCIS-49 ***A Multiple Attribute Decision Algorithm for Single-Object Benchmark*** 3912
Cheng Zhen, *Shanghai Jiaotong Univ.*
Sha Liu, *Shanghai Inst. of Spaceflight Control Tech.*
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Luoyang Electronic Equipment Test Center of China
Jianxun Li, *Shanghai Jiaotong Univ.*

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Xingjun Liu, *Tianjin Polytechnic Univ.*
Mei Han, *Tianjin Polytechnic Univ.*

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Hongliang Chen AVIC
Zhangyuan Gu, *Shanghai Jiaotong Univ.*
Jianxun Li, *Shanghai Jiaotong Univ.*

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Zhibo Yang, *Heilongjiang Univ.*
Beihua Univ.
Chunshan Yang, *Heilongjiang Univ.*
Zili Deng, *Heilongjiang Univ.*

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Minlei Wei, *Northeastern Univ.*
Ying Bao, *Northeastern Univ.*
Wei Zhang, *Northeastern Univ.*

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Gang Chen, *China Academy of Engineering Physics*
Baoran An, *China Academy of Engineering Physics*
Yan Liu, *China Academy of Engineering Physics*

SunCIS-55 ***Research on PSOGA Particle Filter Video Object Tracking Algorithm Based on Local Multi-zone*** 3949
Feng Xiao, *Liaoning Provincial Radio and Television Transmission Center*

SunCIS-56 ***Graph Regularized Compact Self-representative Decomposition for Image Representation*** 3955
Shiqiang Du, ***Northwest Univ. for Nationalities***
Lanzhou Univ.
Weilan Wang, ***Northwest Univ. for Nationalities***
Yide Ma, ***Lanzhou Univ.***

SunCIS-57 ***Research and Analysis of Hyperspectral Remote Sensing Image Classification Algorithms*** 3960
Rong Ren, ***Beifang Univ. of Nationalities***

SunCIS-58 ***Study on Speech Endpoint Detection Algorithm Based on Wavelet Energy Entropy*** 3965
Yali Cao, ***Northeastern Univ. at Qinhuangdao***
Jing Gao, ***Northeastern Univ. at Qinhuangdao***
Gaung Yang, ***Northeastern Univ. at Qinhuangdao***

SunCIS-59 ***Study on the Critical Nondeposit Velocity in Slurry Pipeline Based on Suspended Load Energy Consumption Theory*** 3970
Mingxian Wang, ***Kunming Univ. of Science and Tech.***
Jiande Wu, ***Kunming Univ. of Science and Tech.***
Engineering Research Center for Mineral Pipeline Transportaion YN
Xiaodong Wang, ***Kunming Univ. of Science and Tech.***
Engineering Research Center for Mineral Pipeline Transportaion YN

SunCIS-60 ***A Dynamic Speed Guidance Model based on Cooperative Vehicle Infrastructure System*** 3974
Pangwei Wang, ***North China Univ. of Tech.***
Hefeng Zhao, ***North China Univ. of Tech.***
Li Wang, ***North China Univ. of Tech.***
Zhonghe He, ***North China Univ. of Tech.***
Dan Wu, ***North China Univ. of Tech.***

SunCIS-61 ***Fault Monitoring Method of Expert Prior Knowledge Learning Based on Regularization Architecture*** 3980
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Yingwei Zhang, ***Northeastern Univ.***
Yunpeng Fan, ***Northeastern Univ.***

SunCIS-62 ***RBF Neural Network Based Adaptive Constrained PID Control of a Solid Oxide Fuel Cell*** 3986
Dezhi Xu, ***Jiangnan Univ.***
Wenxu Yan, ***Jiangnan Univ.***
Nan Ji, ***Jiangnan Univ.***

SunCIS-63 ***Research on the Optimization and Distribution Technology of Industrial Water*** 3992
Chao Dong, ***Tianjin Univ. of Tech.***
Muyuan Zhao, ***Tianjin Univ. of Tech.***
Hongpeng Li, ***Tianjin Univ. of Tech.***

SunCIS-64 ***A Distributed Management System for Lithium Ion Battery Pack*** 3997
Ping Liu, ***Wuhan Univ. of Tech.***
Honghui Zhu, ***Wuhan Univ. of Tech.***
Jie Chen, ***Wuhan Univ. of Tech.***
Guanyan Li, ***Wuhan Univ. of Tech.***

SunCIS-65 ***Closed Loop Management of PFMEA Combined with WBS*** 4003
Jing Xue, ***Beihang Univ.***
Min Huang, ***Beihang Univ.***

	SunCIS-66	***Research on Knowledge Maps of Life Cycle Cost Control Based on Roles*** 4009 Qinglan Han, *Central South Univ.* Gai Guo, *Central South Univ.* Lan Gao, *Central South Univ.*
	SunCIS-67	***PSO and Genetic Algorithm Optimization BP Neural Network Contrast in Collaboration Innovation Performance Evaluation*** 4014 Junjie Xin, *Zhejiang Univ. City Coll.* Mingyang Zhang, *Zhejiang Univ. City Coll.* Xuejie Wang, *Zhejiang Univ. City Coll.*
Session	***MonA01: Adaptive Control (IV)(Chinese)***	
Date/Time	Monday, 30 May 2016 / 8:00-10:00	
Venue	Room 01	
Chair	***Hongwei Wang***, *Dalian University of Tech.*	
Co-Chair	***Dejun Bian***, *National University of Defense Tech.*	
8:00-8:20	***MonA01-1***	***MRAC for Nonlinear Systems with Unknown Gain Signs and Unmodeled Dynamics*** 4019 Ningning Wang, *Yangzhou Univ.* Tianping Zhang, *Yangzhou Univ.* Hongchun Li, *Yangzhou Polytechnic Inst.* Meizhen Xia, *Yangzhou Univ.*
8:20-8:40	***MonA01-2***	***Self-Tuning Control Scheme of Non-Uniformly Sampled Data Systems with Time Delay and Unknown Colored Noise*** 4025 Hongwei Wang, *Dalian University of Tech.* Hao Xia, *Dalian University of Tech.*
8:40-9:00	***MonA01-3***	***Adaptive synchronization of the fractional order chaotic system based on passive control*** 4031 Zhuxiang Dai, *Nanjing University of Information Scie. & Tech.* Tao Li, *Nanjing University of Information Scie. & Tech. Collaborative Innovation Center on Atmospheric Environment and Equipment Tech.* Wenwen Yu, *Nanjing University of Information Scie. & Tech.*
9:00-9:20	***MonA01-4***	***Learning from Adaptive Neural Control of Manipulator Using an ISS-Modular Approach*** 4036 Anle Yang, *South China University of Tech.* Min Wang, *South China University of Tech.*
9:40-10:00	***MonA01-6***	***A hybrid AR-DWT-EMD model for the short-term prediction of nonlinear and non-stationary ship motion*** 4042 Dejun Bian, *National University of Defense Tech.* Shiqiao Qin, *National University of Defense Tech.* Wei Wu, *National University of Defense Tech.*

Session	***MonA02: Robust Control (IV) (Chinese)***
Date/Time	Monday, 30 May 2016 / 8:00-10:00
Venue	Room 02
Chair	***Defeng He***, ***Zhejiang University of Tech.***
Co-Chair	***Kun Ni***, ***Beihang Univ.***

8:00-8:20	***MonA02-1***	***Overlapping Robust Decentralized Connective Stabilization for Interconnected Systems with Loop Structure via Dynamic State Feedback*** 4048 Yang Liu, ***Northeastern Univ.*** Xiaohua Li, ***University of Scie. and Tech. Liaoning*** Yuanwei Jing, ***Northeastern Univ.*** Nan Jiang, ***Northeastern Univ.***
8:20-8:40	***MonA02-2***	***Direct Yaw-moment Control of Vehicle Stability Based on Robust Sliding Mode Observer*** 4054 Niaona Zhang, ***Changchun University of Tech.*** ***Jilin Univ.*** Congcong Cao, ***Changchun University of Tech.*** Caimao Xu, ***Changchun University of Tech.*** Wenling Yan, ***Changchun University of Tech.***
8:40-9:00	***MonA02-3***	***Input-to-State Stable MPC Algorithms for Constrained LPV Systems*** 4060 Defeng He, ***Zhejiang University of Tech.*** Yu Sun, ***Zhejiang University of Tech.*** Hongjie Ni, ***Zhejiang University of Tech.***
9:00-9:20	***MonA02-4***	***Robust Model Predictive Control of Uncertain Discrete-Time T-S Fuzzy Systems*** 4066 Haofei Xie, ***Ministry of Education.*** ***Chongqing University of Posts and Telecommunications*** Jun Wang, ***Ministry of Education.*** ***Chongqing University of Posts and Telecommunications*** Xiaoming Tang, ***Ministry of Education.*** ***Chongqing University of Posts and Telecommunications***
9:20-9:40	***MonA02-5***	***Robustness Optimization Approach for Hypersonic Vehicle Controller Based on Parallel Computing*** 4072 Kun Ni, ***Beihang Univ.*** Qingzhen Zhang, ***Beihang Univ.*** Lin Cheng, ***Beihang Univ.***
9:40-10:00	***MonA02-6***	***Observer-based Robust Switching Control of Switched Fuzzy Time-delay Systems*** 4079 Hong Yang, ***Shenyang Univ.*** Le Zhang, ***Shenyang Univ.*** Guannan Tao, ***Shenyang Univ.***

Session	***MonA03: Complex Networks and Systems (III) (Chinese)***
Date/Time	Monday, 30 May 2016 / 8:00-10:00
Venue	Room 03
Chair	***Lang Cao***, *Zhengzhou Univ.*
Co-Chair	***Xiwei Liu***, *Tongji Univ. The Key Laboratory of Embedded System and Service Computing*

8:00-8:20 ***MonA03-1*** ***Time Synchronization of Wireless Sensor Networks with Stochastic Switching Topology*** 4085
Haian Yin, *Southeast Univ.*
Wen Xie, *Nanjing Housing Provident Fund Management Center*
He Wang, *Southeast Univ.*

8:20-8:40 ***MonA03-2*** ***Finite-time Cluster Synchronization of Complex Networks With Time-Varying Delays*** 4091
Xiwei Liu, *Tongji Univ.*
The Key Laboratory of Embedded System and Service Computing
Shaohua Li, *Tongji Univ.*

8:40-9:00 ***MonA03-3*** ***Roles of shortcuts in the diffusion process over hierarchical networks*** 4097
Lang Cao, *Zhengzhou Univ.*
Xun Li, *Fudan Univ.*

9:00-9:20 ***MonA03-4*** ***Bifurcation Analysis in A Delayed Fractional Cohen-Grossberg Network*** 4103
Chengdai Huang, *Southeast Univ.*
Jinde Cao, *Southeast Univ.*
King Abdulaziz Univ.

9:20-9:40 ***MonA03-5*** ***Research on the Method of Detecting Small Single-Frequency Cycle-Slips Based on EEMD-HT of BDS*** 4108
Kaiqiang Yu, *Kunming Univ. of Science and Tech.*
Guoyong Huang, *Kunming Univ. of Science and Tech.*
Engineering Research Center for Mineral Pipeline Transportation YN
Yang Gao, *Engineering Research Center for Mineral Pipelinec Transportation YN*

9:40-10:00 ***MonA03-6*** ***Coarse Graining of Complex Networks: A k-means Clustering Approach*** 4113
Shuang Xu, *Henan Univ.*
Pei Wang, *Henan Univ.*

Session	***MonA04: Nonlinear Systems (IV) (Chinese)***
Date/Time	Monday, 30 May 2016 / 8:00-10:00
Venue	Room 04
Chair	***Lianchun Wang***, *National Univ. of Defense Tech.*
Co-Chair	***Qianqian Xia***, *Nankai Univ.*

8:00-8:20 ***MonA04-1*** ***The Underlying Principles of Self-Excited Vibration in Maglev Vehicle-Bridge Coupled System*** 4119
Lianchun Wang, *National Univ. of Defense Tech.*
Jinhui Li, *Science and Tech. on Near-Surface Detection Laboratory*
Danfeng Zhou, *National Univ. of Defense Tech.*
Jie Li, *National Univ. of Defense Tech.*

8:20-8:40	***MonA04-2***	***Control Systems of Second-order Type Induced by Lifting*** 4125 Xia Qianqian, ***Nankai Univ.***
8:40-9:00	***MonA04-3***	***Stability analysis and controller synthesis for non-linear quadratic systems with time delay*** 4130 Jin Gao, ***Shanxi Normal Univ.*** Shugui Kang, ***Shanxi Datong Univ.*** Fu Chen, ***Shanxi Datong Univ.***
9:00-9:20	***MonA04-4***	***Robust Global Asymptotic Position Stabilization for Uncertain Underactuated Surface Vessels Without Velocity Measurement*** 4135 Wenjing Xie, ***Southwest Univ.*** Lixia Yan, ***Beihang Univ.*** Baoli Ma, ***Beihang Univ.***
9:20-9:40	***MonA04-5***	***High-order Nonsingular Terminal Sliding Mode Control of Wind Energy Conversion Systems*** 4141 Jianyong Li, ***Zhengzhou Univ. of Light Industry*** Yanhong Liu, ***Zhengzhou Univ.*** Huige Shi, ***State Grid Nanyang Electric Power Supply Company*** Xiushan Cai, ***Zhejiang Normal Univ.***
9:40-10:00	***MonA04-6***	***Finite-time Guaranteed Cost Control for Uncertain Lipschitz Nonlinear System with Time-Delay*** 4147 Xia Chen, ***Anhui Univ.*** Shuping He, ***Anhui Univ.***

Session	***MonA05: Decision-Making Theory And Method (IV) (Chinese)***
Date/Time	Monday, 30 May 2016 / 8:00-10:00
Venue	Room 05
Chair	***Hongyu Zhang***, ***Central South Univ.***
Co-Chair	***Yun Wang***, ***Dalian Naval Academy***

8:00-8:20	***MonA05-1***	***A Subsethood Measure with the Hausdorff Distance for Interval Neutrosophic Sets and its Relations with Similarity and Entropy Measures*** 4152 Pu Ji, ***Central South Univ.*** Hongyu Zhang Central South Univ.
8:20-8:40	***MonA05-2***	***A Modified Firefly Algorithm for Fuzzy Portfolio Optimization Model*** 4158 Yun Wang, ***Dalian Naval Academy*** Wei Chen, ***Dalian Naval Academy***
8:40-9:00	***MonA05-3***	***Investment Decision Using D Numbers*** 4164 Xiaozhong Huang, ***Hubei Univ. for Nationalities*** Ningkui Wang, ***Hubei Univ. for Nationalities*** Daijun Wei, ***Hubei Univ. for Nationalities*** ***Key Laboratory of Biologic Resources Protection and Utilization of Hubei Province***
9:00-9:20	***MonA05-4***	***Forecasting of dissolved gas in transformer oil by optimized nonlinear Grey Bernoulli Markov model*** 4168 Heng Ma, ***Kunming Univ. of Tech. and Science*** Hua Lai, ***Kunming Univ. of Tech. and Science*** Meng Wang, ***Kunming Univ. of Tech. and Science***
9:20-9:40	***MonA05-5***	***A rule based case maintenance method for the performance of CBR classifier*** 4174 Hui Zhao, ***Tsinghua Univ.***

Liangshun Wang Tsinghua Univ.
Wei Dong, ***Tsinghua Univ.***
Xinya Sun, ***Tsinghua Univ.***
Yindong Ji, ***Tsinghua Univ.***

9:40-10:00 ***MonA05-6*** ***Rational Expectation and Information Leakage with Imperfect Competition*** 4180
Binbin Chen, ***Beihang Univ.***
Shancun Liu, ***Beihang Univ.***

Session	***MonA06: DDCLS-Iterative Learning Control (I)***
Date/Time	Monday, 30 May 2016 / 8:00-10:00
Venue	Room 06
Chair	***Deqing Huang***, ***Southwest Jiaotong Univ.***
Co-Chair	***Chiang-Ju Chien***, ***Huafan Univ.***

8:00-8:15 ***MonA06-1*** ***2-D H 8 Based Iterative Learning Control Design for Linear Discrete-Time Uncertain Systems with Multiple High Order Internal Models*** 4185
Qiao Zhu, ***Southwest Jiaotong Univ.***
Jian-Xin Xu, ***National Univ. of Singapore***
Deqing Huang, ***Southwest Jiaotong Univ.***
Neng Xiong, ***Southwest Jiaotong Univ.***

8:15-8:30 ***MonA06-2*** ***On Adaptive Iterative Learning From Tracking Tasks with Different Magnitude and Time Scales*** 4191
Xuefang Li, ***National Univ. of Singapore***
Jian-Xin Xu, ***National Univ. of Singapore***

8:30-8:45 ***MonA06-3*** ***Study of a Class of Sampled-Data ILC from the Point of Performance Improvement and Memory Capacity*** 4197
Chiang-Ju Chien, ***Huafan Univ.***
Ya-Syuan Shu, ***Huafan Univ.***

8:45-9:00 ***MonA06-4*** ***Iterative Learning Control for Biped Walking Robot with Varying Iteration Lengths*** 4203
Wei Zhang, ***Beijing Univ. of Chemical Tech.***
Lanjing Wang, ***Beijing Univ. of Chemical Tech.***
Dong Shen, ***Beijing Univ. of Chemical Tech.***

9:00-9:15 ***MonA06-5*** ***Robust Quantized ILC design for Linear Systems Using a 2-D Model*** 4209
Yanling Yin, ***Henan Polytechnic Univ.***
Xuhui Bu, ***Henan Polytechnic Univ.***
Shuaike Yan, ***Henan Polytechnic Univ.***
Jian Liu, ***Henan Polytechnic Univ.***

9:15-9:30 ***MonA06-6*** ***Application of Iterative Learning Tuning to a Dragonfly-like Flapping Wing Micro Aerial Vehicle*** 4215
Chang-ping Du, ***Zhejiang Univ.***
National Univ. of Singapore
Jian-xin Xu, ***National Univ. of Singapore***
Yao Zheng, ***Zhejiang Univ.***

9:30-9:45	***MonA06-7***	***Gene Selection for Cancer Classification Using Improved Group Lasso*** 4221 Juntao Li, *Henan Normal Univ.* Wenpeng Dong, *Henan Normal Univ.* Deyuan Meng, *Beihang Univ.* Huimin Xiao, *Henan Univ. of Economics and Law*
9:45-10:00	***MonA06-8***	***Bidirectional joint torque prediction with EMG of multiple channels: both agonist and antagonist muscles are necessary*** 4226 Zhan Li, *Univ. of Electronic Science and Tech. of China* Jing Guo, *Univ. of Montpellier* Deqing Huang, *Southwest Jiaotong Univ.*

Session	***MonA07: DDCLS-Iterative Learning Control (II)***
Date/Time	Monday, 30 May 2016 / 8:00-10:00
Venue	Room 07
Chair	
Co-Chair	

8:00-8:15	***MonA07-1***	***Iterative Learning Control for Switched Linear Parabolic Systems in SpaceW1,2*** 4232 Panpan Gu, *Suzhou Univ. of Science and Tech.* Qin Fu, *Suzhou Univ. of Science and Tech.* Xiangdong Li, *Suzhou Univ. of Science and Tech.*
8:15-8:30	***MonA07-2***	***High Order Internal Model Iterative Learning Control for Impulsive Differential Systems*** 4237 Zijian Luo, *GuiZhou Univ.* Jinrong Wang, *GuiZhou Univ.* Wei Wei, *GuiZhou Univ.* *Guizhou Minzu Univ.*
8:30-8:45	***MonA07-3***	***Velocity Tracking Control of Wheeled Mobile Robots by Fuzzy Adaptive Iterative Learning Control*** 4242 Xiaochun Lu, *Hohai Univ.* Juntao Fei, *Hohai Univ.* *Jiangsu Key Lab. of Power Transmission & Distribution Equipment Tech.*
8:45-9:00	***MonA07-4***	***Logarithmic Error Approach to D-type Iterative Learning Control for SISO-Bilinear Systems*** 4248 Bing Chen, *Guangxi Univ. of Science and Tech.* Xisheng Dai, *Guangxi Univ. of Science and Tech.* *Guilin Univ. of Electronic Tech.* Senping Tian, *South China Univ. of Tech.* Guang Li, *Guilin Univ. of Electronic Tech.*
9:00-9:15	***MonA07-5***	***A Class of Second Order Strong Hyperbolic Distributed Parameter Systems for Iterative Learning Control*** 4252 Jianhuan Su, *Hechi Univ.* Yinjun Zhang, *Hechi Univ.* *Air Force Engineering Univ.* Yinghui Li, *Air Force Engineering Univ.*

9:15-9:30	***MonA07-6***	***Global State-feedback Control for a Class of High-order Stochastic Upper-triangular Systems with Input Time-varying Delay*** 4257 Liang Liu, *Bohai Univ.* *Nanjing Univ. of Science and Tech.* Yifan Zhang, *Bohai Univ.*
9:45-10:00	***MonA07-8***	***A Closed-loop PD-type Iterative Learning Algorithm for Discrete Singular Systems*** 4262 Youqiang Zhang, *South China Univ. of Tech.* Qian Liu, *South China Univ. of Tech.* Senping Tian, *South China Univ. of Tech.* Yanbo Luo, *South China Univ. of Tech.*

Session	***MonA08: Computer Games (I) (Invited Session)***
Date/Time	Monday, 30 May 2016 / 8:00-10:00
Venue	Room 08
Chair	***Xinhe Xu***, *Northeastern Univ.*
Co-Chair	***Yajie Wang***, *Shenyang Aerospace Univ.*

8:00-8:20	***MonA08-1***	***The Design and Implementation of Tibetan-go Game Software*** 4266 Xinyang Wang, *Minzu Univ. of China* Xiali Li, *Minzu Univ. of China* Licheng Wu, *Minzu Univ. of China*
8:20-8:40	***MonA08-2***	***Design and implementation of personalized interface of Chinese army chess*** 4271 Shuqin Li, *Computer Coll. of Beijing Info. Science and Tech. Univ.* Xiaohua Yuan, *Shanghai Oceanic Univ.* Kai Cao, *Computer Coll. of Beijing Info. Science and Tech. Univ.*
8:40-9:00	***MonA08-3***	***Application and Design of Advanced Algorithms in NoGo Game of Computer Games*** 4275 Jun Tao, *Jianghan Univ.* Gui Wu, *Jianghan Univ.*
9:00-9:20	***MonA08-4***	***Design and Application of Machine Learning Algorithm Computer in Connect6 of Computer Games System*** 4279 Gui Wu, *Jianghan Univ.* Jun Tao, *Jianghan Univ.* *Rowan Univ.*
9:20-9:40	***MonA08-5***	***Study on System Modeling and Optimization of Static Evaluation Based on the Computer Game of Draughts*** 4283 Youru Li, *Shenyang Aerospace Univ.* Xueping Liu, *Shenyang Aerospace Univ.* Hekai Zhang, *Shenyang Aerospace Univ.* Yuting Xi, *Shenyang Aerospace Univ.*
9:40-10:00	***MonA08-6***	***Using Heuristic Solver to Optimize Monte Carlo Tree Search in Dots-And-Boxes*** 4288 Junkai Lu, *Shenyang Aerospace Univ.* Hang Yin, *Shenyang Aerospace Univ.*

Session	***MonA09: Control Applications (V)***
Date/Time	Monday, 30 May 2016 / 8:00-10:00
Venue	Room 09
Chair	***Yunlong Li***, ***Chinese Academy of Sciences***
Co-Chair	***Qibo Chu***, ***Shenyang Univ. of Tech.***

8:00-8:20 ***MonA09-1*** ***FO Based-LQR Stabilization of the Rotary Inverted Pendulum*** 4292
Arturo Rojas-Moreno, ***Univ. de Ingenieria y Tecnologia***
Juan Hernandez-Garagatti, ***Univ. de Ingenieria y Tecnologia***
Oscar Pacheco-De la Vega, ***Univ. de Ingenieria y Tecnologia***
Luis Lopez-Lozano, ***Univ. de Ingenieria y Tecnologia***

8:20-8:40 ***MonA09-2*** ***Observer-based event-triggered trajectory tracking for nonlinear systems*** 4298
Yunlong Li, ***Chinese Academy of Sciences***

8:40-9:00 ***MonA09-3*** ***Intelligent Decoupling of Gas Collector Pressure based on Internal Model Control*** 4302
Yongqiang Hu, ***Guidaojiaotong Plytechnic Inst.***
Guojun Liu, ***Guidaojiaotong Plytechnic Inst.***

9:00-9:20 ***MonA09-4*** ***The optimal guidance method for fixed-time and fixed-point orbit injecting*** 4306
Jian Wang, ***Beijing Aerospace Automation Control Inst.***
Feng Qiu, ***Beijing Aerospace Automation Control Inst.***
Xiaoming Cheng, ***Beihang Univ.***

9:20-9:40 ***MonA09-5*** ***The optimal guidance of rocket fixed-attitude and fixed-point orbit injection*** 4311
Jian Wang, ***Beijing Aerospace Automation Control Inst.***
Xiaoming Cheng, ***Beihang Univ.***
Feng Qiu, ***Beijing Aerospace Automation Control Inst.***

9:40-10:00 ***MonA09-6*** ***Modeling and Control of Automobile Waste Heat Driven Ejector Refrigeration System*** 4317
Qibo Chu, ***Shenyang Univ. of Tech.***
Xiangdong Wang, ***Shenyang Univ. of Tech.***
Shujiang Li, ***Shenyang Univ. of Tech.***

Session	***MonA10: Signal Processing (IV)***
Date/Time	Monday, 30 May 2016 / 8:00-10:00
Venue	Room 10
Chair	***Haicheng Wei***, ***Beifang Univ. of Nationalities***
Co-Chair	***Fang Li***, ***Zhejiang Univ.*** ***Guilin Univ. of Electronic Tech.***

8:00-8:20 ***MonA10-1*** ***Study on Monitoring Technology of UAV Aerial Image Enhancement for Burning Straw*** 4321
Haicheng Wei, ***Beifang Univ. of Nationalities***
Mingxia Xiao, ***Beifang Univ. of Nationalities***
Ling Zhu, ***Beifang Univ. of Nationalities***
Miaojun Wang, ***Beifang Univ. of Nationalities***
Xing Wei, ***Beifang Univ. of Nationalities***
Xiuxia Zhang, ***Beifang Univ. of Nationalities***
Bai Zhang, ***Beifang Univ. of Nationalities***

8:20-8:40 ***MonA10-2*** ***A New Variable Step Size Algorithm Applied in LMS Adaptive Signal Processing*** 4326
Ying Qian, *Beifang Univ. of Nationalities*

8:40-9:00 ***MonA10-3*** ***The Design of Signal Acquisition and Processing of Rotational Raman Temperature Measuring Lidar System*** 4330
Ying Sun, *Beifang Univ. of Nationalities*
Jiandong Mao, *Beifang Univ. of Nationalities*

9:00-9:20 ***MonA10-4*** ***Tracking of Stribeck Friction based on Second-Order Linear Extended State Observer*** 4334
Lijun Wang, *Univ. of Science and Tech. Beijing*
Qing Li, *Univ. of Science and Tech. Beijing*
Ruihua Jiao, *Univ. of Science and Tech. Beijing*
Yixin Yin, *Univ. of Science and Tech. Beijing*
Yinan Feng, *Univ. of Science and Tech. Beijing*
Yichang Liu, *Univ. of Science and Tech. Beijing*

9:20-9:40 ***MonA10-5*** ***Study of CORDIC Algorithm based on FPGA*** 4338
Junwei Li, *Inner Mongolia Univ. of Tech.*
Jiandong Fang, *Inner Mongolia Univ. of Tech.*
Bajin Li, *Inner Mongolia Univ. of Tech.*
Yudong Zhao, *Inner Mongolia Agriculture and Animal Husbandry Information Center*

9:40-10:00 ***MonA10-6*** ***Double Sparse Dictionary Learning for Image Super Resolution*** 4344
Fang Li, *Zhejiang Univ.*
Guilin Univ. of Electronic Tech.
Sanyuan Zhang, *Zhejiang Univ.*

Session	***MonA11: Signal Processing (VI) (Chinese)***
Date/Time	Monday, 30 May 2016 / 8:00-10:00
Venue	Room 11
Chair	***Haihu Tan***, *Hunan Univ. of Tech.*
Co-Chair	***Enwei Gao***, *Hangzhou Dianzi Univ.*

8:00-8:20 ***MonA11-1*** ***A novel color image hologram watermarking algorithm based on QDFT-DWT*** 4349
Yong Xie, *Hunan Univ. of Tech.*
Haihu Tan, *Hunan Univ. of Tech.*
Kaili Wang, *Hunan Univ. of Tech.*

8:20-8:40 ***MonA11-2*** ***An Improved Interest Point Detector for Human Action Recognition*** 4355
Songtao Ding, *Northwestern Polytechnical Univ.*
Shiru Qu, *Northwestern Polytechnical Univ.*

8:40-9:00 ***MonA11-3*** ***Study on reconstruction technology of underwater echo based on compressed sensing*** 4361
Enwei Gao, *Hangzhou Dianzi Univ.*
Tongjing Sun, *Hangzhou Dianzi Univ.*
Anke Xue, *Hangzhou Dianzi Univ.*
Ke Ning, *Hangzhou Dianzi Univ.*

9:00-9:20	***MonA11-4***	***A Novel Fusion Technique for CT and MRI Medical Image Based on NSST*** 4367 Jingming Yang, ***Shenyang Aerospace Univ.*** Yanyan Wu, ***Shenyang Aerospace Univ.*** Yajie Wang, ***Shenyang Aerospace Univ.*** Yulin Xiong, ***Shenyang Aerospace Univ.***
9:20-9:40	***MonA11-5***	***Unified robust weighted fusion Kalman estimators with uncertain-variance linearly correlated white noises*** 4373 Xuemei Wang, ***Heilongjiang Univ.*** ***Heilongjiang Coll. of Business and Tech.*** Wenqiang Liu, ***Heilongjiang Univ.*** Zili Deng, ***Heilongjiang Univ.***
9:40-10:00	***MonA11-6***	***Application of Kalman Filter in Microseismic Data Denoising Based on Identified Signal Model*** 4381 Sen Xia, ***China Univ. of Petroleum*** Weibo Wang, ***China Univ. of Petroleum*** Shurong Li, ***China Univ. of Petroleum*** Zhiwei Wang, ***China Univ. of Petroleum***

Session	***MonA12: Robot Control (I)***
Date/Time	Monday, 30 May 2016 / 8:00-10:00
Venue	Room 12
Chair	***Huimin Lu***, ***National Univ. of Defense Tech.***
Co-Chair	***Fengshui Jing***, ***Inst. of Automation, Chinese Acad. of Scie.***

8:00-8:20	***MonA12-1***	***A Trapezoidal Fuzzy Support Vector Regression System for Humanoid Robots*** 4386 Liyang Wang, ***Department of Electronic Engineering, Shunde Polytechnic*** Ming Chen, ***Department of Electronic Engineering, Shunde Polytechnic***
8:20-8:40	***MonA12-2***	***RGB-D sensor-based Auto Path Generation Method for Arc Welding Robot*** 4390 Jing Li, ***Inst. of Automation, Chinese Acad. of Scie.*** Fengshui Jing, ***Inst. of Automation, Chinese Acad. of Scie.*** En Li, ***Inst. of Automation, Chinese Acad. of Scie.***
8:40-9:00	***MonA12-3***	***A Control System for Active Ball Handling in the RoboCup Middle Size League*** 4396 Junkai Ren, ***National Univ. of Defense Tech.*** Chenggang Xie, ***National Univ. of Defense Tech.*** Junhao Xiao, ***National Univ. of Defense Tech.*** Kaihong Huang, ***National Univ. of Defense Tech.*** Huimin Lu, ***National Univ. of Defense Tech.***

9:00-9:20	***MonA12-4***	***Design of an Active and Passive Type Walking Assistant Robot for Human*** 4403 Lijuan Zhang, ***School of Mechatronical Engineering, Beijing Inst. of Tech.*** Yunqi Lv, ***School of Mechatronical Engineering, Beijing Inst. of Tech.*** Jun Zhao, ***China rehabilitation research center*** Tong Zhang, ***China rehabilitation research center*** Yu Mu, ***School of Mechatronical Engineering, Beijing Inst. of Tech.*** ***Adil Shahzad, School of Mechatronical Engineering, Beijing Inst. of Tech.*** ***Dengqi Cui, School of Mechatronical Engineering, Beijing Inst. of Tech.*** ***Han Dong, School of Mechatronical Engineering, Beijing Inst. of Tech.*** ***Xueshan Gao, School of Mechatronical Engineering, Beijing Inst. of Tech.***
9:20-9:40	***MonA12-5***	***Cooperative-Manipulation Scheme of Routh-Hurwitz Type for Simultaneous Repetitive Motion Planning of Two-Manipulator Robotic Systems*** 4409 Yunong Zhang, ***Sun Yat-sen Univ.*** ***SYSU-CMU Shunde International Joint Research Inst., Key Laboratory of Autonomous Systems and Networked Control, Ministry of Education*** Maotai Zou, ***Sun Yat-sen Univ.*** ***SYSU-CMU Shunde International Joint Research Inst. Key Laboratory of Autonomous Systems and Networked Control, Ministry of Education*** Huinan Xiao, ***Sun Yat-sen Univ.*** ***SYSU-CMU Shunde International Joint Research Inst. Key Laboratory of Autonomous Systems and Networked Control, Ministry of Education*** Jianfeng Wen, ***Sun Yat-sen Univ.*** ***SYSU-CMU Shunde International Joint Research Inst. Key Laboratory of Autonomous Systems and Networked Control, Ministry of Education*** ***Guangdong Polytechnic Normal Univ.*** Ying Wang, ***Sun Yat-sen Univ.*** ***SYSU-CMU Shunde International Joint Research Inst. Key Laboratory of Autonomous Systems and Networked Control, Ministry of Education***
9:40-10:00	***MonA12-6***	***Variable Structure Synchronized Control of Multi-manipulator Robots*** 4415 Khalid Bouabaz, ***Harbin Engineering Univ.*** Qidan Zhu, ***Harbin Engineering Univ.***

Session	***MonA13: Electric Vehicles and Intelligent Transportation (I)***
Date/Time	Monday, 30 May 2016 / 8:00-10:00
Venue	Room 13
Chair	***Dewei Li***, ***Shanghai Jiao Tong Univ.***
Co-Chair	***Yilin Zhang***, ***Jilin Univ.***

8:00-8:20 ***MonA13-1*** ***Short Term Urban Traffic Mode Prediction Based on VOMM*** 4421
Chengjue Yuan, ***Shanghai Jiao Tong Univ.***
Dewei Li, ***Shanghai Jiao Tong Univ.***
Yugeng Xi, ***Shanghai Jiao Tong Univ.***

8:20-8:40 ***MonA13-2*** ***Slip Ratio Estimation for Electric Vehicle with In-wheel Motors based on EKF without Detection of Vehicle Velocity*** 4427
Yilin Zhang, ***Jilin Univ.***
Haiyan Zhao, ***State Key Lab.of Automotive Simulation an Control Jilin Univ.***
Lei Yuan, ***Jilin Univ.***
Hong Chen, ***State Key Lab.of Automotive Simulation an Control Jilin Univ.***

8:40-9:00 ***MonA13-3*** ***Stability analysis for the lattice model considering the effects of bilateral gaps*** 4433
Yongfu Li, ***Chongqing Univ. of Posts and Telecomunicaions***
Yu Song, ***Chongqing Univ. of Posts and Telecomunicaions***
Hao Zhu, ***Chongqing Univ. of Posts and Telecomunicaions***
Fenglan Sun, ***Chongqing Univ. of Posts and Telecomunicaions***

9:00-9:20 ***MonA13-4*** ***Real-Time Lane-Vehicle Detection and Tracking System*** 4438
Guan Huang, ***Ins. of Automation, Chinese Acad. of Sciences***
Xingang Wang, ***Ins. of Automation, Chinese Acad. of Sciences***
Wenqi Wu, ***Ins. of Automation, Chinese Acad. of Sciences***
Han Zhou, ***Beijing Information Science & Tech. Univ.***
Yuanyuan Wu, ***Beijing Information Science & Tech. Univ.***

9:20-9:40 ***MonA13-5*** ***The Torque Distribution and Anti-slip Regulation Control for Two-wheel Independent Drive Electric Vehicle*** 4444
Guodong Yin, ***Southeast Univ.***
Chengjie Zhang, ***Southeast Univ.***
Ning Zhang, ***Southeast Univ.***

9:40-10:00 ***MonA13-6*** ***A Research on Driving Cycle for Electric Cars in Beijing*** 4450
Fei Zhang, ***Beijing Inst. of Tech.***
Fen Guo, ***Beijing Inst. of Tech.***
Hong Huang, ***Beijing Inst. of Tech.***

Session	***MonA14: Smart Grids (V) (Chinese)***	
Date/Time	Monday, 30 May 2016 / 8:00-10:00	
Venue	Room 14	
Chair	***Zhigang Ren***, ***Xi'an Jiaotong Univ.***	
Co-Chair	***Qiwu Zu***, ***East China Univ. of Science & Tech.***	
8:00-8:20	***MonA14-1***	***Study on Charging Strategy of Electric Vehicle Parking Lot Based on Improved PSO*** 4456 Pengfei Zhang, ***Shanghai Electric Power Company, State Grid Corporation of China*** Weihui Shao, ***Tongji Univ.*** Haini Qu, ***Shanghai Electric Power Company, State Grid Corporation of China*** Weisheng Xu, ***Tongji Univ.*** Zhiyu Xu, ***Tongji Univ.***
8:40-9:00	***MonA14-3***	***Sizing of a stand-alone Photovoltaic/Wind Energy System with Hydrogen and Battery Storage based on Improved Ant Colony Algorithm*** 4461 Weiqiang Dong, ***Zhejiang Univ. City Coll.*** Yanjun Li, ***Zhejiang Univ.*** Ji Xiang, ***Zhejiang Univ.***
9:00-9:20	***MonA14-4***	***Digital Substation Cyber Security Analysis with SYN-Flood Attack as a Simulation Case*** 4467 Lianquan Hou, ***Hangzhou Dianzi Univ.*** Jianmin Zhang, ***Hangzhou Dianzi Univ.*** Naizheng Jin, ***Dispatch & Control Center, State Grid Shaoxing Electric Power Supply Company*** Ma Zhu, ***Dispatch & Control Center, State Grid Shaoxing Electric Power Supply Company*** Yong Li, ***Dispatch & Control Center, State Grid Shaoxing Electric Power Supply Company***
9:40-10:00	***MonA14-6***	***Consensus-Based Improved Droop Control for Suppressing Circulating Current Using Adaptive Virtual Impedance in Microgrids*** 4473 Sunghyok Kim, ***Northeastern Univ.*** Kim Chaek, ***Univ. of Tech.*** Huaguang Zhang, ***Northeastern Univ.*** Qiuye Sun, ***Northeastern Univ.***
Session	***MonAIS: Interactive Session***	
Date/Time	Monday, 30 May 2016 / 08:00-10:00	
Venue	Room 15	
	MonAIS-01	***Research on the Influencing Factors of Consumer Purchase Behavior of Green Food in Harbin*** 4479 Dawei Zhao, ***Harbin Univ. of Commerce*** Mengdi Wu, ***Agricultural Bank of China co., LTD***

MonAIS-02 ***The Research on Construction and Application of College Students Entrepreneurship Crowdfunding Platform*** 4483
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Tianyu Yi, *Bohai univ.*

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Qingfeng Song, *Tianjin Chengjian Univ.,*
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Key Laboratory of Computer Vision and System, Ministry of Education
Guangping Xu, *Key Lab of Intelligent Computing and Novel Software Tech.*
Key Laboratory of Computer Vision and System, Ministry of Education
Zhanxu Cao, *Key Lab of Intelligent Computing and Novel Software Tech.*
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Shubo Liu, ***Jiangxi Province Engineering Research Center of New Energy Tech. and Equipment***
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Univ. of Chinese Acad. of Sciences
Key Laboratory of Network Control System, Chinese Acad. of Sciences
Fucheng Pan, *Shenyang Inst. of Automation, Chinese Acad. of Sciences*
Key Laboratory of Network Control System, Chinese Acad. of Sciences

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High Voltage and Large Current Laboratory of State Grid Corporation
Hongkui Zhang, *CCTEG Shenyang Research Inst.*

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Beijing Laboratory for Urban Mass Transit
Beijing Key Laboratory of Computational Intelligence and Intelligent System
Bin Fang, ***Beijing Univ. of Tech.***
Engineering Research Center of Digital Community, Ministry of Education
Beijing Laboratory for Urban Mass Transit
Beijing Key Laboratory of Computational Intelligence and Intelligent System
Huijie Li, ***Beijing Univ. of Tech.***
Engineering Research Center of Digital Community, Ministry of Education
Beijing Laboratory for Urban Mass Transit
Beijing Key Laboratory of Computational Intelligence and Intelligent System

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MonAIS-47 ***A Research about Remote Flow Control Based On IOT*** 4703
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Peng Su, ***Northeastern Univ.***
Chen Song, ***Northeastern Univ.***
Zaiyang Tang, ***Northeastern Univ.***
Zhigang Zhen, ***School Of Mechanical Engineering and Automation Northeastern Univ.***

MonAIS-48 ***Decentralized Networked Control for Multi-generator Interconnected Power System Automatic Generation in the Electricity Market*** 4707
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Xuebo Chen, ***Univ. of Science and Tech. Liaoning***
Huaguang Zhang, ***Northeast Univ.***

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Yongming Gao, ***Acad. of Equipment***

MonAIS-53 ***Multiple paths planning for UAVs using particle swarm optimization with sequential niche technique*** 4730
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Teng Long, *School of Aerospace Engineering, Beijing Inst. of Tech.*
Zhu Wang, *School of Aerospace Engineering, Beijing Inst. of Tech.*
Yonglu Wen, *School of Aerospace Engineering, Beijing Inst. of Tech.*
Jiaxun Kou, *School of Aerospace Engineering, Beijing Inst. of Tech.*

MonAIS-55 ***Grid-plant Coordination Optimization Scheduling for Power-heat Load with Wind Power Integrated*** 4735
Guili Yuan, *North China Electric Power Univ.*
Linbo Wang, *North China Electric Power Univ.*
Baoyuan Wang, *North China Electric Power Univ.*

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Hongwei Ren, *Univ. of Jinan*
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Feng Xing, *Shenzhen Univ.*

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Wenying Duan, ***Purple Mountain Observatory, Chinese Acad. of Sciences***
Key Laboratory of Radio Astronomy, Chinese Acad. of Sciences
Xuguo Zhang, ***Purple Mountain Observatory, Chinese Acad. of Sciences***
Key Laboratory of Radio Astronomy, Chinese Acad. of Sciences
Kun Zhang, ***Purple Mountain Observatory, Chinese Acad. of Sciences***
Key Laboratory of Radio Astronomy, Chinese Acad. of Sciences
Qijun Yao, ***Purple Mountain Observatory, Chinese Acad. of Sciences***
Key Laboratory of Radio Astronomy, Chinese Acad. of Sciences
Sheng Li, ***Purple Mountain Observatory, Chinese Acad. of Sciences***
Key Laboratory of Radio Astronomy, Chinese Acad. of Sciences
Graduate School of Chinese Acad. of Sciences
Shengcai Shi, ***Purple Mountain Observatory, Chinese Acad. of Sciences***
Key Laboratory of Radio Astronomy, Chinese Acad. of Sciences

MonAIS-59 ***Research on RPLS Soft-Measuring Project Realization of Cement Clinker f-CaO*** 4755
Chunhong Wan, ***Kunming Univ. of Science and Tech.***
Kunming Electric Apparatus Research Inst.
Jingna Li, ***Kunming Electric Apparatus Research Inst.***
Lihui Feng, ***Kunming Electric Apparatus Research Inst.***

MonAIS-60 ***Nonlinear Characteristics Measurement of Piezoelectric Ceramics Actuator Based on LabVIEW*** 4760
Yanmei Liu, ***Shenyang Aerospace Univ.***
Jun Shen, ***Shenyang Aerospace Univ.***
Li Fu, ***Shenyang Aerospace Univ.***
Jiang Cao, ***Shenyang polytechnic coll.***

MonAIS-61 ***Nonlinear Coupling Characteristic Analysis of Gyrowheel*** 4764
Hui Zhao, ***Control and Simulation Center,Harbin Inst. of Tech.***
Xiaokun Liu, ***Control and Simulation Center,Harbin Inst. of Tech.***
Yu Yao, ***Control and Simulation Center,Harbin Inst. of Tech.***
Xin Huo, ***Control and Simulation Center,Harbin Inst. of Tech.***

MonAIS-62 ***A New Type Multifunction Flashlight Based on SQ680S and μC/OS-II*** 4770
Jianqi Li, ***Hunan Univ. of Arts & Science***
Kai Shi, ***Hunan Univ. of Arts & Science***
Chuhan Chen, ***Hunan Univ. of Arts & Science***
Long Liu, ***Hunan Univ. of Arts & Science***
Binfang Cao, ***Hunan Univ. of Arts & Science***

MonAIS-63	***Design of a Parallel XY? Micro-Manipulating System with Large Stroke*** 4775 Lilong Zhang, *Shandong Univ.* Peng Yan, *Shandong Univ.* *Beihang Univ.*
MonAIS-64	***Selective Maintenance Model and its Solution Algorithm for Multi-state Series-parallel System under Economic Dependence*** 4781 Qingzheng Xu, *Department of Information Service, Xi'an Communications Inst.* Lemeng Guo, *Department of Information Service, Xi'an Communications Inst.* Na Wang, *Department of Basic Courses, Xi'an Communications Inst.*
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MonAIS-67	***Partial disassembly sequence planning based on Pareto ant colony algorithm*** 4804 Yufei Xing, *Shenyang Areospace Univ.* Qiang Liu, *Liaoning Shihua Univ.*

Session	***MonB01: Optimal Control and Optimization (III)***
Date/Time	Monday, 30 May 2016 / 10:20-12:20
Venue	Room 01
Chair	***Zhigang Ren***, *Xi'an Jiaotong Univ.*
Co-Chair	***Zhidong Qi***, *Nan Jing University of Scie. & Tech.*

10:20-10:40	***MonB01-1***	***Improved Invasive Weed Optimization Based on Clustering Strategy*** 4810 Zhigang Ren, *Xi'an Jiaotong Univ.* Shanshan Huang, *Xi'an Jiaotong Univ.* Chenlin Sun, *Xi'an Jiaotong Univ.* Yongsheng Liang, *Xi'an Jiaotong Univ.*
10:40-11:00	***MonB01-2***	***Design of a New Fractional Order PI$^{\lambda}$-PD$^{\mu}$ Controller for Fractional Order System Based on BFGS Algorithm*** 4816 Xi Zhou, *Nan Jing University of Scie. & Tech.* Zhidong Qi, *Nan Jing University of Scie. & Tech.* Cong Hu, *Nan Jing University of Scie. & Tech.* Pengliang Tang, *Nan Jing University of Scie. & Tech.*

11:00-11:20	***MonB01-3***	***Cooperating Base Station Location Optimization Using Genetic Algorithm*** 4820 Haijun Meng, *Guizhou Univ.* Fei Long, *Guizhou Univ.* Lu Guo, *Guizhou Univ.* Yingqun Xiao, *Guizhou Inst. of Tech.*
11:20-11:40	***MonB01-4***	***Study of Parameter Optimization for Single Phase Heat Exchanger Model Based on Particle Swarm Optimization Algorithm*** 4825 Jin Ma, *North China Electric Power Univ.* Zhenqiao Hui, *North China Electric Power Univ.* Liangyu Ma, *North China Electric Power Univ.* Weiliang Liu, *North China Electric Power Univ.* Yongjie Zhai, *North China Electric Power Univ.*
11:40-12:00	***MonB01-5***	***A Bi-population Multi-objective Algorithm for Continuous Multi-objective Optimization Problem*** 4830 Lili Chen, *Liaoning Jianzhu Vocational Univ.* Hongfeng Wang, *Northeastern Univ.*
12:00-12:20	***MonB01-6***	***Suboptimal Guidance Law Design for Ground Target Localization and Tracking*** 4834 Tianning Wang, *Beijing Institute of Tech.* Shengjing Tang, *Beijing Institute of Tech.* Jie Guo, *Beijing Institute of Tech.*

Session	***MonB02: Process Control (III) (Chinese)***
Date/Time	Monday, 30 May 2016 / 10:20-12:20
Venue	Room 02
Chair	***Lingke Zhou***, *Nanjing University of Scie. and Tech.*
Co-Chair	***Rangwen Zhang***, *China University of Petroleum.*

10:20-10:40	***MonB02-1***	***Research of Fuzzy predictive control Based on T-S model*** 4839 Yong Zhang, *University of Scie. and Tech.* Zonglong Zhang, *University of Scie. and Tech.*
11:00-11:20	***MonB02-3***	***An Adaptive Predictive Controller based-on ARX-DIPLS Model*** 4845 Rangwen Zhang, *China University of Petroleum* Xuemin Tian, *China University of Petroleum* Ping Wang, *China University of Petroleum*
11:20-11:40	***MonB02-4***	***Urban Roadside Stereo Garage and Management Method Based On GSM Network*** 4851 Wanli Shi, *Beifang University of nationalities* Xiuxia Zhang, *Beifang University of nationalities* *HeFei University of Tech.* Ziwei Zhao, *Beifang University of nationalities* *HeFei University of Tech.* Shuyi Wei, *Beifang University of nationalities* Guannan Du, *Beifang University of nationalities*

11:40-12:00	***MonB02-5***	***Research on the Control of Adding Acid to Circulating Water Based on Expert Fuzzy PID Control*** 4853 Jin Liu, ***Nantong Univ.*** Peijian Zhang, ***Nantong Univ.*** Jianguo Wu, ***Nantong Univ.*** Pingfan Bu, ***Nantong Univ.*** Weifeng Chen, ***Nantong Univ.***
12:00-12:20	***MonB02-6***	***PI-PD controller design for unstable processes with time delay*** 4859 Jinggang Zhang, ***Taiyuan University of Scie. and Tech.*** Ning Li, ***Taiyuan University of Scie. and Tech.***

Session	***MonB03: Co-operative Control (III) (Chinese)***
Date/Time	Monday, 30 May 2016 / 10:20-12:20
Venue	Room 03
Chair	***Yangyang Chen***, ***Southeast Univ. Key Laboratory of Measurement and Control of Complex Systems of Engineering***
Co-Chair	***Linlin Ou***, ***Zhejiang Univ. of Tech.***

10:20-10:40	***MonB03-1***	***Rendezvous for the Lagrange network systems via quantized data exchange*** 4863 Huailong Wang, ***Naval Univ. of Engineering*** Xiaofeng Wu, ***Minnan Normal Univ.*** Yun Chen, ***Naval Univ. of Engineering*** Zewei Wu, ***Guangzhou Navy Academy***
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11:00-11:20	***MonB03-3***	***Globally Stable Rigid Formation Control Using Backstepping Design*** 4874 Qin Wang, ***Yangzhou Univ.*** Qingguang Hua, ***Yangzhou Univ.*** Yadong Zhu, ***Yangzhou Polytechnic Univ.*** Yangyang Chen, ***Southeast Univ.***
11:20-11:40	***MonB03-4***	***Distributed coordinated control of multiple underactuated marine surface vehicles along one curve*** 4880 Lu Liu, ***Dalian Maritime Univ.*** Dan Wang, ***Dalian Maritime Univ.*** Zhouhua Peng, ***Dalian Maritime Univ.***

11:40-12:00	***MonB03-5***	***Research on Multi-Robot Collaborative Transportation Control System*** 4886 Cheng Cheng, *Zhejiang Univ. of Tech.* Xinyi Yu, *Zhejiang Univ. of Tech.* Linlin Ou, *Zhejiang Univ. of Tech.* Yongkui Guo, *Zhejiang Univ. of Tech.*
12:00-12:20	***MonB03-6***	***Research on Distributed Task Allocation Algorithm for Unmanned Aerial vehicles based on Consensus Theory*** 4892 Liang Jin, *Flight Automatic Control Research Institute*

Session	***MonB04: Decision Supporting System and Production Planning and Scheduling (II)***
Date/Time	Monday, 30 May 2016 / 10:20-12:20
Venue	Room 04
Chair	***Zhenyu Gu***, *Chongqing Univ.*
Co-Chair	***Wangbao Xu***, *Liaoning Univ. of Science and Tech.*

10:20-10:40	***MonB04-1***	***A Flexible Job-Shop Rescheduling Method by Considering the Machine Equipment Availability*** 4898 Zhenyu Gu, *Chongqing Univ.* Linfeng Li, *Chongqing Univ.* Jiajia Zheng, *Chongqing City Management Coll.* Guorong Liu, *Chongqing Univ.*
10:40-11:00	***MonB04-2***	***Zero Element Row Augmenting Path Algorithm for Linear Assignment Problems*** 4903 Wangbao Xu, *Liaoning Univ. of Science and Tech.* Genxi Rong, *Liaoning Univ. of Science and Tech.* Xuebo Chen, *Liaoning Univ. of Science and Tech.*
11:00-11:20	***MonB04-3***	***Data-Driven Approach of Scheduling the Ratio of Waste Paper and Pulp Properties Prediction*** 4909 Zhang Liu, *South China Univ. of Tech.* Wenhao Shen, *South China Univ. of Tech.*
11:20-11:40	***MonB04-4***	***Assessment Model of the Maglev Train Braking System Safety Pre-warning and the Optimization of Parameters*** 4915 Shengjie Hou, *National Univ. of Defense Tech.* Fengshan Dou, *National Univ. of Defense Tech.* Yungang Li, *National Univ. of Defense Tech.* Zhiqiang Long, *National Univ. of Defense Tech.*
11:40-12:00	***MonB04-5***	***Local search with controlled deterioration for multi-objective scheduling in dual-resource constrained flexible job shop*** 4921 Deming Lei, *Wuhan Univ. of Tech.* Xianfeng Tan, *Wuhan Univ. of Tech.*
12:00-12:20	***MonB04-6***	***An Expert Ranking Method Based on ListNet with Feature Hierarchy*** 4927 Shengxiang Gao, *Kunming Univ. of Science and Tech.* Zhengtao Yu, *Kunming Univ. of Science and Tech.* Sichao Wei, *Kunming Univ. of Science and Tech.* Yuan Yin, *Kunming Univ. of Science and Tech.* Yantuan Xian, *Kunming Univ. of Science and Tech.*

Session	***MonB05: Decision-Making Theory and Method (V) (Chinese)***	
Date/Time	Monday, 30 May 2016 / 10:20-12:20	
Venue	Room 05	
Chair	***Zuowei You***, ***Beihang Univ.***	
Co-Chair	***Xia Liu***, ***Beihang Univ.***	
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10:40-11:00	***MonB05-2***	***Heterogeneous Information, Informed Trading and Capital Asset Pricing*** 4938 Xia Liu, ***Beihang Univ.*** Hua Jin, ***Beihang Univ.*** Binbin Chen, ***Beihang Univ.***
11:00-11:20	***MonB05-3***	***Dominate Gradient Strategy Based on Pareto Dominant and Gradient Method*** 4943 Song Zhang, ***Northeastern Univ.*** Hongfeng Wang, ***Northeastern Univ.*** Min Huang, ***Northeastern Univ.***
11:20-11:40	***MonB05-4***	***An Improved Evidence Classification Synthesis Method Combined Information Entropy*** 4949 Jihua Ye, ***Jiangxi Normal Univ.*** Yejing Wan, ***Jiangxi Normal Univ.*** Xiaosi Nie, ***Jiangxi Normal Univ.***
11:40-12:00	***MonB05-6***	***An intuitionistic fuzzy multi-attribute decision making model for the acceptance of genetically modified foods based on IFHA operator*** 4955 Yuguang Wang, ***Beijing Inst. of Tech.*** Yanan Li, ***Henan Polytechnic Univ.*** Ruifa Hu, ***Beijing Inst. of Tech.***
Session	***MonB06: DDCLS-Robot Control***	
Date/Time	Monday, 30 May 2016 / 10:20-12:20	
Venue	Room 06	
Chair	***Tianjiang Hu***, ***National Univ. of Defense Tech.***	
Co-Chair	***Yanan Li***, ***Imperial Coll. London***	
10:35-10:50	***MonB06-2***	***3D Pointing Gesture Recognition for Human-Robot Interaction*** 4959 Yuhui Lai, ***Univ. of Illinois Urbana Champaign*** Chen Wang, ***National Univ. of Singapore*** Yanan Li, ***Imperial Coll. London*** Shuzhi Sam Ge, ***National Univ. of Singapore*** Deqing Huang, ***Southwest Jiaotong Univ.***

10:50-11:05	***MonB06-3***	***A Hierarchical Emotion Regulated Sensorimotor Model: Case Studies*** 4965 Junpei Zhong, ***Plymouth Univ.*** ***Waseda Univ*** Rony Novianto, ***Univ. of Tech., Sydney*** Mingjun Dai, ***Shenzhen Univ.*** Xinzheng Zhang, ***Jinan Univ.*** Angelo Cangelosi, ***Plymouth Univ.***
11:05-11:20	***MonB06-4***	***Attitude Adjustment of Quadrotor Aircraft Platform via a Data-Driven Model Free Adaptive Control Cascaded with Intelligent PID*** 4971 Shida Liu, ***Beijing Jiaotong Univ.*** Zhongsheng Hou, ***Beijing Jiaotong Univ.*** Jian Zheng, ***Beijing Jiaotong Univ.***
11:20-11:35	***MonB06-5***	***Three-axis Stabilized Satellite Back-stepping Adaptive Control*** 4977 Aihua Zhang, ***China Coll. of Engineering, BHU*** Haitao Meng, ***China Coll. of Engineering, BHU*** Xing Huo, ***China Coll. of Engineering, BHU***
11:35-11:50	***MonB06-6***	***A novel SPSA-based IMC-PID Data-driven Control Method*** 4981 Wei Ai, ***South China Univ. of Tech.*** Xiangyang Li, ***South China Univ. of Tech.*** Senping Tian, ***South China Univ. of Tech.***
11:50-12:05	***MonB06-7***	***Development of A Biofeedback Enhanced Multimedia Game*** 4987 Huaiwei Wu, ***South China Univ. of Tech.*** Chenguang Yang, ***South China Univ. of Tech.*** Ruowei Wang, ***South China Univ. of Tech.*** Chun-Yi Su, ***South China Univ. of Tech.***
12:05-12:20	***MonB06-8***	***Point-to-Point Tracking of Integrated Predictive Iterative Learning Control By Using Updating-Reference and CARIMA Model*** 4993 Weiwei Qiu, ***Tsinghua Univ.*** Zhihua Xiong, ***Tsinghua Univ.*** Wanzhou Li, ***Tsinghua Univ.*** Jie Zhang, ***Univ. of Newcastle***

Session	***MonB07: DDCLS-Learning Control, Optimization and Applications***
Date/Time	Monday, 30 May 2016 / 10:20-12:20
Venue	Room 07
Chair	
Co-Chair	

10:20-10:35	***MonB07-1***	***Energy efficiency evaluation of ethylene industries based on DEA models*** 4998 Yaxun Chen, ***Beijing Univ. of Chemical Tech.*** Yongming Han, ***Beijing Univ. of Chemical Tech.*** Yanqing Wang, ***Beijing Univ. of Chemical Tech.*** Yuan Xu, ***Beijing Univ. of Chemical Tech.*** Qunxiong Zhu, ***Beijing Univ. of Chemical Tech.***

10:35-10:50	***MonB07-2***	***Coordinated Optimization Control Strategy for We-Energy in Energy Internet*** 5004 Fei Teng, ***Northeastern Univ.*** Qiuye Sun, ***Northeastern Univ.*** Huaguang Zhang, ***Northeastern Univ.***
10:50-11:05	***MonB07-3***	***Generalized Policy Iteration Adaptive Dynamic Programming Algorithm for Optimal Tracking Control of a Class of Nonlinear Systems*** 5009 Qiao Lin, ***Inst. of Automation, Chinese Acad. of Sciences*** Qinglai Wei, ***Inst. of Automation, Chinese Acad. of Sciences*** Derong Liu, ***Univ. of Science and Tech. Beijing***
11:05-11:20	***MonB07-4***	***Closed-Loop Subspace Identification with Prior Information*** 5015 Yali Zhao, ***Beijing Univ. of Chemical Tech.*** Jinxu Cheng, ***Beijing Univ. of Chemical Tech.*** Youqing Wang, ***Beijing Univ. of Chemical Tech.***
11:35-11:50	***MonB07-6***	***sEMG-based prediction of Human Lower Extremity Movements by Using a Dynamic Recurrent Neural Network*** 5021 Chengkun Cui, ***Inst. of Automation, Chinese Acad. of Science*** Gui-Bin Bian, ***Inst. of Automation, Chinese Acad. of Science*** Zeng-Guang Hou, ***Inst. of Automation, Chinese Acad. of Science*** Xiao-Liang Xie, ***Inst. of Automation, Chinese Acad. of Science*** Liang Peng, ***Inst. of Automation, Chinese Acad. of Science*** Dongxu Zhang, ***Inst. of Automation, Chinese Acad. of Science***
11:50-12:05	***MonB07-7***	***Cascade-Based Control of a Benchmark System*** 5027 Xianqing Wu, ***Zhejiang Univ. of Tech.*** Xiongxiong He, ***Zhejiang Univ. of Tech.***

Session	***MonB08: Computer Games (II) (Invited Session)***
Date/Time	Monday, 30 May 2016 / 10:20-12:20
Venue	Room 08
Chair	***Xinhe Xu***, ***Northeastern Univ.***
Co-Chair	***Yajie Wang***, ***Shenyang Aerospace Univ.***

10:20-10:40	***MonB08-1***	***Research of Test Platform on Computer Games with Distributed System*** 5032 Jianning Quan, ***Shenyang Aerospace Univ.*** Hongkun Qiu, ***Shenyang Aerospace Univ.*** Yu Cao, ***Shenyang Aerospace Univ.*** Yajie Wang, ***Shenyang Aerospace Univ.*** Xueping Liu, ***Shenyang Aerospace Univ.***
10:40-11:00	***MonB08-2***	***The Research of UCT and Rapid Action Value Estimation in NoGo Game*** 5036 Yuxia Sun, ***Shenyang Aerospace Univ.*** Ziyang Zhang, ***Shenyang Aerospace Univ.*** Xiaoyan Wang, ***Shenyang Aerospace Univ.***

11:00-11:20	***MonB08-3***	***A Solving Strategy of Connect6 Based on K-in-a-row Types*** 5041 Qiang Gao, *Northeastern Univ.* Xinhe Xu, *Northeastern Univ.*
11:20-11:40	***MonB08-4***	***The Game Model And The Probability Algorithm of Einstein Chess*** 5046 Zheng Chen, *Harbin Univ. of Science and Tech.* Xian Mei, *Harbin Univ. of Science and Tech.* Yuan Tian, *Harbin Univ. of Science and Tech.* Lei Bi, *Harbin Univ. of Science and Tech.* Meiqi Dong, *Harbin Univ. of Science and Tech.*
11:40-12:00	***MonB08-5***	***Parallel Monte Carlo Tree Search in Perfect Information Game with Chance*** 5050 Junkai Lu, *Shenyang Aerospace Univ.* Xiaoyan Wang, *Shenyang Aerospace Univ.* Dayi Wang, *Shenyang Aerospace Univ.* Yajie Wang, *Shenyang Aerospace Univ.*
12:00-12:20	***MonB08-6***	***Research of the Value of Pieces in EWN Based on Monte Carlo Algorithm*** 5054 Tianming Yu, *Shenyang Aerospace Univ.* Xiaoyan Wang, *Shenyang Aerospace Univ.* Jiwei Yang, *Shenyang Aerospace Univ.* Cheng Li, *Shenyang Aerospace Univ.* Junkai Lu, *Shenyang Aerospace Univ.*

Session	***MonB09: Control Applications (VI) (Chinese)***
Date/Time	Monday, 30 May 2016 / 10:20-12:20
Venue	Room 09
Chair	***Yanan Wang***, *Beijing Inst. of Tech.*
Co-Chair	***Yuanli Cai***, *Xi'an Jiaotong Univ.*

10:20-10:40	***MonB09-1***	***Altitude Control for Unmanned Powered Parafoil Based on Backstepping Method*** 5058 Zili Chen, *Mechanical Engineering College* Hao Zhang, *Mechanical Engineering College*
10:40-11:00	***MonB09-2***	***Robust Stabilizing Regions of Fractional-order PI Controllers for Permanent Magnet Synchronous Motor Control System*** 5065 Yanan Wang, *Beijing Inst. of Tech.* Lei Dong, *Beijing Inst. of Tech.* Xiaozhong Liao, *Beijing Inst. of Tech.*
11:00-11:20	***MonB09-3***	***Comparative Analysis on PMSM Control System Based on SPWM and SVPWM*** 5071 Bo Li, *Xi'an Inst. of Optics & Precision Mechanics, CAS* *Univ. of Chinese Academy of Sciences* Chen Wang, *Xi'an Inst. of Optics & Precision Mechanics, CAS*
11:20-11:40	***MonB09-4***	***Space-Indexed Aircraft Trajectory Tracking*** 5076 Mastura Ab Wahid, *Univ. Tecknologi Malaysia* *Ecole Nationale De L' Aviation Civile* Benjamas Panomruttanarug, *King Mongkut's Univ. of Tech.* *Thonburi, Antoine Drouin Ecole Nationale De L' Aviation Civile* Felix Mora-Camino, *Ecole Nationale De L' Aviation Civile*

11:40-12:00	***MonB09-5***	***Scheduled Dual Mode Predictive Control for a Flexible Air-Breathing Hypersonic Vehicle Using Polyhedral Invariant Sets*** 5082 Yu Ma, *Xi'an Jiaotong Univ.* Yuanli Cai, *Xi'an Jiaotong Univ.*
12:00-12:20	***MonB09-6***	***Hybrid Electric Vehicle torque distribution based on the optimal operating curve and multi-input*** 5088 Niaona Zhang, *Changchun Univ. of Tech.* *Jilin Province Adminstration of Press, Publication, Radio, Film and Television* Caimao Xu, *Changchun Univ. of Tech.* Liujie Fu, *Changchun Univ. of Tech.* Yueling Qi, *Jilin Province Adminstration of Press, Publication, Radio, Film and Television*

Session	***MonB10: Signal Processing (V)***
Date/Time	Monday, 30 May 2016 / 10:20-12:20
Venue	Room 10
Chair	***Dong Yin***, *Dept. Electronic Engineering & Information Science, USTC* *Key Laboratory of Electromagnetic Space Information, CAS*
Co-Chair	***Shanshan Li***, *Communication Univ. of China*

10:20-10:40	***MonB10-1***	***Component Surface Defect Detection based on Image Segmentation Method*** 5093 Renwei Lu, *Dept. Electronic Engineering & Information Science, USTC* *Key Laboratory of Electromagnetic Space Information, CAS* Dong Yin, *Dept. Electronic Engineering & Information Science, USTC* *Key Laboratory of Electromagnetic Space Information, CAS*
10:40-11:00	***MonB10-2***	***The battleplane target detection based on sky background*** 5097 Feng Liu, *Hangzhou Dianzi Univ.* Jun Liu, *Hangzhou Dianzi Univ.* Xuguang Wei, *Northeastern Univ. Engineering & Research Inst. Co., Ltd*
11:00-11:20	***MonB10-3***	***Compressed Sensing Denoising Algorithm for Astronomical Images*** 5102 Xiaoping Shi, *Harbin Inst. of Tech.* Jie Zhang, *Harbin Inst. of Tech.* Hailong Liu, *Harbin Inst. of Tech.*
11:20-11:40	***MonB10-4***	***A Research on the Relationship between Kalman Filter and Phase Locked Loop*** 5106 Youmu Shi, *Equipment Academy* Di Yan, *Equipment Academy*
11:40-12:00	***MonB10-5***	***A New Infrared Image Enhancement Algorithm*** 5111 Shanshan Li, *Communication Univ. of China* Jintao Wang, *Communication Univ. of China* Liming Sun, *Communication Univ. of China*
12:00-12:20	***MonB10-6***	***Local statistic information-driven active contours for image segmentation*** 5115 Xiaosheng Yu, *Northeastern Univ.* Qi Qi, *Shenyang Agricultural Univ.* Nan Hu, *Northeastern Univ.*

Session	***MonB11: Data Processing (III) (Chinese)***
Date/Time	Monday, 30 May 2016 / 10:20-12:20
Venue	Room 11
Chair	***Jun Liu***, *Xi'an Jiaotong Univ.*
Co-Chair	***Jizheng Chu***, *Beijing Univ. of Chemical Tech.*

10:20-10:40	***MonB11-1***	***Calculation of Warhead Reentry Angle of Attack based on Flight Test Data*** 5121 Jinhua Fan, *Taiyuan Satellite Launch Center* Jianying Song, *Taiyuan Satellite Launch Center* Jie Peng, *Taiyuan Satellite Launch Center*	
10:40-11:00	***MonB11-2***	***SPSD: an Alternative Attribute for a Flow Using Packet Sampling*** 5125 Lei Ding, *Xi'an Jiaotong Univ.* Jun Liu, *Xi'an Jiaotong Univ.* Tao Qin, *Xi'an Jiaotong Univ.* Max Haifei, *Li Union Univ.*	
11:00-11:20	***MonB11-3***	***The Combining of Two Methods for Cycle Slips Detection and Repair of BDS Triple-frequency Data*** 5132 Qiqi Zhao, *Kunming Univ. of Science and Tech.* Jinhui Zou, *Kunming Univ. of Science and Tech.* *Engineering Research Center for Mineral Pipeline Transportation*	
11:20-11:40	***MonB11-4***	***Similarity Measurement Based on Cloud Models for Time Series Prediction*** 5138 Songda Jia, *Taiyuan Univ. of Tech.* Xinying Xu, *Taiyuan Univ. of Tech.* Yusong Pang, *Delft Univ. of Tech.* Gaowei Yan, *Taiyuan Univ. of Tech.*	
11:40-12:00	***MonB11-5***	***A study of identification of wide-sense stationary in chemical processes*** 5143 Minghui Tang, *Beijing Univ. of Chemical Tech.* Jizheng Chu, *Beijing Univ. of Chemical Tech.* Huipeng Zhang, *Beijing Univ. of Chemical Tech.*	

Session	***MonB12: Robot Control (II)***
Date/Time	Monday, 30 May 2016 / 10:20-12:20
Venue	Room 12
Chair	***Guoyu Zuo***, *Beijing Univ. of Tech.*
Co-Chair	***Jingyi Zheng***, *Inst. of Automation, Chinese Acad. of Scie.*

10:20-10:40	***MonB12-1***	***Research on a high-speed picking-placing motion of the sorting robot based on the optimal picking point*** 5148 Zeqiang He, *Harbin Inst. of Tech.* Zonglin Li, *Harbin Inst. of Tech.* Jiachen Ma, *Harbin Inst. of Tech.*
10:40-11:00	***MonB12-2***	***Dynamic Modeling and Balance Control for Bionic Kangaroo Robot during Stance Phase*** 5154 Guoyu Zuo, *Beijing Univ. of Tech.* Xinpeng Wang, *Beijing Univ. of Tech.* Daoxiong Gong, *Beijing Univ. of Tech.* Yuwei Liu, *Beijing Univ. of Tech.*

11:00-11:20	***MonB12-3***	***Quadrotor helicopter Attitude Control using cascade PID*** 5158 Pengbo Gao, *Inner Mongolia Univ.* Yongxin Liu, *Inner Mongolia Univ.* Hui Zhang, *Inner Mongolia Univ.* Linling Wang, *Inner Mongolia Univ.*
11:20-11:40	***MonB12-4***	***Terrain Estimation and Strategy for Quadruped Robot Body Posture and COG Adjustment*** 5164 Yudong He, *Beijing Inst. of Tech.* Junzheng Wang, *Beijing Inst. of Tech.* Xianfeng Ke, *Beijing Inst. of Tech.* Shoukun Wang, *Beijing Inst. of Tech.*
11:40-12:00	***MonB12-5***	***A Control System of Human-Computer Interaction Based on Kinect Somatosensory Equipment*** 5170 Liang Guo, *Beijing Univ. of Civil Engineering and Architecture* *Beijing Key Laboratory of Robot Bionics and Function Research* Chenxi Liu, *Beijing Univ. of Civil Engineering and Architecture* *Beijing Key Laboratory of Robot Bionics and Function Research* Xiaoyan Wen, *Beijing Univ. of Civil Engineering and Architecture* *Beijing Key Laboratory of Robot Bionics and Function Research* Haohua Chen, *Beijing Univ. of Civil Engineering and Architecture* *Beijing Key Laboratory of Robot Bionics and Function Research* Jianghui Zhang, *Beijing Univ. of Civil Engineering and Architecture* *Beijing Key Laboratory of Robot Bionics and Function Research*
12:00-12:20	***MonB12-6***	***Random Based Narrow Space Path Planning For Arm Manipulation With the Fixed Orientation Constraints*** 5176 Jingyi Zheng, *Inst. of Automation, Chinese Acad. of Scie.* En Li, *Inst. of Automation, Chinese Acad. of Scie.* Zize Lliang, *Inst. of Automation, Chinese Acad. of Scie.*

Session	***MonB13: Electric Vehicles and Intelligent Transportation (II)***
Date/Time	Monday, 30 May 2016 / 10:20-12:20
Venue	Room 13
Chair	***Wenlong Yao***, *Qingdao Ocean Shipping Mariners Coll*
Co-Chair	***Guodong Yin***, *Southeast Univ.*

10:20-10:40	***MonB13-1***	***Vector Control of LNG Marine Propulsion Motor based on Improved EKF*** 5180 Yuan Liu, *Qingdao Ocean Shipping Mariners Coll.* Wenlong Yao, *Qingdao Ocean Shipping Mariners Coll.* Ailing Chen, *Qingdao Ocean Shipping Mariners Coll.*
10:40-11:00	***MonB13-2***	***Differential Drive Assisted Steering Control for Electric Vehicle with Electric Motored Wheels*** 5184 Guodong Yin, *Southeast Univ.* Chen Shen, *Southeast Univ.* Xianjian Jin, *Southeast Univ.*

11:00-11:20	***MonB13-3***	***The Current Research on Electric Vehicle*** 5190 Xuesong Zhou, *Tianjin Univ. of Tech.* Lei Zou, *Tianjin Univ. of Tech.* Youjie Ma, *Tianjin Univ. of Tech.* Zhiqiang Gao, *Tianjin Univ. of Tech.* Yanjuan Wu, *Tianjin Univ. of Tech.* Jinliang Yin, *Tianjin Univ. of Tech.* Xiaoning Xu, *Tianjin Univ. of Tech.*
11:20-11:40	***MonB13-4***	***Traffic Sign Detection and Recognition Using Color Standardization and Zernike Moments*** 5195 Xing Ma, *Beifang Univ. of Nationalities* Chunyang Mu, *Beifang Univ. of Nationalities* Yan Wang, *Beifang Univ. of Nationalities* Xiaolong Wang, *Beifang Univ. of Nationalities* Xuetao Chen, *Beifang Univ. of Nationalities*
11:40-12:00	***MonB13-5***	***A Traffic signs' Detection Method of Contour Approximation based on Concave Removal*** 5199 Zhe Xu, *Beijing Univ. of Tech.* Jingyi Ren, *Beijing Univ. of Tech.* Chaoqian Bao, *Beijing Univ. of Tech.*
12:00-12:20	***MonB13-6***	***Application of Improved Adaptive Kalman Observer in the Vehicle Rollover Warning System*** 5205 Jiangchun Xu, *Kunming Univ. of Science and Tech.* Liling Yu, *Kunming Univ. of Science and Tech.* Xiangyang Ren, *Kunming Univ. of Science and Tech.* Shengwang Huang, *Kunming Univ. of Science and Tech.*

Session	***MonB14: Micro-Electromechanical Systems***
Date/Time	Monday, 30 May 2016 / 10:20-12:20
Venue	Room 14
Chair	***De Xu***, *Chinese Acad. of Sciences*
Co-Chair	***Fengqi Liang***, *Chinese Acad. of Aerospace Aerodynamics*

10:20-10:40	***MonB14-1***	***Particle Detection on Low Contrast Image of Large Aperture Optics*** 5209 Wendong Ding, *Inst. of Automation, Chinese Acad. of Scie.* De Xu, *Inst. of Automation, Chinese Acad. of Scie.* Zhengtao Zhang, *Inst. of Automation, Chinese Acad. of Scie.* Dapeng Zhang, *Inst. of Automation, Chinese Acad. of Scie.*
10:40-11:00	***MonB14-2***	***Magnetic and Force Performance Analysis of Tubular Linear Motor with Two Halbach Topologies*** 5215 Fengqi Liang, *Chinese Acad. of Aerospace Aerodynamics* Hui Cong, *Chinese Acad. of Aerospace Aerodynamics* Zhigang Ji, *Chinese Acad. of Aerospace Aerodynamics* Yijing Zhao, *Beihang Univ.*
11:00-11:20	***MonB14-3***	***Optimal Controller for Interior Permanent Magnet Synchronous Motor based on Hamiltonian Control*** 5221 Zhitao Wu, *Univ. of Science and Tech. Liaoning* Fuyun Li, *Univ. of Science and Tech. Liaoning* Jianying Xu, *Univ. of Science and Tech. Liaoning*

11:20-11:40	***MonB14-4***	***Comparison Study of Hysteresis Compensation of Piezostage Using Feedforward Combined With Feedback Control*** 5226 Yulong Zhang, ***Univ. of Macau*** Qingsong Xu, ***Univ. of Macau***
11:40-12:00	***MonB14-5***	***Model Predictive Control Design of a Flexure-Based Micropositioning System*** 5232 Piyu Wang, ***Univ. of Macau*** Qingsong Xu, ***Univ. of Macau***
12:00-12:20	***MonB14-6***	***A federated filtering personal navigation algorithm based on MEMS-INS/GPS integrated*** 5237 Kai Pan, ***Beijing Univ. of Tech.*** ***Engineering Research Centerof Digital Community, Ministry of Education*** ***Beijing Laboratory for Urban Mass Transit*** ***Beijing Key Lab. of Computational Intelligence and Intelligent System*** Mingrong Ren, ***Beijing Univ. of Tech.*** ***Engineering Research Centerof Digital Community, Ministry of Education*** ***Beijing Laboratory for Urban Mass Transit*** ***Beijing Key Lab. of Computational Intelligence and Intelligent System*** Pu Wang, ***Beijing Univ. of Tech.*** ***Engineering Research Centerof Digital Community, Ministry of Education*** ***Beijing Laboratory for Urban Mass Transit*** ***Beijing Key Lab. of Computational Intelligence and Intelligent System*** Yanhong Liu, ***Beijing Univ. of Tech.*** ***Engineering Research Centerof Digital Community, Ministry of Education*** ***Beijing Laboratory for Urban Mass Transit*** ***eijing Key Lab. of Computational Intelligence and Intelligent System***

Session	***MonBIS: Interactive Session***
Date/Time	Monday, 30 May 2016 / 10:20-12:20
Venue	Room 15

MonBIS-01	***The Research on Obstacle Avoidance of Hospital Ward Inspection Robots in Complex Environment*** 5242 Jinshan Yu, ***Shandong Univ.*** Hao Wu, ***Shandong Univ.*** Xin Wang, ***Shandong Univ.***
MonBIS-02	***Design and Implementation of the UAV Flight Stability Control Law by Fuzzy-PID*** 5248 Qiang Zhang, ***Information Engineering Univ.*** Mengqing Sun, ***North China Univ. of Water Ressources and Electric Power*** Jianjing Shen, ***Information Engineering Univ.***
MonBIS-03	***Design and Control of Multitasking Lego Robots*** 5255 Jun Wang, ***Hefei Univ.*** Xiaodong Du, ***Hefei Univ.***

MonBIS-04 ***Control of Balancing Mobile Robot on a Ball with Fuzzy Self-adjusting PID*** 5258
Xu Su, *Inner Mongolia Univ.*
Cun Wang, *Inner Mongolia Univ.*
Weiwei Su, *Inner Mongolia Univ.; Test Inst. of Aerospace Dynamic Machine in Inner Mongolia*
Yan Ding, *Inner Mongolia Univ.*

MonBIS-05 ***Modeling and Decoupling Control for Two-Wheeled Self-Balancing Robot*** 5263
Zheng Zhang, *Wuhan Univ. of Science and Tech.*
Teng Meng, *Wuhan Univ. of Science and Tech.*

MonBIS-06 ***Observer Based 3-D Path Following Control of Underactuated Underwater Vehicle in the Presence of Ocean Currents*** 5268
Tao Chen, *Harbin Engineering Univ.*
Key Laboratory of Underwater Robot Tech.
Da Xu, *Harbin Engineering Univ.*
Jiajia Zhou, *Harbin Engineering Univ.*
Anzuo Jiang, *Harbin Engineering Univ.*

MonBIS-07 ***Kicking Motion Design of Humanoid Robots Using Gradual Accumulation Learning Method Based on Q-learning*** 5274
Jiawen Wang, *Nanjing Univ. of Posts and Telecommunications*
Zhiwei Liang, *Nanjing Univ. of Posts and Telecommunications*
Zixuan Zhou, *Nanjing Univ. of Posts and Telecommunications*
Yunfei Zhang, *Nanjing Univ. of Posts and Telecommunications*

MonBIS-08 ***Compliance Control for Grasping with a Bionic Robot Hand*** 5280
Yulin Xu, *Shanghai Univ.*
Caijun Jiang, *Shanghai Univ.*
Jie Yuan, *Shanghai Univ.*

MonBIS-09 ***Adaptive Position/Force Control of Coordinated Multiple Manipulators Based on A New Sliding Mode*** 5286
Huarong Wang, *China Univ. of Petroleum*
Shurong Li, *China Univ. of Petroleum*
Qianlei Cao, *China Univ. of Petroleum*

MonBIS-10 ***Depth Control for Underactuated AUV in Vertical Plane Using Optimal Internal Model Controller*** 5292
Dexin Gao, *Qingdao Univ. of Science & Tech.*
Jie Cheng, *Qingdao Univ. of Science & Tech.*
Qing Yang, *Ocean Univ. of China*

MonBIS-11 ***Adaptive Position Feedback Consensus of Networked Euler-Lagrange Systems in the Presence of Communication Delays*** 5297
Lijiao Wang, *Beijing Inst. of Control Engineering*
Yong Hu, *Beijing Inst. of Control Engineering*

MonBIS-12 ***Dynamic Balance Control of Biped Robot Using Optimized SLFNs*** 5303
Liang Yang, *Guangdong Univ. of Tech.*
Univ. of Electronic Science and Tech. of China Zhongshan Inst.
Zhi Liu, *Guangdong Univ. of Tech.*
Yun Zhang, *Guangdong Univ. of Tech.*

MonBIS-14 ***Traversable Detection in Semi-structured Environment By Using 2D Sequential Laser Data for A Small Mobile Robot*** 5308
Xia Yuan, *Nanjing Univ. of Science and Tech.*
Pengbo Shi, *Nanjing Univ. of Science and Tech.*
Jie Li, *Nanjing Univ. of Science and Tech.*
Chunxia Zhao, *Nanjing Univ. of Science and Tech.*

MonBIS-15 ***A Multi-Robot Patrol Strategy for Any Security Degree Environment Monitoring*** 5314
Li Huang, *Donghua Univ.*
Yongsheng Ding, *Donghua Univ.*
Kuangrong Hao, *Donghua Univ.*
Feng Li, *Donghua Univ.*

MonBIS-16 ***A Kind of Wall-climbing Robot Based on Wireless Communication among Multi-processors*** 5320
Chenwei Fan, *Zhejiang Sci-Tech Univ.*
Yibo Zhang, *Zhejiang Sci-Tech Univ.*
Weirong Zhu, *Hangzhou Steam Turbine Co., LTD*
Haipeng Pan, *Zhejiang Sci-Tech Univ.*

MonBIS-17 ***Obstacle Detection Method Based on Restricted Region Growing and Saturation Characteristics*** 5325
Xiaofeng Sun, *Kunming Univ. of Science and Tech.*
Hui Liu, *Kunming Univ. of Science and Tech.*
Bin Wang, *Kunming Univ. of Science and Tech.*
Fan Jiang, *Kunming Univ. of Science and Tech.*
Yanlong Guo, *Kunming Univ. of Science and Tech.*

MonBIS-18 ***Design and analysis of climbing robot based on Construction Surface Inspection*** 5331
Dengqi Cui, *Beijing Inst. of Tech.*
Dongsheng, *Chen China Acad. of Railway Sciences, Infrastructure Inspection Research Inst.*
Han Dong, *Beijing Inst. of Tech.*
Lijuan Zhang, *Beijing Inst. of Tech.*
Falin Qi, *China Acad. of Railway Sciences, Infrastructure Inspection Research Inst.*
Yang Lei, *China Acad. of Railway Sciences, Infrastructure Inspection Research Inst.*
Xueshan Gao, *Beijing Inst. of Tech.*

MonBIS-19 ***The Application of Adaptive Extended Kalman Filter in Mobile Robot Localization*** 5337
Yuzhen Pi, *Changchun Inst. of Tech. Distribution Automation Engineering Research Center*
Quande Yuan, *Changchun Inst. of Tech. Harbin Inst. of Tech.*
Benfa Zhang, *Northeast Dianli Univ.*

MonBIS-20 ***The Design and Implementation of All-Dimensional Planar Motion Positioning System Based on Multi-Sensor*** 5343
Xiaoqing Cai, ***Northeastern Univ.***
Liangqi Zhang, ***Northeastern Univ.***
Zeyuan Xuan, ***Northeastern Univ.***
Shilin Wang, ***Northeastern Univ.***
Chunhua He, ***Northeastern Univ.***

MonBIS-21 ***Design and Implementation of Mobile Robot Ultrasonic Localization System*** 5347
Runmin Li, ***Northeast Normal Univ.***
Zhonghui Du, ***Northeast Normal Univ.***
Yu Zhao, ***Northeast Normal Univ.***
Shuhua Liu, ***Northeast Normal Univ.***

MonBIS-22 ***An Efficient Backoff Algorithm for QoS Guaranteeing in Wireless Networks*** 5353
Xinhua Liu, ***Wuhan Univ. of Tech.***
Guojun Ma, ***Wuhan Univ. of Tech.***
HaiLan Kuang, ***Wuhan Univ. of Tech.***
Fangmin Li, ***Wuhan Univ. of Tech.***

MonBIS-23 ***Lung Nodules Classification Based on Growth Changes and Registration Technology*** 5359
Tong Jia, ***Northeastern Univ.***
Yukun Bai, ***Northeastern Univ.***
Dongyue Chen, ***Northeastern Univ.***
Xiaosheng Yu, ***Northeastern Univ.***
Chengdong Wu, ***Northeastern Univ.***

MonBIS-24 ***A General Line Tracking Algorithm Based on Computer Vision*** 5365
Huanhuan Yang, ***HangZhou DianZi Univ.***
Yinqiu Wang, ***HangZhou DianZi Univ.***
Li Gao, ***HangZhou DianZi Univ.***

MonBIS-25 ***Research on the fMRI Study of Chinese Speech Region of Interest Based on DIVA Model*** 5371
Shaobai Zhang, ***Computer Department, Nanjing Univ. of Posts and Telecommunications***
Yanlin Chen, ***Computer Department, Nanjing Univ. of Posts and Telecommunications***
Youyi Liu, ***Insti. of Cognitive Neuroscience and Learning, Beijing Normal Univ.***

MonBIS-26 ***UAV Image Identification in Urban Region Satellite Image Using Global Feature and Local Feature*** 5377
Mingguo Zheng, ***Northeastern Univ.***
Chengdong Wu, ***Northeastern Univ.***
Dongyue Chen, ***Northeastern Univ.***

MonBIS-27 ***Image Based Adaptive Coordinated Control for Cooperative Manipulators*** 5383
Yong Wang, ***Guangdong Univ. of Tech. Guangdong Univ. of Foreign Studies***
Zhi Liu, ***Guangdong Univ. of Tech.***
Yun Zhang, ***Guangdong Univ. of Tech.***

MonBIS-28 ***A fast target localization method with multi-point observation for a single UAV*** 5389
Yue Li, *National Univ. of Defense Tech.*
Qingyang Chen, *National Univ. of Defense Tech.*
Sheng Xu, *National Univ. of Defense Tech.*
Zhongxi Hou, *National Univ. of Defense Tech.*

MonBIS-29 ***Spatial-temporal Data Modeling and Visualizing Method for UUV Environmental Perception*** 5395
Hongjian Wang, *Harbin Engineering Univ.*
Xuelian Zhang, *Harbin Engineering Univ.*
Hongli Lv, *Harbin Engineering Univ.*
Xin Xu, *Harbin Engineering Univ.*

MonBIS-30 ***Adaptive Object Tracking With Logistic Regression*** 5403
Jin Song, *Nanjing Univ. of Posts and Telecommunications*
Baojie Fan, *Nanjing Univ. of Posts and Telecommunications*

MonBIS-31 ***WIFI and Magnetic Fingerprint Positioning Algorithm based on KDA-KNN*** 5409
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Wenbo Shen, *South China Univ. of Tech.*
Jinhui Zhu, *South China Univ. of Tech.*

MonBIS-33 ***Motion Retrieval Based on Motion Semantic Dictionary and HMM Inference*** 5416
Qinkun Xiao, *Xi'an Tech. Univ.*
Song Ren, *Xi'an Tech. Univ.*

MonBIS-34 ***Infrared and visible image registration based on SIFT and Sparse Representation*** 5420
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Qin Qin, *Shanghai Second Polytechnic Univ.*
Zimei Tu, *Shanghai Second Polytechnic Univ.*
Xishuai Peng, *Shanghai Jiao Tong Univ.*
Yuanxiang Li, *Shanghai Jiao Tong Univ.*

MonBIS-35 ***Mechanism Design and Drive Control of Bionic Robotic Fish Based on DEAP Material*** 5425
Yuan Li, *School of Automation, Beijing Inst. of Tech.*
Dongchi Zhang, *School of Automation, Beijing Inst. of Tech.*
Neil Suttora, *Northeastern Univ.*
Jinwen Zheng, *School of Automation, Beijing Inst. of Tech.*
Qinglin Wang, *School of Automation, Beijing Inst. of Tech.*

MonBIS-36 ***A New Geometric Representation for Humanoid Rehabilitation Robot Simulation*** 5431
Yuancan Huang, *School of Mechatronical Engineering, Beijing Inst. of Tech.*
Guodong Li, *School of Mechatronical Engineering, Beijing Inst. of Tech.*
Shuai Li, *School of Mechatronical Engineering, Beijing Inst. of Tech.*

MonBIS-37 ***Adaptive Velocity Field Control of Upper-limb Rehabilitation Robot*** 5438
Xiaoke Fang, *Northeastern Univ.*
Bing Han, *Northeastern Univ.*
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Danyang Liu, *Northeastern Univ.*

MonBIS-38 ***Comparison of Estimation and Control Methods for Flexible Needle in 2D*** 5444
Xingang Zhao, *State Key Laboratory of Robotics, Shenyang Inst. of Automation*
Hui Guo, *Northeastern Univ.*
Dan Ye, *Northeastern Univ.*
Benyan Huo, *State Key Laboratory of Robotics, Shenyang Inst. of Automation*

MonBIS-39 ***A Reasoning System about Knowledge Extraction in Human-computer Interaction*** 5450
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Changle Zhou, *Xiamen Univ.*
Fujian Key Lab of the Brain-like Intelligent Systems

MonBIS-41 ***A New Weighted SVDD Algorithm for Outlier Detection*** 5456
Tao Hou, *Jilin Univ.*
Yun Liu, *Jilin Univ.*
Ke Wang, *Jilin Univ.*
Jian Xie, *Jilin Univ.*
Fu Liu, *Jilin Univ.*

MonBIS-42 ***Control Algorithm of Human-thinking Simulated Control*** 5462
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Yun Liu, *Yantai Univ.*

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MonBIS-45 ***Stability analysis of discrete-time quadratic periodically time-varying systems with input saturation*** 5476
Fu Chen, *Shanxi Datong Univ.*

MonBIS-46 ***A Predictive Approach for Networked Control of Discrete Event Systems*** 5482
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MonBIS-47 ***Attribute Reduction for Chinese Question Classification*** 5488
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Shengyan Chang, *Unit of 68036 of PLA*
Zhongguang Li, *Equipment Academy*
Military Transportation Univ.

MonBIS-49 ***The United States, Britain, Japan disabled Employment Guarantee Measures for the Enlightenment of our Country*** 5498
Jianmei Chen, *Harbin Engineering Univ.*
Harbin Univ. of Commerce
Xiyue Fang, *Harbin Univ. of Commerce*
Jianhong Xu, *Harbin Univ. of Commerce*

MonBIS-50 ***The Research of Multi-label Question Classification in Community Question Answering*** 5504
Peng Shu, ***Kunming Univ. of Science and Tech.***
Lei Su, ***Kunming Univ. of Science and Tech.***
Liwei Yuan, ***Kunming Univ. of Science and Tech.***

MonBIS-51 ***Rough Fuzzy Set Based on Logical Disjunct Operation of Variable Precision and Grade in Ordered Information System*** 5508
Yanting Guo, ***Chongqing Univ. of Tech.***
Weihua Xu, ***Chongqing Univ. of Tech.***
Nanjing Univ. of Science and Tech.

MonBIS-52 ***A Heuristic Monte Carlo Tree Search Method for Surakarta Chess*** 5515
Guoyu Zuo, ***Beijing Univ. of Tech.***
Beijing Key Laboratory of Computational Intelligence and Intelligent System
Chenming Wu, ***Beijing Univ. of Tech.***

MonBIS-53 ***Center-focus Global Contrast Saliency Detection*** 5519
Qichang Duan, ***Chongqing Univ.***
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MonBIS-54 ***Soft-Sensor Modeling of Foot-and-Mouth Disease Vaccine Suspension Culture Based on Relevance Vector Machine*** 5524
Yonghong Huang, ***Jiangsu Univ.***
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Zhicai Fu, ***Xinjiang Tiankang Livestock Biotechnology Limited by Share Ltd***

MonBIS-55 ***Fault Diagnosis for Glutamic Acid Fermentation Process Using Fuzzy Clustering*** 5530
Guicheng Wang, ***Shanghai Inst. of Tech.***
Bing Xu, ***Shanghai Inst. of Tech.***
Wenping Jiang, ***Shanghai Inst. of Tech.***

MonBIS-56 ***Abnormal Lung Regions Segmentation Method Based on Improved ASM*** 5535
Shenshen Sun, ***Shenyang Univ.***
Huizhi Ren, ***Shenyang Univ. of Tech.***
Fanxing Meng, ***Shenyang Univ.***

MonBIS-57 ***Noise Reduction and Feature Extraction of Gastric Magnetic Fast Wave*** 5540
Anna Wang, ***Northeastern Univ.***
Haishi Li, ***Northeastern Univ.***
Zhiyuan Liu, ***Contec Medical Systems Company Limited***
Yangyang Man, ***Northeastern Univ.***

MonBIS-58 ***Rough Reduction Algorithm for Reduction of Metagenomic DNA Digital Signature*** 5545
Jian Xue, *Jilin Univ.*
BeiHua Univ.
Fu Liu, *Jilin Univ.*
Tao Hou, *Jilin Univ.*
Haiwei Wu, *BeiHua Univ.*

MonBIS-59 ***SVM Modeling for Glutamic Acid Fermentation Process*** 5551
Guicheng Wang, *Shanghai Inst. of Tech.*
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MonBIS-60 ***The Tree Kinematics ModelingBased on Classical Mechanics*** 5556
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Bo Li, *Shenyang Inst. of Engineering*
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MonBIS-61 ***A Research of Improved Algorithm for GMM Voiceprint Recognition Model*** 5560
Jing Zhang, *Guangdong Univ. of Foreign Studies*
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MonBIS-62 ***The Dynamical Behavior Of A SEI Model:Acute And Chronic Stagesand Nonlinear Incidence Rate*** 5565
Yao Chen, *Science and Tech. Coll. of Hubei Univ. for Nationalities*

MonBIS-63 ***Mechanical Model of the Wheat and Analysis of Stem Lodging*** 5570
Qicheng Xu, *Shenyang Jianzhu Univ.*
Changchun Sun, *Shenyang Jianzhu Univ.*
Xiangyu Xing, *Shenyang Jianzhu Univ.*

MonBIS-64 ***Neural network H-infinity synchronization control for time delay chaotic neuronal systems*** 5575
Yanqiu Che, *Tianjin Univ. of Tech. and Education*
Bei Liu, *Tianjin Univ. of Tech. and Education*
Huiyan Li, *Tianjin Univ. of Tech. and Education*
Yingmei Qin, *Tianjin Univ. of Tech. and Education*
Chunxiao Han, *Tianjin Univ. of Tech. and Education*

MonBIS-65 ***A Computational Model for the Formation of Grid Field Based on Path Integration*** 5581
Naigong Yu, *Beijing Univ. of Tech.*
Lue Fang, *Beijing Univ. of Tech.*

MonBIS-67 ***Vibration EnergyGatheringPower Management System Based on DC/DC Boost Converter Circuit*** 5587
Qingxin Zhang, *Shenyang Aerospace Univ. Automation Inst.*
Li Yu, *Shenyang Aerospace Univ. Automation Inst.*
Yunhong Gao, *Shenyang Aerospace Univ. Automation Inst.*

Session	***MonC01: Optimal Control and Optimization (IV) (Chinese)***		
Date/Time	Monday, 30 May 2016 / 13:30-15:30		
Venue	Room 01		
Chair	***Cunwu Han***, ***North China University of Tech.***		
Co-Chair	***Baoqing Yang***, ***Harbin Institute of Tech.***		
13:30-13:50	***MonC01-1***	***Optimal Power and Rate Control for Wireless Communication Networks with External Disturbance*** 5592 Cunwu Han, ***North China University of Tech.*** Shurui Chang, ***North China University of Tech.*** Qi Diao, ***North China University of Tech.*** Lei Liu, ***North China University of Tech.*** Song Bi, ***North China University of Tech.*** Dehui Sun, ***North China University of Tech.***	
13:50-14:10	***MonC01-2***	***Firing logic design for ACS of missile with pulse jets*** 5596 Yaxing Zhang, ***Harbin Institute of Tech.*** Baoqing Yang , ***Harbin Institute of Tech.*** Xin Huo, ***Harbin Institute of Tech.*** Songlin Chen, ***Harbin Institute of Tech.***	
14:10-14:30	***MonC01-3***	***Inventory optimization for repairable spares with scrap during the mission*** 5602 Renyang Liu, ***Naval University of Engineering*** Qingmin Li, ***Naval University of Engineering*** Liang Zhou, ***Naval University of Engineering***	
14:50-15:10	***MonC01-5***	***Application of PSO-BP Neural Network in Main Steam Temperature Control*** 5607 Yong Zhang, ***University of Scie. and Tech.*** Jingeng Dang, ***University of Scie. and Tech.***	
15:10-15:30	***MonC01-6***	***Aeroengine Controller Design Based On Improved Particle Swarm Optimization*** 5612 Jiyang Dai, ***Nanchang Hangkong Univ.*** Fangting Huang, ***Nanchang Hangkong Univ.*** Jin Ying, ***Nanchang Hangkong Univ.*** Huazhu Luo, ***Nanchang Hangkong Univ.*** Li Ying, ***Nanchang Hangkong Univ.***	
Session	***MonC02: Variable Structure Control (I)***		
Date/Time	Monday, 30 May 2016 / 13:30-15:30		
Venue	Room 02		
Chair	***Qinglei Hu***, ***Beihang Univ.***		
Co-Chair	***Jianguo Guo***, ***Northwestern Polytechnical Univ.***		
13:30-13:50	***MonC02-1***	***Inertia-free Finite-time Attitude Control of Rigid Spacecraft with Reaction Wheels*** 5617 Xiao Tan, ***Beihang Univ.*** Qinglei Hu, ***Beihang Univ.***	

13:50-14:10	***MonC02-2***	***Sensorless control of the fault-tolerant permanent magnet motor based on sliding mode observer*** 5623 Hongfen Bai, *Dalian Maritime Univ.* Jingwei Zhu, *Dalian Maritime Univ.* Junfeng Qin, *Qinzhou Univ.*
14:10-14:30	***MonC02-3***	***Anticipating Synchronization of Chaotic Lur'e Systems via Output Feedback and Active Sliding Mode Control Schemes*** 5627 Liang Yang, *Beijing Institute of Aerospace Systems Engineering* Zhenhai Wanyan, *Beijing Institute of Aerospace Systems Engineering* Rongmei Nie, *Beijing Institute of Aerospace Systems Engineering* Jin Xiao, *Beijing Institute of Aerospace Systems Engineering*
14:30-14:50	***MonC02-4***	***Attitude Control for Reentry Reusable Launch Vehicle*** 5633 Jianguo Guo, *Northwestern Polytechnical Univ.* Guoqing Wang, *Northwestern Polytechnical Univ.* Jun Zhou, *Northwestern Polytechnical Univ.*
14:50-15:10	***MonC02-5***	***Control System of Permanent Magnet Synchronous Motor Based on Extended Sliding Mode State Observer*** 5637 Fenglong Shen, *Northeastern Univ.* *Eastern Liaoning Univ.* Jianhui Wang, *Northeastern Univ* Lang Liang, *Northeastern Univ*
15:10-15:30	***MonC02-6***	***System Identification and Sliding Mode Control Design for Electromechanical Actuator with Harmonic Gear Drive*** 5641 Jinpeng Yang, *China Academy of Aerospace Aerodynamics* Dong Liang, *China Academy of Aerospace Aerodynamics* Deyang Yu, *China Academy of Aerospace Aerodynamics* Tao Yang, *China Academy of Aerospace Aerodynamics* Fengqi Lang, *China Academy of Aerospace Aerodynamics*

Session	***MonC03: Identification and Estimation (II) (Chinese)***
Date/Time	Monday, 30 May 2016 / 13:30-15:30
Venue	Room 03
Chair	***Hongyan Guo***, *Jilin Univ.*
Co-Chair	***Xinwei Guo***, *Shandong Univ., Weihai*

13:30-13:50	***MonC03-1***	***Identification of Stochastic Systems with Colored Noise by the Model Equivalence Theory*** 5646 Dandan Meng, *Jiangnan Univ.* Feng Ding, *Jiangnan Univ.*
13:50-14:10	***MonC03-2***	***A Decomposition Based Recursive Least Squares Identificaiton Algorithm for Input Nonlinear Systems*** 5652 Huibo Chen, *Sanmenxia Polytechnic* *Jiangnan Univ.* Yongsong Xiao, *Jiangnan Univ.*
14:10-14:30	***MonC03-3***	***CBR-Based Grey Relational Identification Method for Technical Risks in Equipment Tests*** 5657 Hongfa Ke, *Equipment Academy* Jilu Zhu, *Equipment Academy* Hongmei Du, *Equipment Academy*

14:30-14:50	***MonC03-4***	***Modular Scheme for Vehicle Tire Forces and Velocities Estimation Based on Sliding Mode Observer*** 5661 Hongyan Guo, *Jilin Univ.* Biao Ma, *Jilin Univ.* Yingjun Ma, *Jilin Univ.* Hong Chen, *Jilin Univ.*
14:50:15:10	***MonC03-5***	***Subspace-Based System Identification for a Hovering Tiltrotor UAV Attitude Dynamics*** 5667 Chao Chen, *NUDT* Lincheng Shen, *NUDT* Daibing Zhang, *NUDT* Jiyang Zhang, *NUDT*
15:10-15:30	***MonC03-6***	***Identification of Julia sets of complex standard family*** 5672 Yongping Zhang, *Shandong Univ.* Xinwei Guo, *Shandong Univ., Weihai*

Session	***MonC04: Decision-Making Theory and Method (II)***
Date/Time	Monday, 30 May 2016 / 13:30-15:30
Venue	Room 04
Chair	***Quande***, *Qin Shenzhen Univ.*
Co-Chair	***Chunyu Gao***, *Beihang Univ.*

13:30-13:50	***MonC04-1***	***Discrete Choice Model of Customer Behavior and Empirical Study*** 5677 Wei Qi, *Northeastern Univ.* *Henan Univ.* Xinggang Luo, *Northeastern Univ.* Xuwang Liu, *Henan Univ.*
13:50-14:10	***MonC04-2***	***Mining Approximate Dependencies from Diesel Engine Assembling Data Using Clustering-based Rough Sets Theory*** 5683 Wenbing Chang, *Beihang Univ.* Chunyu Gao, *Beihang Univ.* Yiyong Xiao, *Beihang Univ.* Shenghan Zhou, *Beihang Univ.*
14:10-14:30	***MonC04-3***	***Behavioral Multi-Criteria Decision Making with Multi-Granularity 2-Dimension Fuzzy Linguistic Variables*** 5688 Li Li, *Shenzhen Univ.* Fuqi Liang, *Shenzhen Univ.* Quande Qin, *Shenzhen Univ.* Xin Li, *Shenzhen Univ.*
14:30-14:50	***MonC04-4***	***Line Differentiation Planning of Distribution Network Considering Weaknesses Assessment of Resilience*** 5695 Peng Jin, *Liaoning Provincial Power Grid Corp* Shuang Liu, *Northeastern Univ.* Kunya Guo, *Liaoning Provincial Power Grid Corp*
14:50:15:10	***MonC04-5***	***The method to evaluate the Command and Control Effectiveness of Operational System under Uncertain Threat Situation*** 5701 Danling Zhao, *National Univ. of Defense Tech.* Yajie Dou, *National Univ. of Defense Tech.* Qingsong Zhao, *National Univ. of Defense Tech.* Wanchan Zhan, *The 75711 troops in Chinese People's Liberation Army*

15:10-15:30	***MonC04-6***	***Rule induction of breast cancer medical diagnose based on combination of rough sets, artificial neutral network and genetic algorithm*** 5707 Ziqi Wang, ***Northeastern Univ.*** Xuefeng Zhang, ***Northeastern Univ.*** Wanyu Yang, ***Northeastern Univ.***

Session	***MonC05: Networked Control Systems (III) (Chinese)***
Date/Time	Monday, 30 May 2016 / 13:30-15:30
Venue	Room 05
Chair	***Xiaoming Tang***, ***Key Laboratory of Industrial Internet of Things and Networked Control Chongqing Unive. of Posts and Telecommunications***
Co-Chair	***Yi Yang***, ***Nantong Univ.***

13:30-13:50	***MonC05-1***	***H8 fuzzy predictive control of non-linear NCS with packet loss*** 5712 Jimin Yu, ***Key Laboratory of Industrial Internet of Things and Networked Control*** ***Chongqing Univ. of Posts and Telecommunications*** Xiaofei Huang, ***Key Laboratory of Industrial Internet of Things and Networked Control*** ***Chongqing Univ. of Posts and Telecommunications*** Xiaogang Gong, ***Key Laboratory of Industrial Internet of Things and Networked Control*** ***Chongqing Univ. of Posts and Telecommunications*** Xiaoming Tang, ***Key Laboratory of Industrial Internet of Things and Networked Control*** ***Chongqing Univ. of Posts and Telecommunications***
13:50-14:10	***MonC05-2***	***Stability Analysis of NCS under PID Control*** 5718 Ye Zhang, ***Nantong Univ.*** Yi Yang, ***Nantong Univ.*** Haiqin Gu, ***Nantong Univ.*** Yanjuan Lu, ***Nantong Univ.***
14:10-14:30	***MonC05-3***	***Stability of Model-Based Networked Control Singularly Perturbed Systems with Time-varying Transmission Times*** 5722 Hongwang Yu, ***Nanjing Audit Univ.*** Baoshan Zhang, ***Nanjing Audit Univ.***
14:30-14:50	***MonC05-4***	***Model-Based Event-Triggered Disturbance Rejection with Integral-Based Event Conditions*** 5726 Xiaoke Wang, ***Beihang Univ.*** Hao Yu, ***Beihang Univ.*** Fei Hao, ***Beihang Univ.***
14:50:15:10	***MonC05-5***	***A New Approach to Sampling-Dependent Stability for Sampled-Data Systems under Aperiodic Samplings*** 5732 Jianrong Zhao, ***Qufu Normal Univ.*** Hanyong Shao, ***Qufu Normal Univ.*** Dan Zhang, ***Qufu Normal Univ.***
15:10-15:30	***MonC05-6***	***PD-type Open-Closed-Loop Iterative Learning Control in the Networked Control System*** 5738 Shanhai Xiong, ***Beijing Univ. of Chemical Tech.*** Zhong Zhao, ***Beijing Univ. of Chemical Tech.*** Xin Zhou, ***Beijing Univ. of Chemical Tech.***

Session	***MonC06: DDCLS-Model-free Adaptive Control***
Date/Time	Monday, 30 May 2016 / 13:30-15:30
Venue	Room 06
Chair	***Shangtai Jin***, ***Beijing Jiaotong Univ.***
Co-Chair	***Ronghu Chi***, ***Qingdao Univ. of Science & Tech.***

13:30-13:45	***MonC06-1***	***A Novel Quadratic Programming Based Model-free Adaptive Control for I/O Constrained Nonlinear Systems*** 5745 Ronghu Chi, ***Qingdao Univ. of Science & Tech.*** Xiaohe Liu, ***Qingdao Univ. of Science & Tech.*** Ruikun Zhang, ***Qingdao Univ. of Science & Tech.***
13:45-14:00	***MonC06-2***	***Model Free Adaptive Predictive Control Approach for Phase Splits of Urban Traffic Network*** 5750 Shangtai Jin, ***Beijing Jiaotong Univ.*** Zhongsheng Hou, ***Beijing Jiaotong Univ.*** Ronghu Chi, ***Qingdao Univ. of Science and Tech.*** Xuhui Bu, ***Henan Polytechnic Univ.***
14:00-14:15	***MonC06-3***	***Stability Analysis of Full Form Dynamic Linearization Controller Based Data-driven Model Free Adaptive Control*** 5755 Yuanming Zhu, ***East China Univ. of Science and Tech.*** Shangtai Jin, ***Beijing Jiaotong Univ.***
14:15-14:30	***MonC06-4***	***A Novel Design of Iterative Learning Control with Pure Feedforward Structure*** 5761 Ronghu Chi, ***Qingdao Univ. of Science & Tech.*** Na Lin, ***Qingdao Univ. of Science & Tech.*** Zhongsheng Hou, ***Beijing Jiaotong Univ.*** Ruikun Zhang, ***Qingdao Univ. of Science & Tech.***
14:30-14:45	***MonC06-5***	***Initial Research on Stability Margin of Nonlinear Systems under Additive-State-Decomposition-Based Control Framework*** 5766 Jin-Rui Ren, ***Beihang Univ.*** Quan Quan, ***Beihang Univ.***
14:45-15:00	***MonC06-6***	***Model-Free adaptive Predictive Control for Non-circular Cutting Derived CNC System*** 5772 Junwei Dai, ***Beijing Information Science & Tech. Univ.*** Rongmin Cao, ***Beijing Information Science & Tech. Univ.*** Zhongsheng Hou, ***Beijing Jiaotong Univ.*** Yunjie Zhao, ***Beijing Information Science & Tech. Univ.***
15:00-15:15	***MonC06-7***	***Boost Converter Optimal Control Based on MFAC and FPSOA under Model Mismatch*** 5778 Zhanjun Huang, ***Northeastern Univ.*** Zhanshan Wang, ***Northeastern Univ.*** Cui Lei, ***Nanjing Research Inst. on Simulation Tech.*** Shijie Yan, ***Northeastern Univ.*** Huaguang Zhang, ***Northeastern Univ.***
15:15-15:30	***MonC06-8***	***A New Design Method of a Cascade Iterative Learning Control (ILC) for the Batch/Repetitive Processes*** 5784 Jia Shi, ***Xiamen Univ.*** Yi Yang, ***Kunda Mould (Shen Zhen) Co.Ltd.***

Session	***MonC07: DDCLS-Process Control***	
Date/Time	Monday, 30 May 2016 / 13:30-15:30	
Venue	Room 07	
Chair		
Co-Chair		
13:45-14:00	***MonC07-2***	***Robust output feedback based iterative learning control for batch processes with input delay subject to time-varying uncertainties*** 5790 Shoulin Hao, *Dalian University of Tech.* Tao Liu, *Dalian University of Tech.* Wei Wang, *Dalian University of Tech.*
14:00-14:15	***MonC07-3***	***Distributed Cooperative Learning Over Networks via Fuzzy Logic Systems*** 5796 Pengfei Ren, *Xidian Univ.* Weisheng Chen, *Xidian Univ.*
14:30-14:45	***MonC07-5***	***An integrated Model Predictive Control Strategy for Batch Processes*** 5802 Li Jia, *Shanghai Univ.* Chao Han, *Shanghai Univ.* Min-Sen Chiu, *National Univ. of Singapore*
14:45-15:00	***MonC07-6***	***Output Tracking Combing Output Redefinition and Non-causal Stable Inversion for Non-minimum Systems*** 5808 Xuehua Zhang, *Zhejiang Univ.* Shan Liu, *Zhejiang Univ.*
15:00-15:15	***MonC07-7***	***Gradient-based step response identification of low-order model for time delay systems*** 5814 Rui Yan, *Dalian Univ. of Tech.* Fengwei Chen, *Dalian Univ. of Tech.* Shijian Dong, *Dalian Univ. of Tech.* Tao Liu, *Dalian Univ. of Tech.*
15:15-15:30	***MonC07-8***	***All Parameters Adaptive Fractional Order PI/PD Type Iterative Learning Control*** 5820 Di Pan, *Shandong Univ.* Yan Li, *Shandong Univ.*
Session	***MonC08: DDCLS-Process Monitoring***	
Date/Time	Monday, 30 May 2016 / 13:30-15:30	
Venue	Room 08	
Chair		
Co-Chair		
13:30-13:45	***MonC08-1***	***Distributed Gaussian Mixture Model for Monitoring Multimode Plant-wide Process*** 5826 Jinlin Zhu, *Zhejiang Univ.* Zhiqiang Ge, *Zhejiang Univ.* Zhihuan Song, *Zhejiang Univ.*

13:45-14:00	***MonC08-2***	***Adaptive monitoring for transition process using dynamic mutual information similarity analysis*** 5832 Yuchen He, *Zhejiang Univ.* Zhiqiang Ge, *Zhejiang Univ.* Zhihuan Song, *Zhejiang Univ.*
14:00-14:15	***MonC08-3***	***Nonlinear Process Monitoring Using Improved Kernel Principal Component Analysis*** 5838 Chihang Wei, *Zhejiang Univ.* Junghui Chen, *Chung-Yuan Christian Univ.* Zhihuan Song, *Zhejiang Univ.*
14:15-14:30	***MonC08-4***	***SOM-based Visualization Monitoring and Fault Diagnosis for Chemical Process*** 5844 Bin Zhong, *Beijing Univ. of Chemical Tech.* Jing Wang, *Beijing Univ. of Chemical Tech.* Haiyan Wu, *Beijing Univ. of Chemical Tech.* Jinglin Zhou, *Beijing Univ. of Chemical Tech.* Qibing Jin, *Beijing Univ. of Chemical Tech.*
14:45-15:00	***MonC08-6***	***Adaptive HJI Sliding Mode Control of Three Dimensional Overhead Cranes*** 5850 Shengzeng Zhang, *Zhejiang Univ. of Tech.* Xiongxiong He, *Zhejiang Univ. of Tech.*
15:00-15:15	***MonC08-7***	***Design and Analysis of Data-driven Intelligent Control Systems for Deicing and Snow-Melting of Extremely Cold Areas*** 5856 Darong Huang, *Chongqing Jiaotong Univ.* Dong Zhao, *Chongqing Jiaotong Univ.* Xiaoyan Chu, *Central South Univ.* Huadong Wu, *Chongqing Wisdom. Q Heating Energy Equipment Company* Changsha Chen, *Chongqing Jiaotong Univ.*
15:15-15:30	***MonC08-8***	***Design of PID and ADRC Based Quadrotor Helicopter Control System*** 5860 Chenlu Wang, *Nankai Univ.* Zengqiang Chen, *Nankai Univ.* *Civil Aviation Univ.* Qinglin Sun, *Nankai Univ.* Qing Zhang, *Civil Aviation Univ.*

Session	***MonC09: Fuzzy Systems (I)***
Date/Time	Monday, 30 May 2016 / 13:30-15:30
Venue	Room 09
Chair	***Chuntao Shao***, *Harbin Inst. of Tech.*
Co-Chair	***Guolian Hou***, *North China electric power Univ.*

13:30-13:50	***MonC09-1***	***H8 Fuzzy Output Tracking Control of an Autopilot With Actuator Dynamics*** 5866 Ruoming Li, *Harbin Inst. of Tech.* Chuntao Shao, *Harbin Inst. of Tech.* Naizhang Feng, *Harbin Inst. of Tech.*

13:50-14:10	***MonC09-2***	***Variable universe fuzzy controller used in MPPT based on DFIG wind energy conversion system*** 5871 Guolian Hou, *North China electric power Univ.* Zhuo Jiang, *North China electric power Univ.* Yu Yang, *North China electric power Univ.* Jianhua Zhang, *North China electric power Univ.*
14:10-14:30	***MonC09-3***	***Reliable passive control for a class of T-S fuzzy systems with time-delay*** 5876 Hao Yan, *Shenyang Jianzhu Univ.* Fuzhong Wang, *Shenyang Jianzhu Univ.*
14:30-14:50	***MonC09-4***	***H-infinity Filtering for Gene Regulatory Networks With Time-Varying Delay Based on the T-S Fuzzy Model*** 5882 Liangliang Zhang, *Univ. of Electronic Science and Tech. of China* Hongbin Zhang, *Univ. of Electronic Science and Tech. of China*
14:50-15:10	***MonC09-5***	***Finite-time Dissipative Control for a Kind of Nonlinear System Based on T-S Fuzzy Model*** 5888 Enliang Zhao, *Shenyang Jianzhu Univ.* Baoyan Zhu, *Shenyang Jianzhu Univ.* Liha Sun, *Shenyang Jianzhu Univ.* Changchun Sun, *Shenyang Jianzhu Univ.* Chunling Chang, *Shenyang Jianzhu Univ.*
15:10-15:30	***MonC09-6***	***Optimization Control Strategy of Boiler Water Level Based on Fuzzy PID*** 5893 Lian Li Tianjin, *Univ. of Tech.* Wenkuan Ding, *Tianjin Univ. of Tech.*

Session	***MonC10: Neural Networks (IV) (Chinese)***
Date/Time	Monday, 30 May 2016 / 13:30-15:30
Venue	Room 10
Chair	***He Huang***, *Soochow Univ.*
Co-Chair	***Haoguang Chen***, *Guangdong Univ. of Tech*

13:30-13:50	***MonC10-1***	***Robust Finite-Time Stability of Uncertain Static Neural Networks With Markovian Jumping Parameters and Mixed Delays*** 5897 He Huang, *Soochow Univ.*
13:50-14:10	***MonC10-2***	***Extended dissipative analysis of delayed stochastic Markovian jump neural networks*** 5903 Guoliang Chen, *Liaocheng Univ.* Jianwei Xia, *Liaocheng Univ.* Hui Gao, *Liaocheng Univ.*
14:10-14:30	***MonC10-3***	***Modeling and Detection of Spike-type Stall in Axial Compressors via Deterministic Learning Theory*** 5909 Wenjie Si, *South China Univ. of Tech.* Feifei Yang, *South China Univ. of Tech.* Wei Zeng, *Longyan Univ.* Qian Wang, *South China Univ. of Tech.*
14:30-14:50	***MonC10-4***	***Adaptive Control Design for a Class of Nonlinear Systems Based on BP Neural Networks with Scalers and Saturators*** 5915 Haoguang Chen, *Guangdong Univ. of Tech.* Yinhe Wang, *Guangdong Univ. of Tech.* Pin Zhao, *Xi'an Univ. of Architecture and Tech.*

14:50-15:10	***MonC10-5***	***Hopf Bifurcation in Fractional-Order Recurrent Neural Networks*** 5921 Lingzhi Zhao, ***Southeast Univ.*** ***Nanjing Xiaozhuang Univ.*** Jinde Cao, ***Southeast Univ.*** Min Xiao, ***Nanjing Univ. of Posts and Telecommunications***
17:10-17:30	***MonC10-6***	***Synchronization of Coupled Neural Networks With Reaction-Diffusion Terms and Switching Topology*** 5927 Beibei Xu, ***Tianjin Polytechnic Univ.*** Yanli Huang, ***Tianjin Polytechnic Univ.*** Jinliang Wang, ***Tianjin Polytechnic Univ.*** Puchong Wei, ***Tianjin Polytechnic Univ.*** Shunyan Ren, ***Tianjin Polytechnic Univ.***

Session	***MonC11: Fault Diagnosis and Fault-Tolerant Control (IV) (Chinese)***
Date/Time	Monday, 30 May 2016 / 13:30-15:30
Venue	Room 11
Chair	***Xueqian Wang***, ***Tsinghua Univ.***
Co-Chair	***Zhifeng Gao***, ***Nanjing Univ. of Posts and Telecommunications***

13:30-13:50	***MonC11-1***	***Hybrid Model based Fault Tolerant Control for Quadrotor Helicopter with Structural Damage*** 5933 Yue Wang, ***The 28th Research Inst. of China Electronics Technology Group Corporation*** Jun Pan, ***The 28th Research Inst. of China Electronics Technology Group Corporation*** Bin Jiang, ***Nanjing Univ. of Aeronautics and Astronautics*** Ningyun Lu, ***Nanjing Univ. of Aeronautics and Astronautics***
13:50-14:10	***MonC11-2***	***Fault Tolerant Control Design for The Attitude Control Systems of Flexible Spacecraft with Sensor Faults*** 5939 Bing Han, ***Nanjing Univ. of Posts and Telecommunications*** Zhifeng Gao, ***Nanjing Univ. of Posts and Telecommunications*** Yufei Xu, ***Shanghai Inst. of Satellite Engineering*** Jing Zhao, ***Nanjing Univ. of Posts and Telecommunications*** Teng Cao, ***Nanjing Univ. of Posts and Telecommunications***
14:10-14:30	***MonC11-3***	***Decentralized fault diagnosis and fault tolerant control for a class of interconnected nonlinear systems*** 5945 Shuai Shao, ***Nanjing Univ. of Aeronautics and Astronautics*** Hao Yang, ***Nanjing Univ. of Aeronautics and Astronautics*** Bin Jiang, ***Nanjing Univ. of Aeronautics and Astronautics*** Wenjing Ren, ***Nanjing Univ. of Aeronautics and Astronautics***
14:30-14:50	***MonC11-4***	***Passive Fault Tolerant Control Approach for Hypersonic Vehicle with Actuator Loss of Effectiveness Faults*** 5951 Teng Cao, ***Nanjing Univ. of Posts and Telecommunications*** Zhifeng Gao, ***Nanjing Univ. of Posts and Telecommunications*** Moshu Qian, ***Nanjing Univ. of Aeronautics and Astronautics*** Jing Zhao, ***Nanjing Univ. of Posts and Telecommunications***
14:50-15:10	***MonC11-5***	***A Frequency Domain Feature Based Cascade Classifier and Its Application to Fault Diagnosis*** 5957 Liangmin Li, ***Tsinghua Univ.*** Weining Lu, ***Tsinghua Univ.*** Xueqian Wang, ***Tsinghua Univ.*** Zhiheng Li, ***Tsinghua Univ.***

Session	***MonC12: Robot Control (III)***
Date/Time	Monday, 30 May 2016 / 13:30-15:30
Venue	Room 12
Chair	***Tengfei Liu***, ***Northeastern Univ.***
Co-Chair	***Xiuxia Zhang***, ***Beifang Univ. of Nationalities*** ***HeFei Univ. of Tech.***

13:30-13:50 ***MonC12-1*** ***Robust Adaptive Attitude Control of Quadrotors with Load Uncertainties*** 5962
Zhanxiu Wang, ***Northeastern Univ.***
Shusen Liang, ***Northeastern Univ.***
Tengfei Liu, ***Northeastern Univ.***
Lei Zhang, ***Northeastern Univ.***

13:50-14:10 ***MonC12-2*** ***The Robot Motion Trajectory Algorithm Research Based On B-Spline and new Velocity Planning*** 5968
Buhai Shi, ***South China Univ. of Tech.***
Jingpeng He, ***South China Univ. of Tech.***

14:10-14:30 ***MonC12-3*** ***Research on Q-ELM Algorithm in Robot Path Planning*** 5975
Hongge Ren, ***North China Univ. of Science and Tech.***
Rui Yin, ***North China Univ. of Science and Tech.***
Fujin Li, ***North China Univ. of Science and Tech.***
Wei Wang, ***North China Univ. of Science and Tech.***
Meijie Huo, ***North China Univ. of Science and Tech.***

14:30-14:50 ***MonC12-4*** ***The Design of Underground Crop digging Robot and Its Control Method*** 5980
Xiuxia Zhang, ***Beifang Univ. of Nationalities***
HeFei Univ. of Tech.
Qianyu Ji, ***Beifang Univ. of Nationalities***
Shuyi Wei, ***Beifang Univ. of Nationalities***
Lingchun Zhang, ***Beifang Univ. of Nationalities***
Ziwei Zhao, ***HeFei Univ. of Tech.***

14:50:15:10 ***MonC12-5*** ***Solar photovoltaic array surface cleaning device and control means*** 5982
Xiuxia Zhang, ***HeFei Univ. of Tech.***
Beifang Univ. of Nationalities
Rong Fan, ***HeFei Univ. of Tech.***
Beifang Univ. of Nationalities
Wei Li, ***Beifang Univ. of Nationalities***
Shuyi Wei, ***Beifang Univ. of Nationalities***
Guannan Du, ***Beifang Univ. of Nationalities***
Lingchun Zhang, ***Beifang Univ. of Nationalities***
Haicheng Wei, ***Beifang Univ. of Nationalities***

15:10-15:30 ***MonC12-6*** ***Study on the Design and Control System for Wolfberry Harvesting Robot*** 5984
Xiuxia Zhang, ***Beifang Univ. of Nationalities***
HeFei Univ. of Tech.
Ziwei Zhao, ***Beifang Univ. of Nationalities***
HeFei Univ. of Tech.
ShuyiWei, ***Beifang Univ. of Nationalities***
Guannan Du, ***Beifang Univ. of Nationalities***
Qianyu Ji, ***Beifang Univ. of Nationalities***
Lingchun Zhang, ***Beifang Univ. of Nationalities***
Haicheng Wei, ***Beifang Univ. of Nationalities***

Session	***MonC13: Supply Chain and Logistics Management (Chinese)***
Date/Time	Monday, 30 May 2016 / 13:30-15:30
Venue	Room 13
Chair	***Yiming Chen***, ***Tsinghua Univ.***
Co-Chair	***Guohua Sun***, ***Shandong Univ. of Finance and Economics***

13:30-13:50 ***MonC13-1*** ***The Newsvendor Model with Futures Trading*** 5986
Yiming Chen, ***Tsinghua Univ.***
Shiji Song, ***Tsinghua Univ.***
Yuli Zhang, ***Tsinghua Univ.***

13:50-14:10 ***MonC13-2*** ***Research on the Profit Model of the Community Service Center Respecting for Sales and Recycling*** 5991
Heng Liu, ***Univ. of Chinese Acad. of Sciences***
Minhong Zhang, ***Univ. of Chinese Acad. of Sciences***

14:10-14:30 ***MonC13-3*** ***Research on Decision-making of Low-carbon Technology in Agricultural Product Supply Chain*** 5997
Guohua Sun, ***Shandong Univ. of Finance and Economics***

14:30-14:50 ***MonC13-4*** ***Spot Market Coping with Supply Disruption under Supply Chains Competition*** 6003
Fengmin Yao, ***Harbin Univ. of Science and Tech.***
Shan Liu, ***Harbin Univ. of Science and Tech.***
Wenhao Ni, ***Harbin Univ. of Science and Tech.***

14:50:15:10 ***MonC13-5*** ***A Prediction Model of Emergency Material Demand based on Case-Based Reasoning*** 6009
Xiaobo Wang, ***Heilongjiang Univ.***
Ping Sun, ***Heilongjiang Univ.***
Yan Yang, ***Heilongjiang Univ.***
Xiaochun Yang, ***Heilongjiang Univ.***

15:10-15:30 ***MonC13-6*** ***Research of E-commerce Logistics Based on the Network Information Era*** 6014
Song Zhang, ***Northeastern Univ.***
Hongfeng Wang, ***Northeastern Univ.***
Min Huang, ***Northeastern Univ.***

Session	***MonC14: Renewable Energies***
Date/Time	Monday, 30 May 2016 / 13:30-15:30
Venue	Room 14
Chair	***Aimin An***, *Lanzhou Univ. of Tech.*
Co-Chair	***Rui Zhao***, *Univ. of Science and Tech. Beijing*

13:30-13:50	***MonC14-1***	***Generalized Wake Interaction Models and Optimal Control in Wind Farms*** 6020 Lin Pan, *Univ. of Luxembourg* *Wuhan Polytechnic Univ.* Holger Voos, *Univ. of Luxembourg* Yongping Pan, *National Univ. of Singapore* Mohamed Darouach, *Univ. of Lorraine*
13:50-14:10	***MonC14-2***	***The Study of Wind Power Predict Model Based on Wavelet Transform and Elman Neural Network*** 6026 Rui Zhao, *Univ. of Science and Tech. Beijing*
14:10-14:30	***MonC14-3***	***Benefit Analysis and Evaluation of Distributed Generation in Distribution Network under Active Management*** 6031 Aimin An, *Lanzhou Univ. of Tech.* Borui Zheng, *Lanzhou Univ. of Tech.* Haochen Zheng, *Lanzhou Univ. of Tech.* Chendong Zheng, *Lanzhou Univ. of Tech.* Peidong Du, *Inst. of Electric Power Scientific Research, State Grid of Gansu Province*
14:30-14:50	***MonC14-4***	***Research and simulation of circulation current control for grid tied inverters connected in parallel*** 6036 Li Liu, *Wuhan Univ. of Tech.* Zhiqiang Liu, *Wuhan Univ. of Tech.* Qihong Chen, *Wuhan Univ. of Tech.*
14:50:15:10	***MonC14-5***	***A New Method to Judge Clouds Covering Based on Particle Filter Shuiliang Zhou Nanjing Normal Univ.*** 6042 Weijie Ding, *Nanjing Normal Univ.* Xuemei Zhu, *Nanjing Normal Univ.* Jun Tian, *Zhejiang Supcon Solar Tech. Co., Ltd.*
15:10-15:30	***MonC14-6***	***Research on Industrial Park of Low Carbon Energy Innovation in China*** 6048 Xuguang Zhao, *Tianjin Univ. of Tech.* Conggong An, *Tianjin Univ. of Tech.* Xuechan Li, *Tianjin Univ. of Tech.*

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Date/Time	Monday, 30 May 2016 / 13:30-15:30
Venue	Room 15

MonCIS-01 ***Analysis of Recent Secure Scan Test Techniques*** 6051
Xing Cheng, *Univ. of Science and Tech. Liaoning*
Sungju Park, *Hanyang Univ.*

MonCIS-02 ***A Pedestrian Detection Method based on PSO and Multimodal Function*** 6054
Weixing Li, *Beijing Inst. of Tech.*
Weliang Ma, *Beijing Inst. of Tech.*
Bing Quan, *Beijing Inst. of Tech.*
Mengxin Pei, *Beijing Inst. of Tech.*
Xiaoxue Feng, *Beijing Inst. of Tech.*

MonCIS-03 ***Research on Moving Object ExtractionMethod in Intelligent Traffic Video*** 6059
Yue Li, *Kunming Univ. of Science and Tech.*
Jiande Wu, *Kunming Univ. of Science and Tech.*
Engineering Research Center for Mineral Pipeline Transportation of Yunnan Province
Xiaodong Wang, *Engineering Research Center for Mineral Pipeline Transportation of Yunnan Province*

MonCIS-04 ***Research on Subway Passenger FlowCombination Prediction Model Based on RBF Neural Networks and LSSVM*** 6064
Pu Wang, *Beijing Univ. of Tech.*
Engineering Research Centerof Digital Community, Ministry of Education
Beijing Laboratory for Urban Mass Transit
Beijing Key Lab. of Computational Intelligence and Intelligent System
Cuixia Wu, *Beijing Univ. of Tech.*
Engineering Research Centerof Digital Community, Ministry of Education
Beijing Laboratory for Urban Mass Transit
Beijing Key Lab. of Computational Intelligence and Intelligent System
Xuejin Gao, *Beijing Univ. of Tech.*
Engineering Research Centerof Digital Community, Ministry of Education
Beijing Laboratory for Urban Mass Transit
Beijing Key Lab. of Computational Intelligence and Intelligent System

MonCIS-05 ***Design and Simulation of hierarchical control algorithm for Electric Active Stabilizer Bar System*** 6069
Zhenxing Kong, *Nanjing Univ. of Science and Tech.*
Dawei Pi, *Nanjing Univ. of Science and Tech.*
Shan Chen, *Nanjing Univ. of Science and Tech.*
Hongliang Wang, *Nanjing Univ. of Science and Tech.*
Xianhui Wang, *Nanjing Univ. of Science and Tech.*

MonCIS-06 ***A Technical Solution to Improve the Red Cab for Touring in Chiang Mai: Chinese Tourists' Perspective*** 6075
Miao Liu, *Beifang Univ. of Nationalities*
Noppon Choosri, *Chiang Mai Univ.*

MonCIS-07 ***A Novel Robust Method for Camera Auto-Calibration in Transportation Surveillance*** 6081
Xiaohan Li, *Tsinghua Univ.*
Yu Cheng, *IBM T.J. Watson Research Center*
Tao Zhang, *Tsinghua Univ.*

MonCIS-08 ***Research of Optimal Parameters in MOSFET Structure based on Wide Band Gap Semiconductor Material GaN*** 6086
Hongyuan Shen, *Northeastern Univ*
Jie Yang, *Northeastern Univ*
Zhenyu Yuan, *Northeastern Univ*
Ning Ye, *Northeastern Univ*
Jia Di, *Univ. of Arkansas*
Jingyan Mo, *Shanghai Univ.*

MonCIS-09 ***Key Technology of Affecting the Quality and Cost of Solid Sealed Pole*** 6090
Hongkui Zhang, *CCTEG Shenyang Research Inst.*
Fucheng Lang, *Electric Power Research Inst. of State Grid Liaoning Electric Power Co., Ltd.*
High Voltage and Large Current Lab. of State Grid Corporation

MonCIS-10 ***Optimal Dispatching Strategies of Active Power for DFIG Wind Farm Based On GA Algorithm*** 6094
Xiaojie Zhang, *Beijing Jiaotong Univ.*
Wenchuan Cai, *Beijing Jiaotong Univ.*
Zhongxue Gan, *ENN Group Company, Ltd.*

MonCIS-11 ***The Fuzzy Droop Control Design for Storage System of DC Microgrid*** 6100
Yang Mi, *Tianjin Univ.*
Shanghai Univ. of Electric Power
Yanwei Wu, *Shanghai Univ. of Electric Power*
Chunyan Bi, *Rizhao xingye real estate development Co Ltd*
Yinzhu Zhu, *Shanghai Univ. of Electric Power*
Shengyi Wang, *Shanghai Univ. of Electric Power*
Han Zhang, *State Grid Shanghai Shinan Electric Power Supply Company*
Yuanwei Jing, *Northeastern Univ.*

MonCIS-12 ***Study on Smooth Switching of Microgrid Operation States Using Sliding Mode Control*** 6105
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Shanghai Univ. of Electric Power
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MonCIS-15 ***Research on Control Technology for Grid-side Converter of Direct-drive Wind Power Generation System*** 6122
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Miao Li, *Training Center of Jilin Province, State Grid Corporation of China*
Hongguang Xiao, *Training Center of Jilin Province, State Grid Corporation of China*
Wei Gao, *Training Center of Jilin Province, State Grid Corporation of China*
Lijuan Li, *Training Center of Jilin Province, State Grid Corporation of China*

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Jian Liu, *Jilin Province Economic Management Cadre Inst.*
Xuting Yan, *Jilin power distribution automation equipment industry public Tech. Research and Development Center*
Hui Wang, *Jilin power distribution automation equipment industry public Tech. Research and Development Center*

MonCIS-18 ***Flow Analysis and Calculation of AC/DC Power System Based on MATLAB and PSASP*** 6138
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Distribution Automation Engineering Research Center
Shuntao Xing, *Changchun Inst. of Tech.*
Hang Li, *Huaneng Changchun Thermal Power Plant*
Xiu Ji, *Changchun Inst. of Tech.*
Distribution Automation Engineering Research Center

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MonCIS-20 ***The Innovation Research of Low Carbon Building Energy*** 6150
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MonCIS-21 ***Effect of various Nano-SiC films onthe photoelectric conversion efficiency of solar cells*** 6153
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Shuyi Wei, *Beifang Univ. of nationalities*
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Haicheng Wei, *Beifang Univ. of nationalities*

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Xinjing Zou, *Inst. of Electrical Engineering, Chinese Acad. of Sciences*
Haitao Liu, *Inst. of Electrical Engineering, Chinese Acad. of Sciences*

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Power Company of China State Grid Corporation
Jun Zhang, *Enshi Power Supply Bureau in Hubei Electric*
Power Company of China State Grid Corporation
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Shaowu Li, *Northeastern Univ.*
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Feifei Jiang, *Inst. of Electrical Engineering, Chinese Acad. of Sciences*
Haitao Liu, *Inst. of Electrical Engineering, Chinese Acad. of Sciences*

MonCIS-27 ***Control of Doubly-fed Wind Power Generation System Based on Two-stage Matrix Converter*** 6177
Junrui Wang, *North Univ. for Ethnics*
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Taiyuan Univ. of science and tech.
Jili Tao, *Zhejiang Univ.*
Ridong Zhang, *Hangzhou Dianzi Univ.*

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Yanjuan Wu, *Tianjin Univ. of Tech.*
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Shidong Song, *Xi'an City Planning & Design Inst.*
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Lei Wei, *State Grid Shaanxi Economic Research Inst.*
Ning Jiang, *State Grid Shaanxi Economic Research Inst.*
Honggang Jia, *State Grid Shaanxi Economic Research Inst.*
Na Yan, *State Grid Shaanxi Economic Research Inst.*

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Wei Wang, *Beihang Univ.*

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Daqing Zhang, *Univ. of Science and Tech. Liaoning*
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Xiaolong Chen, *Beijing Jiaotong Univ.*

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Xincheng Cao, ***North Univ. for Ethnics***
Xuanwei Ji, ***North Univ. for Ethnics***
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Jinglin Liu, ***Suzhou Univ. of Science and Tech.***
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Lin Chen, ***Suzhou Univ. of Science and Tech.***

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Yahui Wang, ***Beijing Univ. of Civil Engineering and Architecture***
Yuexiao Liu, ***Beijing Univ. of Civil Engineering and Architecture***
Fangwen Cheng, ***Beijing Univ. of Civil Engineering and Architecture***

MonCIS-54 ***A Routing Decision Algorithm Based on the Trunk Link for Smart City*** 6305
Hong Huo, ***Shenyang Inst. of Computing Tech., Chinese Acad. of Sciences***
Baoming Pu, ***Shenyang Inst. of Computing Tech., Chinese Acad. of Sciences***
Northeastern Univ.
Dongsheng Yang, ***Shenyang Inst. of Computing Tech., Chinese Acad. of Sciences***
Xiangze Li, ***Northeastern Univ.***

MonCIS-55 ***The High Pressure Water Mist Fire Extinguishing System Based on Anylogic Modeling*** 6311
Fei Bao, ***Beijing Univ. of Civil Engineering and Architecture***
Yuling Hu, ***Beijing Univ. of Civil Engineering and Architecture***

MonCIS-56 ***Design of Three-Phase Grid-connected Photovoltaic Generation System Based on DSP*** 6316
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MonCIS-57 ***The Design of Emergency Management Plan Library for Urban Fuel Gas System Using Case-based Reasoning Method*** 6322
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Conglei Zhang, ***Beijing Univ. of Civil Engineering and Architecture***
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Sumin Lei, ***Beijing Gas Group Ltd.***

MonCIS-58 ***Designation of Laser Rapid Prototyping Machine Based on ACS Motion Controller*** 6328
Eryu Zhang, ***Beijing Univ. of Civil Engineering and Architecture***
Beijing Key Laboratory of Robot Bionics and Function Research
Xingang Miao, ***Beijing Univ. of Civil Engineering and Architecture***
Beijing Key Laboratory of Robot Bionics and Function Research

MonCIS-59 ***On Model Parameters Identificationand Fuzzy Self-adaptive Course Control for USV*** 6332
Yunsheng Fan, ***Dalian Maritime Univ.***
Xiaojie Sun, ***Dalian Maritime Univ.***
Guofeng Wang, ***Dalian Maritime Univ.***

MonCIS-60 ***An Intelligent Visual Line Tracking System Via Quadrotor Platform*** 6339
Yaoxian Song, ***Hangzhou Dianzi Univ.***
Yinqiu Wang, ***Hangzhou Dianzi Univ.***
Jian Wang, ***Hangzhou Dianzi Univ.***
Zhixun Li, ***Australian National Univ.***
Gao Li, ***Hangzhou Dianzi Univ.***
Fengmin Yu, ***Hangzhou Dianzi Univ.***

MonCIS-61 ***Disturbance Observer Based Backstepping Sliding Mode Dynamic Positioning Control for UUV under Wave Disturbance*** 6345
Jian Xu, ***Harbin Engineering Univ.***
Xiaofeng Kang, ***Harbin Engineering Univ.***
Xiaoyuan Chen, ***Harbin Engineering Univ.***

MonCIS-62 ***Research on the Algorithm of Cooperative Localization of Multiple Unmanned Vehicles*** 6350
Shiyan Sun, ***Naval Univ. of Engineering***
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MonCIS-63 ***Autonomous Optical Navigation Approach Aided by Radio Beacon for Deep Space Spacecraft*** 6354
Yan Jing, *Beijing Inst. of Tech.*
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Key Laboratory of Dynamics and Control of Flight Vehicle, Ministry of Education
Shengying Zhu, *Beijing Inst. of Tech.*
Key Laboratory of Autonomous Navigation and Control for Deep Space Exploration, Ministry of Industry and Information Tech.
Key Laboratory of Dynamics and Control of Flight Vehicle, Ministry of Education
Lina Wang, *National Key Laboratory of Science and Tech. on Aerospace Intelligence Control*

MonCIS-64 ***A Quadrotor-like Unmanned Underwater Vehicle*** 6360
Jingwei Bian, *Zhejiang Univ.*
Ji Xiang, *Zhejiang Univ.*
Huilin Liang, *Zhejiang Univ.*

MonCIS-65 ***A 6D-ICP approach for 3D reconstructionand motion estimate of unknown and non-cooperative target*** 6366
Ke Wang, *Harbin Inst. of Tech.*
Hong Liu, *Harbin Inst. of Tech.*
Bensheng Guo, *Harbin Inst. of Tech.*
Yunfeng Gao, *Harbin Inst. of Tech.*

MonCIS-66 ***Non-Cooperative Target Tracking Methods Research for Close-range Operation of Intelligent Space Robots*** 6371
Ke Wang, *Harbin Inst. of Tech.*
Hong Liu, *Harbin Inst. of Tech.*
Bensheng Guo, *Harbin Inst. of Tech.*
Yunfeng Gao, *Harbin Inst. of Tech.*
Ruifeng Li, *Harbin Inst. of Tech.*

MonCIS-67 ***Three-Dimensional Path Planning of Unmanned Aerial Vehicle under Complicated Environment*** 6377
Jihua Tao, *HangZhou DianZi Univ.*
Yinqiu Wang, *HangZhou DianZi Univ.*
Huanhuan Yang, *HangZhou DianZi Univ.*
Li Gao, *HangZhou DianZi Univ.*

Session	MonD01: Optimal Control and Optimization (V) (Chinese)
Date/Time	Monday, 30 May 2016 / 15:50-17:50
Venue	Room 01
Chair	**Yuanli Cai**, *Xi'an Jiao Tong Univ.*
Co-Chair	**Liuyu Huang**, *Xidian Univ.*

15:50-16:10 ***MonD01-1*** ***PID control parameters optimize based on an immune fruit fly optimization algorithm*** 6383
Juan Song, ***Ningxia Univ.***
Huan Pan, ***Ningxia Univ.***

16:10-16:30 ***MonD01-2*** ***Optimal Control of UAV Elastic Formation based on Legendre Pseudospectral Method*** 6389
Guangyan Xu, ***Shenyang Aerospace Univ.***
Dan Zhao, ***Shenyang Aerospace Univ.***
Peichong Liao, ***Shenyang Aerospace Univ.***
Guangpu Shi, ***Shenyang Aerospace Univ.***

16:30-16:50 ***MonD01-3*** ***A Genetic Algorithm for Solving Multistage Graph Problem*** 6395
Jinqing Tian, ***North University for Nationalities***
Xiaofeng Wang, ***North University for Nationalities***
Hongsheng Ding, ***North University for Nationalities***

16:50-17:10 ***MonD01-4*** ***On the Right Spread of Quaternion Circulatory Linear Systems and Its Calculation Method*** 6399
Liuyu Huang, ***Xidian Univ.***

17:10-17:30 ***MonD01-5*** ***State Space Description Based Predictive Control for Normal Temperature Continuous Transonic Wind Tunnel*** 6404
Yaohua Tang, ***State Grid Henan Electric Power Research Inst.***
Hongxia Li, ***Xi'an Jiao Tong Univ.***
Yuanli Cai, ***Xi'an Jiao Tong Univ.***

17:30-17:50 ***MonD01-6*** ***Optimal Inventory Control of Spare Parts Based on Storage Availability*** 6409
Liang Zhou, ***Naval University of Engineering***
Qingmin Li, ***Naval University of Engineering***
Renyang Liu, ***Naval University of Engineering***

Session	***MonD02: Motion Control (I)***
Date/Time	Monday, 30 May 2016 / 15:50-17:50
Venue	Room 02
Chair	***Zhenghao Jin***, ***Beihang Univ.***
Co-Chair	***Jianqin Wang***, ***Shanghai Jiao Tong Univ.***

15:50-16:10 ***MonD02-1*** ***Relative Motion Modeling and Control for Autonomus UAV Carrier Landing*** 6415
Ming Zhu, ***Beihang Univ.***
Zhenghao Jin, ***Beihang Univ.***
Zewei Zheng, ***Beihang Univ.***
Liang Sun, ***Beihang Univ.***

16:10-16:30	***MonD02-2***	***Research on Rotor Field-Oriented Vector Control of PMSM for Aircraft Electro-Mechanical Actuator*** 6422 Qi Liu, ***Northwestern Polytechnical Univ.*** Yong Zhou, ***Northwestern Polytechnical Univ.*** Chao Zhang, ***Northwestern Polytechnical Univ.*** Man Wang, ***Northwestern Polytechnical Univ.***
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16:50-17:10	***MonD02-4***	***Course Control of USV Based on Fuzzy Adaptive Guide Control*** 6433 Dongdong Mu, ***Dalian Maritime Univ.*** Yongsheng Zhao, ***Dalian Maritime Univ.*** Guofeng Wang, ***Dalian Maritime Univ.*** Yunsheng Fan, ***Dalian Maritime Univ.*** Yiming Bai, ***Dalian Maritime Univ.***
17:10-17:30	***MonD02-5***	***Flux weakening speed control of non-salient pole Permanent Magnet Synchronous Motor based on PCH and L2 gain*** 6438 Haisheng Yu, ***Qingdao Univ.*** Zihan Wang, ***Qingdao Univ.*** Yang Zhao, ***Qingdao Univ.*** Hongchao Xie, ***Qingdao Univ.*** Ying Zhang, ***Qingdao Univ.***
17:30-17:50	***MonD02-6***	***A Nonlinear Heading Controller Based on ESO for a Ship Sailing in Restricted Waters*** 6443 Jianqin Wang, ***Shanghai Jiao Tong Univ.*** Zaojian Zou, ***Shanghai Jiao Tong Univ.***

Session	***MonD03: Nonlinear Systems (V) (Chinese)***
Date/Time	Monday, 30 May 2016 / 15:50-17:50
Venue	Room 03
Chair	***Xiaohua Li***, ***Univ. of Science and Tech. Liaoning***
Co-Chair	***Yanxia Hu***, ***North China Electric Power Univ.***

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16:10-16:30	***MonD03-2***	***Switched Dynamic Modelling and Energy-based Excitation Control of Multi-machine Power Systems*** 6456 Jianyong Li, ***Zhengzhou Univ. of Light Industry*** Huige Shi, ***State Grid Nanyang Electric Power Supply Company*** Yanhong Liu, ***Zhengzhou Univ.***
16:30-16:50	***MonD03-3***	***Oscillation of Certain Nonlinear Neutral Hyperbolic Partial Functional Differential Equations with Continuous Deviating Arguments*** 6462 Wenxian Lin, ***Hanshan Normal Univ.***

16:50-17:10 ***MonD03-4*** ***Decentralized Prescribed Performance Adaptive Output Feedback Control for Nonlinear Systems with Unknown Dead-Zone*** 6468
Shi Li, ***Yangzhou Univ.***
Tianping Zhang, ***Yangzhou Univ.***
Jiwei Ge, ***Yangzhou Univ.***
Min Wang, ***Yangzhou Univ.***
Bei Xue, ***Yangzhou Univ.***

17:10-17:30 ***MonD03-5*** ***Lie symmetry analysis and exact solutions to a class of new KdV-Burgers-Kuramoto type equation*** 6474
Yanxia Hu, ***North China Electric Power Univ.***

17:30-17:50 ***MonD03-6*** ***Semi-Global Output Feedback Stabilization of Upper-Triangular Systems with Uncertain Output Function*** 6479
Xianglei Jia, ***Nanjing Univ. of Science and Tech.***
Weimin Chen, ***Nanjing Univ. of Science and Tech.***
Zhengfan Liu, ***North Information Control Group Limited Company***

Session	***MonD04: Decision-Making Theory and Method (III)***
Date/Time	Monday, 30 May 2016 / 15:50-17:50
Venue	Room 04
Chair	***Xuefeng Lu***, ***Beihang Univ.***
Co-Chair	***Tengteng Qin***, ***North China Electric Power Univ.***

15:50-16:10 ***MonD04-1*** ***Quality Evaluation on Diesel Engine with Improved TOPSIS Based on Information Entropy*** 6485
Wenbing Chang, ***Beihang Univ.***
Xuefeng Lu, ***Beihang Univ.***
Shenghan Zhou, ***Beihang Univ.***
Yiyong Xiao, ***Beihang Univ.***

16:10-16:30 ***MonD04-2*** ***Complementary Triangular Hesitant Fuzzy Preference Relations and Their Application in Multiple Attribute Group Decision-Making*** 6491
Junhua Hu, ***Central South Univ.***
Yan Yang, ***Central South Univ.***

16:30-16:50 ***MonD04-3*** ***Competitive Ability Eva luation for Generation Enterp rises Based on Combinational Weight and Improved TOPSIS*** 6497
Le Wei, ***North China Electric Power Univ.***
Tengteng Qin, ***North China Electric Power Univ.***
Yuanyuan Yan, ***North China Electric Power Univ.***
Junhong Hou, ***North China Electric Power Univ.***
Zhaoxiong Yuan, ***North China Electric Power Univ.***

16:50-17:10 ***MonD04-4*** ***An improved supplier selection model for equipment R&D project with independent fuzzy cost information*** 6502
Yue Xie, ***Beihang Univ.***
Shenghan Zhou, ***Beihang Univ.***
Wenbing Chang, ***Beihang Univ.***
Jun Zhao, ***Beihang Univ.***

17:10-17:30 ***MonD04-5*** ***Research on Personalized Recommendation Optimization of E-commerce System Based on Customer Trade Behaviour Data*** 6506
Minghai Jiao, ***Northeastern Univ.***
Xiaofang Chen, ***Northeastern Univ.***
Zhonghai Su, ***Northeastern Univ.***
Xu Chen, ***Northeastern Univ.***

17:30-17:50	***MonD04-6***	***Evaluating on Online Services Based on Social Choice Theory*** Wei Li, *Kunming Univ. of Science and Tech.* Xiaodong Fu, *Kunming Univ. of Science and Tech.* Qingsong Huang, *Kunming Univ. of Science and Tech.* Li Liu, *Kunming Univ. of Science and Tech.*	6512

Session	***MonD05: Sensor Network Systems (III) (Chinese)***
Date/Time	Monday, 30 May 2016 / 15:50-17:50
Venue	Room 05
Chair	***Chengyang Xie***, *East China Univ. of Science & Tech.*
Co-Chair	***Yueyang Huang***, *Northeastern Univ.* *Liaoning Shihua Univ.*

16:10-16:30	***MonD05-2***	***An Indoor Mobile Localization Strategy Based on Particle Filter in NLOS Environment*** Yueyang Huang, *Northeastern Univ.* *Liaoning Shihua Univ.* Siying Zhang, *Northeastern Univ.* Yuanwei Jing, *Northeastern Univ.*	6518
16:30-16:50	***MonD05-3***	***CSI-based Autoencoder Classification for Wi-Fi Indoor Localization*** Chengcheng Xu, *Northeastern Univ.* Zixi Jia, *Northeastern Univ.* Pan Chen, *Northeastern Univ.* Bo Wang, *Northeastern Univ.*	6523
16:50-17:10	***MonD05-4***	***Optimal Node Deployment Scheme for WSN-Based Railway Environment Monitoring System*** Jiaying Duan, *China Academy of Railways Sciences* Tianyun Shi, *China Academy of Railways Sciences* Xiaojun Lv, *China Academy of Railways Sciences* Zhi Li, *China Academy of Railways Sciences*	6529
17:10-17:30	***MonD05-5***	***Thinking about the Relationship between IT and food safety*** Jiapei Li, *Dalian Univ. of Tech.* Chunjie Li, *Dalian Univ. of Tech.* *Bohai Univ.*	6535
17:30-17:50	***MonD05-6***	***Acoustic Source Localization Based Quantized Information for Wireless Sensor Networks*** Yunting Liu, *Shenyang Ligong Univ.* Hui Guo, *Shenyang Univ. of Tech.* Yuanwei Jing, *Shenyang Ligong Univ.*	6541

Session	***MonD06: DDCLS-Nonlinear System Control***
Date/Time	Monday, 30 May 2016 / 15:50-17:50
Venue	Room 06
Chair	
Co-Chair	

15:50-16:05	***MonD06-1***	***Observer-Based Fuzzy Tracking Control for Switched Stochastic Nonlinear Systems*** Ben Niu, *Dalian Univ. of Tech.* Yanli Liu, *Dalian Univ. of Tech.* Huan Li, *Dalian Univ. of Tech.*	6545

16:05-16:20 ***MonD06-2*** ***Twin Pinball Loss Support Vector Hyper-sphere Classifier for Pattern Recognition*** 6551
Rongfen Gong, ***Northeastern Univ.***
Univ. of Science and Tech. Liaoning
Chengdong Wu, ***Northeastern Univ.***
Maoxiang Chu, ***Univ. of Science and Tech. Liaoning***
Huanqing Wang, ***Bohai Univ.***

16:20-16:35 ***MonD06-3*** ***Further Results on Additive-State-Decomposition-Based Output Feedback Tracking Control for a Class of Uncertain Nonminimum Phase Nonlinear Systems*** 6557
Zi-Bo Wei, ***Beihang Univ.***
Jin-Rui Ren, ***Beihang Univ.***
Quan Quan, ***Beihang Univ.***

16:35-16:50 ***MonD06-4*** ***A Self-adaptive Local Feature Extraction Based Magnetic Resonance Imaging*** 6563
Jun Zhang, ***Zhejiang Univ. of Tech.***
Tiantian Xu, ***Zhejiang Univ. of Tech.***
Yuanjing Feng, ***Zhejiang Univ. of Tech.***
Ye Wu, ***Zhejiang Univ. of Tech.***
Yongqiang Li, ***Zhejiang Univ. of Tech.***
Jianzhong He, ***Zhejiang Univ. of Tech.***
Siqi Zhou, ***Zhejiang Univ. of Tech.***

16:50-17:05 ***MonD06-5*** ***Multiple-mode switched observer-based unknown input estimation for a class of switched systems*** 6568
Yantao Chen, ***Henan Polytechnic Univ.***
Junqi Yang, ***Henan Polytechnic Univ.***
Donglei Xie, ***Henan Polytechnic Univ.***
Wei Zhang, ***Shanghai Univ. of Engineering Science***

17:05-17:20 ***MonD06-6*** ***A combined data-driven, robust-estimator and parameter-learning methodology for sensor fault compensation*** 6574
Ke-Zhen Han, ***Northeastern Univ.***
Jian Feng, ***Northeastern Univ.***

17:20-17:35 ***MonD06-7*** ***Consensus Tracking of Multi-Agent Systems with Constrained Time-delay by Iterative Learning Control*** 6580
Yongil Ri, ***Shanghai Univ.***
Yong Fang, ***Shanghai Univ.***
Hongwen Yu, ***Shanghai Univ.***

Session	***MonD07: DDCLS-Iterative Learning Control (III)***
Date/Time	Monday, 30 May 2016 / 15:50-17:50
Venue	Room 07
Chair	
Co-Chair	

15:50-16:05 ***MonD07-1*** ***Brief Review on Sampled-Data Iterative Learning Control*** 6586
Dong Shen, ***Beijing Univ. of Chemical Tech.***
Yun Xu, ***Beijing Univ. of Chemical Tech.***

16:05-16:20	***MonD07-2***	***Iterative Learning Control for Linear Discrete-Time Systems with Iteration-varying initial state and Packet Loss*** 6592 Qiao Zhu, *Southwest Jiaotong Univ.* Jun-Zhou Yue, *Southwest Jiaotong Univ.* Guang-Di Hu, *Southwest Jiaotong Univ.* Neng Xiong, *Southwest Jiaotong Univ.*
16:20-16:35	***MonD07-3***	***Convergence Properties of PDD-Type Iterative Learning Control for Discrete-Time Systems in Frequency Domain*** 6598 Xiaohui Li, *Xi'an Jiaotong Univ.* Xiaoe Ruan, *Xi'an Jiaotong Univ.*
16:35-16:50	***MonD07-4***	***Previous best input based first order D-type iterative learning control for nonlinear system with high order relative degree*** 6604 Yi Liu, *Zhejiang Univ.* Shan Liu, *Zhejiang Univ.*
17:20-17:35	***MonD07-7***	***Iterative Learning Consensus Control for Multi-Agent Systems under Independent Position and Velocity Topologies*** 6609 Jiaxian Wang, *Xidian Univ.* Lin Zhang, *Xidian Univ.* Junmin Li, *Xidian Univ.* Jinsha Li, *Xidian Univ.*
17:35-17:50	***MonD07-8***	***An Iterative Learning Control Approach for Two Dimensional Discrete Fornasini-Mrchesini Model*** 6615 Kai Wan, *Sun Yat-Sen Univ.* Xiao-Dong Li, *Sun Yat-Sen Univ.*

Session	***MonD08: Best Paper Award***
Date/Time	Monday, 30 May 2016 / 15:50-17:50
Venue	Room 08
Chair	
Co-Chair	

15:50-16:10	***MonD08-1***	***Data Driven Multiagent Systems Consensus Tracking Using Model Free Adaptive Control*** 6621 Xuhui Bu, *Henan Polytechnic Univ.* Zhongsheng Hou, *Beijing Jiaotong Univ.* Jiaqi Liang, *Henan Polytechnic Univ.* Piaopiao Xu, *Henan Polytechnic Univ.*
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16:30-16:50	***MonD08-3***	***Data-Based Self-Learning Optimal Control for Continuous-Time Unknown Nonlinear Systems With Disturbance*** 6633 Qinglai Wei, *Inst. of Automation, Chinese Acad. of Sciences* Derong Liu, *Univ. of Science and Tech. Beijing* Ruizhuo Song, *Univ. of Science and Tech. Beijing* Pengfei Yan, *Inst. of Automation, Chinese Acad. of Sciences*

16:50-17:10	***MonD08-4***	***A Perturbed Gaussian Process Regression with Chunk Sparsification for Tracking Non-stationary Systems*** 6639 Dong Li, *Inst. of Automation Chinese Acad. of Sciences* Dongbin Zhao, *Inst. of Automation Chinese Acad. of Sciences* Zhongpu Xia, *Inst. of Automation Chinese Acad. of Sciences*
17:10-17:30	***MonD08-5***	***Active Disturbance Rejection Based Iterative Learning Control*** 6645 Xiangyang Li, *South China Univ. of Tech.* Senping Tian, *South China Univ. of Tech.* Wei Ai, *South China Univ. of Tech.*

Session	***MonD09: Fuzzy Systems (II) (Chinese)***
Date/Time	Monday, 30 May 2016 / 15:50-17:50
Venue	Room 09
Chair	***Daijun Wei***, *Hubei Univ. for Nationalities*
Co-Chair	***Ying Liu***, *Northeastern Univ.*

15:50-16:10	***MonD09-1***	***Route selection for dangerous goods based on D numbers*** 6651 Ningkui Wang, *Hubei Univ. for Nationalities* Xiaozhong Huang, *Hubei Univ. for Nationalities* Daijun Wei, *Hubei Univ. for Nationalities Key Laboratory of Biologic Resources Protection and Utilization of Hubei Province*
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16:30-16:50	***MonD09-3***	***Adaptive Fuzzy Terminal Sliding Mode Control for MIMO Nonlinear Systems*** 6663 Wuxi Shi, *Tianjin Polytechnic Univ.* Rui Luo, *Tianjin Polytechnic Univ.* Dongwei Wang, *Tianjin Polytechnic Univ.*
16:50-17:10	***MonD09-4***	***Observer-based Controller Synthesis for T-S Fuzzy Systems under Imperfect Premise Matching*** 6669 Jie Zhou, *Science and Tech. on Communication Security Laboratory* Tao Zhao, *Sichuan Univ.*
17:10-17:30	***MonD09-5***	***On Local Non-quadratic H8 Filtering of Continuous-time T-S Fuzzy Systems*** 6675 Juntao Pan, *Beifang Univ. of Nationalities* Fang Liu, *Beifang Univ. of Nationalities* Yong Niu, *Beifang Univ. of Nationalities* Bai Zhang, *Beifang Univ. of Nationalities*
17:30-17:50	***MonD09-6***	***A Comprehensive High Order Type 2 Fuzzy Time Series Forecasting Model*** 6681 Encheng Zhang, *Dalian Univ. of Tech.* Degang Wang, *Dalian Univ. of Tech.* Hongxing Li, *Dalian Univ. of Tech.*

Session	***MonD10: Neural Networks (V) (Chinese)***
Date/Time	Monday, 30 May 2016 / 15:50-17:50
Venue	Room 10
Chair	***Yi Yang***, ***Nantong Univ.***
Co-Chair	***Pei Cheng***, ***Anhui Univ.***

15:50-16:10 ***MonD10-1*** ***Identification and Self-tuning Control of Heat Pump System Based on Neural Network*** 6687
Yanjuan Lu, ***Nantong Univ.***
Yi Yang, ***Nantong Univ.***
Haiqin Gu, ***Nantong Univ.***
Ye Zhang, ***Nantong Univ.***

16:10-16:30 ***MonD10-2*** ***Almost Sure Exponential Stability of Stochastic Neural Networks*** 6692
Lei Shang, ***Anhui Univ.***
Dianqiang Li, ***Anhui Univ.***
Pei Cheng, ***Anhui Univ.***

16:30-16:50 ***MonD10-3*** ***Improved Delay-Dependent Stability criterion of Generalized Neural Networked with Interval Time-Varying Delays*** 6697
Shenping Xiao, ***Hunan Univ. of Tech.***
Honghai Lian, ***Hunan Univ. of Tech.***
Hongbing Zeng, ***Hunan Univ. of Tech.***
Gang Chen, ***Hunan Univ. of Tech.***
Linxing Xu, ***Hunan Univ. of Tech.***

16:50-17:10 ***MonD10-4*** ***Blind Sequence Detection of QAM System with Short Received Data Based on Echo State Networks*** 6704
Shuan Liu, ***Wenzhou Univ***
Hengheng Li, ***Wenzhou Univ***
Xiejie Jin, ***Wenzhou Univ***
Xiukai Ruan, ***Wenzhou Univ***
Yanhua Tan, ***Wenzhou Univ***
Guijun Zhu, ***Wenzhou Univ***
Qibo Cai, ***Wenzhou Univ***
Zhili Zhou, ***Sun Yat-sen Univ.***

17:10-17:30 ***MonD10-5*** ***Research on Soft-Sensor Based on Support Vector Regression for Particle Size of Grinding and Classification Process*** 6708
Yong Zhang, ***Univ. of Science and Tech. Liaoning***
Yunqi Liang, ***Univ. of Science and Tech. Liaoning***

Session	***MonD11: Motion Control (II)***
Date/Time	Monday, 30 May 2016 / 15:50-17:50
Venue	Room 11
Chair	***Fan Wu***, ***Harbin Inst. of Tech.***
Co-Chair	***Jinlong Zhang***, ***Chongqing Univ.***

15:50-16:10 ***MonD11-1*** ***Nano Satellite Attitude Estimation with Magnetometer and Photodiodes Measurements*** 6714
Fan Wu, ***Harbin Inst. of Tech.***
Xibin Cao, ***Harbin Inst. of Tech.***
Jiyao Zhang, ***Harbin Inst. of Tech.***

16:10-16:30	***MonD11-2***	***Sensorless Speed Control of Permanent Magnet Synchronous Motor System Based on Active Disturbance Rejection Control*** 6719 Qiang Chen, *Zhejiang Univ. of Tech.* Fang Dong, *Zhejiang Univ. of Tech.* Liang Tao, *Zhejiang Univ. of Tech.* Yurong Nan, *Zhejiang Univ. of Tech.*
13:30-16:50	***MonD11-3***	***Design and Experiment of Magnetorheological Rotary Damper for Solar Array Vibration Control*** 6724 Shaobo Lu, *Chongqing Univ.* Jinlong Zhang, *Chongqing Univ.* Junwei Shi, *Shanghai Key Laboratory of Spacecraft Mechanism Aerospace System Engineering Shanghai* Zongxiang Jin, *Shanghai Key Laboratory of Spacecraft Mechanism Aerospace System Engineering Shanghai* Yaobin He, *Chongqing Univ.*
16:50-17:10	***MonD11-4***	***Trajectory Tracking Control of Wheeled Mobile Robot Based on Fractional Order Backstepping*** 6730 Yuhan Zhao, *Nanjing Forestry Univ.* Ning Chen, *Nanjing Forestry Univ.* Yongpeng Tai, *Nanjing Forestry Univ.*
17:10-17:30	***MonD11-5***	***Research on Friction Compensation for PMSM Servo Systems*** 6735 Wei Gu, *Southeast Univ.* Yu Zhang, *Southeast Univ.* Shihua Li, *Southeast Univ.*
17:30-17:50	***MonD11-6***	***An On-Board Profile-Planning Entry Guidance*** 6741 Liang Zeng National Univ. of Defense Tech. Yongyuan Li China Academy of Launch Vehicle Tech. Hongbo Zhang National Univ. of Defense Tech. Wei Zheng National Univ. of Defense Tech.

Session	***MonD12: Robot Control (IV)***
Date/Time	Monday, 30 May 2016 / 15:50-17:50
Venue	Room 12
Chair	***Wei Chen***, *Southeast Univ.* *Jiangsu Univ. of Science and Tech.*
Co-Chair	***Fei Lu***, *Shandong Univ.*

15:50-16:10	***MonD12-1***	***A Novel Trajectory Planning Scheme for Spray Painting Robot with Bézier Curves*** 6746 Wei Chen, *Southeast Univ.* *Jiangsu Univ. of Science and Tech.* Yang Tang, *Jiangsu Univ.* Qiang Zhao, *Jiangsu Univ. of Science and Tech.*
16:10-16:30	***MonD12-2***	***Simulation and Modelling of 6-Degree of Freedom STEP SD 700 Industrial Robot Follow-up on a Given Trajectory*** 6751 Adil Shahzad, *School of Mechatronical Engineering, Beijing Inst. of Tech.* Yu Mu, *School of Mechatronical Engineering, Beijing Inst. of Tech.* Lijuan Zhang, *School of Mechatronical Engineering, Beijing Inst. of Tech.* Dengqi Cui, *School of Mechatronical Engineering, Beijing Inst. of Tech.* Yubai Liu, *School of Mechatronical Engineering, Beijing Inst. of Tech.* Han Dong, *School of Mechatronical Engineering, Beijing Inst. of Tech.* Xueshan Gao, *School of Mechatronical Engineering, Beijing Inst. of Tech.*

16:30-16:50 ***MonD12-3*** ***An Improved JSHOP2 Planner Oriented to Service Robot Multi-tasks Planning*** 6756
Fei Lu, ***Shandong Univ.***
Guohui Tian, ***Shandong Univ.***
Qing Li, ***Shandong Univ.***

16:50-17:10 ***MonD12-4*** ***Active Disturbance Rejection Control Based on Adaptive Differential Evolution for Two-Wheeled Self-Balancing Robot*** 6761
Libiao Jiang, ***South China Univ. of Tech.***
Huachuan Qiu, ***South China Univ. of Tech.***
Zhongwei Wu, ***South China Univ. of Tech.***
Jiashou He, ***South China Univ. of Tech.***

17:10-17:30 ***MonD12-5*** ***A Behavioral Multi-robot Formation Control Approach in Obstacle Environments*** 6767
Li Yang, ***Tianjin Key Laboratory of Information Sensing and Intelligent Control***
Tianjin Univ. of Tech. and Education
Jigong Li, ***Tianjin Key Laboratory of Information Sensing and Intelligent Control***
Tianjin Univ. of Tech. and Education

17:30-17:50 ***MonD12-6*** ***RBF Neural Network Adaptive Sliding Mode Control Based on Genetic Algorithm Optimization*** 6772
Jie Zhao, ***Heilongjiang Univ. of Scie. and Tech.***
Long Han, ***Heilongjiang Univ. of Scie. and Tech.***
Harbin Inst. of Tech.
Sijing Ren Heilongjiang Univ. of Scie. and Tech.

Session	***MonD13: Management Information Systems and Enterprises Informatization***
Date/Time	Monday, 30 May 2016 / 15:50-17:50
Venue	Room 13
Chair	***Qi Zhang***, ***Northeastern Univ.***
Co-Chair	***Jiajia Zheng***, ***Chongqing City Management Coll.***

15:50-16:10 ***MonD13-1*** ***NSGA-II for slab selecting and reheating furnace scheduling in hot rolling production*** 6776
Duan Xu, ***Shanghai Baosight Software Limited Company***
Qi Zhang, ***Northeastern Univ.***
Chao Lu, ***Northeastern Univ.***
Shixin Liu, ***Northeastern Univ.***

16:10-16:30 ***MonD13-2*** ***Technological Innovation, Fuzzy Grey Evaluation and Risk Assessment: A Perspective on Chinese Enterprises*** 6780
Degui Zhu, ***Harbin Univ. of Commerce***
Xinyu Wang, ***Harbin Univ. of Commerce***

16:30-16:50 ***MonD13-3*** ***Design of Energy Monitoring System based on IOT*** 6785
Hao Luan, ***Tianjin Univ. of Tech.***
Jianwei Leng, ***Tianjin Univ. of Tech.***

16:50-17:10	***MonD13-4***	***Handbill Release System Using B/S and C/S Hybrid Framework*** 6789 Shiyuan Hao, ***East China Univ. of Science and Tech.*** Yanhui Qiao, ***Suzhou Univ. of Science and Tech.*** Qingchun Hu, ***East China Univ. of Science and Tech.*** Xinyu Dai, ***East China Univ. of Science and Tech.*** Wanjun Hao, ***Suzhou Univ. of Science and Tech.*** Jinglin Liu, ***Suzhou Univ. of Science and Tech.***
17:10-17:30	***MonD13-5***	***Electronic Commerce, Network Accounting and Its Countermeasures: Practices and Perceptions from China*** 6794 Degui Zhu, ***Harbin Univ. of Commerce*** Guixiang Li, ***Harbin Univ. of Commerce***
17:30-17:50	***MonD13-6***	***An Object Oriented Dynamic Security Reference Model for Virtual Enterprises*** 6800 Jiajia Zheng, ***Chongqing City Management Coll.***

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Venue	Room 14
Chair	***Gang Chen***, ***Chongqing Univ.***
Co-Chair	***Jing Li***, ***Jiangnan Univ.***

15:50-16:10	***MonD14-1***	***A Distributed Solution of Economic Dispatch Problem in Islanded Microgrid Systems*** 6804 Gang Chen, ***Chongqing Univ.*** Zhiyong Li, ***Chongqing Univ.*** Ziye Liu, ***Chongqing Univ.***
16:10-16:30	***MonD14-2***	***A Control Strategy for Islanded DC Microgrid with Battery/Ultra-capacitor Hybrid Energy Storage System*** 6810 Jing Li, ***Jiangnan Univ.*** Yanxia Shen, ***Jiangnan Univ.*** Dinghui Wu, ***Jiangnan Univ.*** Zhipu Zhao, ***Jiangnan Univ.***
16:30-16:50	***MonD14-3***	***A Sort of CO2 Concentration Monitoring SystemBased on Energy Efficiency for Terminal*** 6814 Jingjie Chen, ***Civil Aviation Univ. of China*** Peng Du, ***Civil Aviation Univ. of China*** Daoxian Ren, ***Civil Aviation Univ. of China***
16:50-17:10	***MonD14-4***	***On Forecast Method of Thirteenth Five-year ESER Planning Goals for Transport Airlines*** 6818 Jingjie Chen, ***Civil Aviation Univ. of China*** Yujuan Zhu, ***Civil Aviation Univ. of China***
17:10-17:30	***MonD14-5***	***Study on Closed Loop Charging Strategy of Battery Based on Maas's Law*** 6823 Yusen Li, ***Univ. of Science and Tech. Liaoning*** Xiaodong Liu, ***Univ. of Science and Tech. Liaoning***

17:30-17:50 ***MonD14-6*** ***A High-Efficiency Synchronous Rectifier for Supercapacitor Voltage Equalizer in Urban Rail*** 6828
Honghai Lu, *Central South Univ.*
Zhiwu Huang, *Central South Univ.*
Liran Li, *Central South Univ.*
Xiaohui Gong, *Central South Univ.*
Sanfeng Liu, *Central South Univ.*
Cheng Luo, *Central South Univ.*

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Date/Time	Monday, 30 May 2016 / 15:50-17:50
Venue	Room 15

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Shikai Wang, *Harbin Engineering Univ.*
Hongzhang Jin, *Harbin Engineering Univ.*
Lingwei Meng, *Harbin Engineering Univ.*

MonDIS-02 ***Adaptive Sliding Mode Control of AUV to Optimize the Voyage*** 6838
Shikai Wang, *Harbin Engineering Univ.*
Hongzhang Jin, *Harbin Engineering Univ.*
Lingwei Meng, *Harbin Engineering Univ.*

MonDIS-03 ***VR-Based Construction Tele-robot System Displayed by HMD with Active Viewpoint Movement Mode*** 6844
Xingxing Tang, *Changchun Univ. of Tech.*
Pengfei Zhou, *Changchun Univ. of Tech.*
Hironao Yamada, *Gifu Univ.*

MonDIS-04 ***A Combined COG Adjustment Approach ofthe Crawl Gait for Quadruped Robot*** 6851
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Bin Li, *Qilu Univ. of Tech.*
Shandong Univ.
Zhen Hong, *Qilu Univ. of Tech.*
Yibin Li, *Shandong Univ.*

MonDIS-05 ***An Attitude Determination System for PhoneSat Using Smartphone Sensors*** 6857
Jingjing Zhao, *Univ. of Chinese Acad. of Sciences*
Junsuo Zhao, *Inst. of Software Chinese Acad. of Sciences*
Fengge Wu, *Inst. of Software Chinese Acad. of Sciences*

MonDIS-06 ***Research of a Construction Method of Space-based Cyber-Physical System*** 6862
Zhongcheng Yuan, *Inst. of Software, Chinese Acad. of Sciences*
Fengge Wu, *Inst. of Software, Chinese Acad. of Sciences*
Junsuo Zhao, *Inst. of Software, Chinese Acad. of Sciences*

MonDIS-07 ***Research on Optimal ELSF Real-Time Scheduling Algorithm for CPS*** 6867
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Yuan Yao, *Shenyang Inst. of Engineering*
Hongyan Mao, *Shenyang Inst. of Engineering*
Dapeng Yao, *Shenyang Inst. of Engineering*
Libo Xu, *Shenyang Inst. of Engineering*

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Jun Ai, *Univ. of Shanghai for Science and Tech.*
Yuming Shen, *Univ. of Shanghai for Science and Tech.*
Qingling Zhang, *Northeastern Univ.*
Haiqing Wu, *Univ. of Shanghai for Science and Tech.*

MonDIS-09 ***Design and Application of Computer Games Online System in Connect5*** 6879
Jun Tao, *Jianghan Univ.*
Rowan Univ.
Gui Wu, *Jianghan Univ.*

MonDIS-10 ***Design and Improvement of the Parallel Algorithm in the Computer Games System*** 6884
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Jun Tao, *Jianghan Univ.*
Rowan Univ.

MonDIS-11 ***Profit Analysis Theory and Application in Searching Algorithms Optimization at Transition Stage of Dot and Box Game*** 6888
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Hang Yin, *Shenyang Aerospace Univ.*
Xiaodong Bai, *Shenyang Aerospace Univ.*
Huiwen Hu, *Shenyang Aerospace Univ.*
Junkai Lu, *Shenyang Aerospace Univ.*

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Xian Mei, *Harbin Univ. of Science and Tech.*
Jun Liu, *Harbin Univ. of Science and Tech.*
Wen Xie, *Harbin Univ. of Science and Tech.*
Xiaobo Liu, *Harbin Univ. of Science and Tech.*

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Yajie Wang, *Shenyang Aerospace Univ.*
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Shengran Qiu, *Shenyang Aerospace Univ.*

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Xin Wen, *Beijing Univ. of Chemical Tech.*
Ping Yang, *National Inst. of Metrology*
Jinglin Zhou, *Beijing Univ. of Chemical Tech.*
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Henan Polytechnic Univ.
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MonDIS-18 ***Detection and Location for Slow Leakage of Oil Pipeline Based on Weighted Logical Inference and Data Fitting*** 6918
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Dongdong Li, ***Beijing Univ. of Chemical Tech.***

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Huanqing Wang, ***Bohai Univ.***
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MonDIS-32 ***The EMD Based on Adaptive Stochastic Resonance for Weak Signal Detection*** 7000
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Zhao Hai, ***Northeastern Univ.***
Zhu Hongbo, ***Northeastern Univ.***
Pan Yilin, ***Harbin Institute of Tech.***