

The 22nd International Conference on Automation and Computing (Parallel Session index)

10:40 - 12:20 08/09/2016

Parallel Sessions (A-1, A-2, A-3, A-4, A-5, A-6)

Time	A-1 Control Applications 1 Venue: EBS 2.35 Chair: Qingde Li & Hualiang Wei	A-2 Information System 1 Venue: EBS 2.40 Chair: Sijing Zhang & Xiaohui Liu	A-3 Manufacturing System Venue: EBS 2.46 Chair: Kai Cheng & Quanmin Zhu	A-4 Computer Vision and Computer Graphics 1 Venue: EBS 2.68 Chair: Dingli Yu & Jihong Wang	A-5 System and condition monitoring 1 Venue: EBS 1.1 Chair: Qian Wang & Zidong Wang	A-6 Network Application and Security 1 Venue: EBS 2.1 Chair: Fengshou Gu & Xing Luo
10:40 - 11:00	A-1.1 #19 <i>Fan Wang, Jinling Liang, Xiaohui Liu</i> Observer-based Delay Compensation for Networked Control Systems – analysis and synthesis	A-2.1 #21 (CA) <i>Qingzhong Jia, Xingdou Wang</i> Research on Communication Technology of Complex System Based on FPGA Dual-Port RAMs	A-3.1 #4 <i>Daogang Peng, Hanmei Zhao, Li Huang, Liqun Gu</i> Optimal Load Distribution in Power Plants Based on Dynamic Inertia Weight Particle Swarm Algorithm	A-4.1 #135 <i>Qiang Liu, Ruihao Li, Huosheng Hu, Dongbing Gu</i> Using Semantic Maps for Room Recognition to Aid Visually Impaired People	A-5.1 #29 <i>Yaowang Li, Shihong Miao, Xing Luo, Jihong Wang</i> Optimization Scheduling Model Based on Source-Load-Energy Storage Coordination in Power Systems	A-6.1 #3 (N) <i>Bo Wang, Yuping Tian</i> Consensus with Relative-State-Dependent Noises in Time-Varying Networks
11:00 - 11:20	A-1.2 #68 <i>Hang Geng, Yan Liang, Chuanbo Wen, Yonggang Chen</i> Joint Estimation of Fast-updating State and Intermittent-updating State	A-2.2 #80 (CA) <i>Faisal Rehman, Sana Akram, Munam Shah</i> The Framework for Efficient Passphrase-Based Multifactor Authentication in Cloud Computing	A-3.2 #31 <i>Hua Ji, Xiao Chen, Ke Zhang, Yangao Wang</i> Construct Drawing Man-Hour Forecasting Based on GA-BP in Chemical Equipment Design Process	A-4.2 #20 <i>Vassiliki Somaraki, Zhijie Xu</i> Epicurus: a platform for the visualisation of forensic documents based on a linguistic approach	A-5.2 #54 <i>Guoxing Li, Fengshou Gu, Tie Wang, Nasha Wei, Yuandong Xu, Andrew Ball</i> A Validated Finite Element Model for Predicting Dynamic Responses of Cylinder Liners in an IC Engine	A-6.2 #79 (N) <i>Joy Eze C, Sijing Zhang, Enjie Liu, Theresa Efor E, Elias Eze C</i> Cognitive Radio Aided Vehicular Ad-Hoc Networks with Efficient Spectrum Allocation and QoS Guarantee
11:20 - 11:40	A-1.3 #93 <i>Jie Bao, Hong Yue, William Leithead, Jiqiang Wang</i> LIDAR-Assisted Wind Turbine Gain Scheduling Control for Load Reduction	A-2.3 #85 (CA) <i>Muhammad Ilyas, Qaisar Javaid, Munam Shah</i> Use of Symmetric Multiprocessor Architecture to Achieve High Performance Computing	A-3.3 #32 <i>Ahmed Mohammed, Qian Wang</i> A fuzzy Multi-Objective Approach for a Meat Supply Chain Design	A-4.3 #64 <i>Xiaowen Yang, Qingde Li, Xie Han, Zhichun Zhang</i> Person-Specific Hand Reconstruction for Natural HCI	A-5.3 #13 <i>Yongping Pan, Xiang Li, Haoyong Yu</i> Least-Squares Learning Control with Guaranteed Parameter Convergence	A-6.3 #18 (N) <i>Chukwu Jeremiah, Anselm Iteshi</i> Wireless Sensor Networks: Current State and Security Issues
11:40 - 12:00	A-1.4 #34 <i>Lifeng Ma, Zidong Wang, Yuan Yuan</i> Consensus Control for Nonlinear Multi-Agent Systems Subject to Deception Attacks	A-2.4 #128 (CA) <i>Shang Zheng, Hongji Yang, Xin Zuo, Hualong Yu, Jifeng Shen</i> Understanding Software Reengineering Requirements for Cloud-Oriented Service Architecture	A-3.4 #39 <i>Johannes Teiwes, Timo Bänziger, Andreas Kunz, Konrad Wegener</i> Identifying the Potential of Human-Robot Collaboration in Automotive Assembly Lines Using a Standardised Work Description	A-4.4 #8 <i>Xinxin Yao, Hualiang Wei</i> Off- Line Signature Verification Based on A New Symbolic Representation and Dynamic Time Warping	A-5.4 #35 <i>Mark Bowkett, Kary Thanapalan, Jonathan Williams</i> Review and Analysis of Failure Detection Methods of Composites Materials Systems	A-6.4 #42 (N) <i>Qinyuan Liu, Zidong Wang, Weibo Liu, Wenshuo Li</i> Event-Triggered Resilient Filtering with Missing Measurements
12:00 - 12:20	A-1.5 #36 <i>Benyamin Kusumoputro, Herwin Supriyono, Muhammad Heryanto, Bhakti Suprpto</i> Development of an Attitude Control System of a Heavy-Lift Hexacopter using Elman Recurrent Neural Networks	A-2.5 #7 (MS) <i>Yuanlin Gu, Hualiang Wei</i> Analysis of the Relationship between Lifestyle and Life Satisfaction Using Transparent and Nonlinear Parametric Models	A-3.5 #65 <i>Azat Yusupov, Yang Liu</i> Development of a Self-Propelled Capsule Robot for Pipeline Inspection	A-4.5 #9 <i>Xinxin Yao, Hualiang Wei</i> Walking Gestures Recognition Based on a Novel Symbolic Representation	A-5.5 #50 <i>Mark Lane, Abdulkarim Shaeboub, Fengshou Gu, Andrew Ball</i> Investigation of Reductions in Motor Efficiency Caused by Stator Faults When Operated from an Inverter Drive	A-6.5 #47 (N) <i>Thanmayee Karimireddy, Sijing Zhang</i> An Adaptive Error Control Approach for Reliable Industrial Automation Networks

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Lunch

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Photo Session

13:20 - 15:20 08/09/2016

Parallel Sessions (P1-1, P1-2, P1-3, P1-4, P1-5, P1-6)

Time	P1-1 Control Applications 2 Venue: EBS 2.35 Chair: Yang Liu & Hongnian Yu	P1-2 Information System 2 Venue: EBS 2.40 Chair: Erfu Yang & Wei Huang	P1-3 Information System 3 Venue: EBS 2.46 Chair: Hong Yue & Dongling Xu	P1-4 Computer Vision and Computer Graphics 2 Venue: EBS 2.68 Chair: Jing Wang & Yi Chen	P1-5 System and condition monitoring 2 Venue: EBS 1.1 Chair: Shuang Cang & Yi Cao	P1-6 Network Application and Security 2 Venue: EBS 2.1 Chair: Hui Yu & Jianjun Gui
13:20 - 13:40	P1-1.1 #38 <i>Yulei Ge, Shurong Li, Renlin Zang, Qiang Zhang</i> Optimization for ASP Flooding Based on Adaptive Rationalized Haar Functions Approximation	P1-2.1 #28 (MS) <i>Kumaran Rajarathinam, Barry Gomm, Dingli Yu, Ahmed Abdelhadi</i> Model Parameters Identification for Excess Oxygen by Standard Genetic Algorithm	P1-3.1 #25 (ML) <i>Xiaofang Liu, Ruikang Li, Kai Cheng, Dansong Cheng</i> Investigation on the Construction of the Relevance Vector Machine Based on Cross Entropy Minimization	P1-4.1 #30 <i>Zhenwei Gao, Yongqiang Bai</i> Single Image Haze Removal Algorithm Using Pixel-Based Airlight Constraints	P1-5.1 #52 <i>Yaowang Li, Shihong Miao, Xing Luo, Jihong Wang</i> Optimization Model for the Power System Scheduling with Wind Generation and Compressed Air Energy Storage Combination	P1-6.1 #74 (NS) <i>Syeda Muzammal, Munam Shah</i> ScreenStealer: Addressing Screenshot Attacks on Android Devices
13:40 - 14:00	P1-1.2 #56 <i>Jia Song, Jiaming Lin, Erfu Yang</i> A Novel Fault-Tolerant Control Strategy for Near Space Hypersonic Vehicles Via Least Squares Support Vector Machine and Backstepping Method	P1-2.2 #40 (MS) <i>Xiaohu Xia, Yun Wei</i> Lithium-Ion Batteries State-of-Charge Estimation Based on Interactive Multiple-Model Extended Kalman Filter	P1-3.2 #26 (ML) <i>Leiping Xi, Quanmin Zhu, Dizhou Zhang</i> Sliding Mode Control Design based on Fuzzy Reaching Law for Yaw Angle of a Tail-Sitter UAV	P1-4.2 #49 <i>Rizwan Qayyum, Khurram Kamal, Tayyab Zafar, Senthan Mathavan</i> Wood Defects Classification Using GLCM Based Features and PSO Trained Neural Network	P1-5.2 #53 <i>Abdulkarim Shaeboub, Mark Lane, Usama Haba, Fengshou Gu, Andrew Ball</i> Detection and Diagnosis of Compound Faults in Induction Motors Using Electric Signals from Variable Speed Drives	P1-6.2 #77 (N) <i>Elias Eze, Sijing Zhang, Enjie Liu, Joy Eze, Emmanuel Nweso</i> RECMAC: Reliable and Efficient Cooperative Cross-Layer MAC Scheme for Vehicular Communication Based on Random Network Coding Technique
14:00 - 14:20	P1-1.3 #57 <i>Dake Gu, Dejiang Zhao, Yindong Liu, Yanming Fu</i> Complete Parametric Approach for Eigenstructure Assignment in Second-Order Systems Using Displacement-Plus-Acceleration Feedback	P1-2.3 #45 (MS) <i>Huijuan Dong, Shuai Liu, Yingzi Guan, Peng Zhang</i> Simulation of Particle Transportation Trajectory in Acoustic Standing Wave Field	P1-3.3 #114 (ML) <i>Lin Zou, Qinyun Liu, Chi Zhang, Hongji Yang</i> An Approach to Applying Creative Computing in Tourism by Constructing Big Data Based Knowledge System Framework	P1-4.3 #60 <i>Hamza Alzarok, Simon Fletcher, Andrew Longstaff</i> A New Strategy for Improving Vision Based Tracking Accuracy Based on Utilization of Camera Calibration Information	P1-5.3 #92 <i>Adel Jaber, et al.</i> Comparative Study of Partial Discharge Emulators for the Calibration of Free-Space Radiometric Measurements	P1-6.3 #78 (N) <i>Waleed Rafique, Munam Shah</i> Performance Evaluation of IoT Network Infrastructure
14:20 - 14:40	P1-1.4 #70 <i>Yuzhen Sun, Jiang Gao, Hao Zhang, Daogang Peng, Qin Li</i> The Application of BPNN Based on Improved PSO in Main Steam Temperature Control of Supercritical Unit	P1-2.4 #83 (MS) <i>Guoqin Gao, Taiping Chen, Mengru Liu, Xuemei Niu</i> Dynamic Modeling of a Novel Hybrid Conveying Mechanism for Electro-Coating of Automobile Bodies Based on Screw Theory	P1-3.4 #116 (ML) <i>Wuqiao Luo, Yun Li</i> Benchmarking Heuristic Search and Optimisation Algorithms in Matlab	P1-4.4 #66 <i>Dengkai Chen, Danping Ma, Jianjie Chu, Jintao He</i> The Study of an Image-Based Method for Product Color Design	P1-5.4 #100 <i>Hui Yu, Hong Yue, Hening Yu, Jinglin Zhou</i> Integrated Time Sampling Design and Measurement Set Selection for Biochemical Systems	P1-6.4 #95 (N) <i>Ashraf Khalil, Salma Elkawafi, Anass Elgaiyar, Jihong Wang</i> Delay-Dependent Stability of LFC in Microgrid with Varying Time Delays
14:40 - 15:00	P1-1.5 #106 <i>Liyi Yin, Chifu Yang, Changhong Gao, Dacheng Cong, Junwei Han</i> Dynamic Decoupling Control Strategy for 6-DOF Motion Simulator Based on Singular Value Decomposition	P1-2.5 #98 (MS) <i>Xiaokai Nie, Jihong Wang, Oleh Kiselychnyk, Jing Chen</i> Modelling of One-Dimensional Noisy Dynamical Systems with a Frobenius-Perron Solution	P1-3.5 #121 (ML) <i>Mehdi Jafari, Amir Shahab Shahabi, Jing Wang, Yongrui Qin, Xiaohui Tao, Mehdi Gheisari</i> Automatic Text Summarization Using Fuzzy Inference	P1-4.5 #75 <i>Junaid Khan, Munam Shah</i> Car Number Plate Recognition (CNPR) System Using Multiple Template Matching	P1-5.5 #113 <i>Hang Zhang, Ziqiang Lang, Yunpeng Zhu</i> A Comparative Study on the Evaluation of Nonlinear Output Frequency Response Functions (NOFRFs) of Nonlinear Systems	P1-6.5 #97 (N) <i>Ashraf Khalil, Salma Elkawafi, Anass Elgaiyar, Jihong Wang</i> Delay-Dependent Stability of DC Microgrid with Time-Varying Delay
15:00 - 15:20		P1-2.6 #99 (MS) <i>Jianfeng Huang, Yuanxin Luo, Don McGlinchey, Yi Chen</i> A Computational Intelligence Based Dislocation Recognition During Molecular Dynamics Simulation	P1-3.6 #122 (ML) <i>Ruihao Li, Qiang Liu, Jianjun Gui, Dongbing Gu, Huasheng Hu</i> Night-Time Indoor Relocalization Using Depth Image with Convolutional Neural Networks	P1-4.6 #120 <i>Guanfeng Wang, Shuxia Wang</i> Segmentation of Online Sketching Using Geometric Feature	P1-5.6 #131 <i>Naima Hamad, Khaldoon Brethee, Fengshou Gu, Andrew Ball</i> An Investigation of Electrical Motor Parameters in a Sensorless Variable Speed Drive for Machine Fault Diagnosis	P1-6.6 #102 (N) <i>Zhong Chu, Wei Sun, Jianping Wang</i> Research on MAC Layer Communication Performance Model of Wireless Sensor Networks for Intelligent Transportation

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Coffee Break

15:40 - 17:40 08/09/2016

Parallel Sessions (P2-1, P2-2, P2-3, P2-4, P2-5, P2-6)

Time	P2-1 Control Applications 3 Venue: EBS 2.35 Chair: Guoxing Li & Yun Li	P2-2 Information System 4 Venue: EBS 2.40 Chair: Ziqiang Lang & Hongji Yang	P2-3 Information System 5 Venue: EBS 2.46 Chair: Chenguang Yang & Wei Liu	P2-4 Computer Vision and Computer Graphics 3 Venue: EBS 2.68 Chair: Xichun Luo & Qiang Liu	A-5 Network Application and Security 3 Venue: EBS 1.1 Chair: Ruihao Li & Huosheng Hu	A-6 Network Application and Security 4 Venue: EBS 2.1 Chair: Shuanghua Yang & Jing Chen
15:40 - 16:00	P2-1.1 #108 <i>Henry Tandoh, Yi Cao, Carlos Avila</i> Stability of Severe Slug Flow in U-Shape Riser	P2-2.1 #133 (ML) <i>Sicong Ma, Siyan Li, Hongji Yang</i> Utilising Creative Computing and Data Mining Technologies to Analyse Query in a Meta-Search System	P2-3.1 #15 (OP) <i>Rao Muzamal Liaqat, Farooque Azam, Mudassar Adeel Ahmed, Bilal Mehboob</i> A Majority Voting Goal Based Technique for Requirement Prioritization	P2-4.1 #69 <i>Yu Hao, Zhijie Xu, Jing Wang, Ying Liu, Jiulun Fan</i> An Approach to Detect Crowd Panic Behavior using Flow-based Feature	P2-5.1 #104 (N) <i>Haoyuan Sun, Jian Sun, Jie Chen, Jun Jin</i> Observer-Based Output Feedback Control of Sampled-Data System Under Stochastic Sampling	P2-6.1 #6 (NS) <i>Abdul Waheed, Munam Shah, Abid Khan</i> Secure Login Protocols: An Analysis on Modern Attacks and Solutions
16:00 - 16:20	P2-1.2 #109 <i>Dizhou Zhang, Zili Chen, Leiping Xi</i> Adaptive Dual Fuzzy PID Control Method for Longitudinal Attitude Control of Tail-Sitter UAV	P2-2.2 #112 (ML) <i>Alan Flores Saldivar, Cindy Goh, Yun Li, Yi Chen, Hongnian Yu</i> Identifying Smart Design Attributes for Industry 4.0 Customization Using a Clustering Genetic Algorithm	P2-3.2 #84 (OP) <i>Xin Wang, Wei Wang, Yerong Zhang, Kexin Sun, Lvping Li</i> On Orbit Satellite Fuel Consumption Optimization with Analytic Hierarchy Process Method	P2-4.2 #37 <i>Lei Chen, Jing Yu, Allah Ditta, Chuangbai Xiao, Xueliang Li, Zhenli Wang</i> A New Seismic Data Visualization Method	P2-5.2 #110 (N) <i>Ahsan Raza, Wei Liu</i> Critical Analysis of the Eigenfilter Method for the Design of FIR Filters and Wideband Beamformers	P2-6.2 #23 (NS) <i>Ikram Ullah, Munam Shah</i> A Novel Model for Preserving Location Privacy in Internet of Things
16:20 - 16:40	P2-1.3 #115 <i>Runxian Yang, Chenguang Yang, Mou Chen, Jing Na</i> Robust Control for Robot Manipulators with Time-varying Uncertainty Based on Bounded Observer in Discrete Time	P2-2.3 #134 (ML) <i>Pree Thiengburanathum, Shuang Cang, Hongnian Yu</i> Overview of Personalized Travel Recommendation Systems	P2-3.3 #96 (OP) <i>Huaying Zhu, Jianbo Yang, Dongling Xu, Cong Xu</i> Application of Evidential Reasoning Rules to Identification of Asthma Control Steps in Children	P2-4.3 #94 <i>Yan Wang, Shuang Cang, Hongnian Yu</i> Realization of Wearable Sensors-Based Human Activity Recognition with an Augmented Feature Group	P2-5.3 #123 (N) <i>Ibukunoluwa Akinyemi, Shuanghua Yang</i> Feedback Control Algorithm for Optimal Throughput in IEEE 802.11e EDCA Networks	P2-6.3 #41 (NS) <i>Muhammad Rehman Zafar, Munam Shah</i> Fingerprint Authentication and Security Risks in Smart Devices
16:40 - 17:00	P2-1.4 #118 <i>Chenguang Yang, Junshen Chen, Fei Chen</i> Neural Learning enhanced Teleoperation Control of Baxter Robot using IMU based Motion Capture	P2-2.4 #124(HCI) <i>Vassiliki Somaraki, Zhijie Xu</i> Knowledge Representation of Large Medical Data Using XML	P2-3.4 #82 (NS) <i>Daifur Girei, Munam Shah, Muhammad Bilal Shahid</i> An Enhanced Botnet Detection Technique for Mobile Devices Using Log Analysis	P2-4.4 #90 <i>Daoyi Wu</i> Research on the Micro-Interactive Interface Design of Intelligent Washing Machines in IOT Environment	P2-5.4 #126 (N) <i>Muhammad Salman, Muhamamd Asif Aziz, Munam Shah</i> Simulation Based Evaluation of DDH-MAC Protocol for Cognitive Radio Networks	P2-6.4 #73 (NS) <i>Fahad Mira, Wei Huang, Antony Brown</i> Novel Malware Detection Methods by Using LCS and LCSS
17:00 - 17:20	P2-1.5 #71 <i>Pengcheng Liu, Hongnian Yu, Shuang Cang, Luige Vladareanu</i> Robot-Assisted Smart Firefighting and Interdisciplinary Perspectives	P2-2.5 #127(HCI) <i>Kim Perren, Lili Yang, Jinjin He, Shuanghua Yang, Yixing Shan</i> Incorporating Persuasion into a Decision Support System: The Case of the Water User Classification Function	P2-3.5 #132(NS) <i>Khattab Ali, Klaus McDonald-Maier</i> Hybrid Intrusion Detection in Connected Self-Driving Vehicles	P2-4.5 #125 <i>Is-Haka Mkwawa, Tawfeeg Noor, Niema Osman</i> The Impact of Gender on the Quality of Experience for Video Services	P2-5.5 #103 (N) <i>Muhammad Sajjad Akba, Hongnian Yu, Shuang Cang</i> Implanted Medical Devices as Future of Wireless Healthcare Monitoring: Investigation and Performance Evaluation Using Novel Numerical Modelling	P2-6.5 #76 (NS) <i>Muhammad Hassam Khan, Munam Shah</i> Survey on Security Threats of Smartphones in Internet of Things
17:20 - 17:40		P2-2.6 #130 (HCI) <i>Benhur Bastaki, Russell Campion, Tomasz Bosakowski</i> Intelligent Assisted Living Framework for Monitoring Elders		P2-4.6 #129 <i>Qian Xu, Zhengxu Zhao, Weihua Zhao</i> From Orientation Movement to Space Navigation: Toward a Novel Explorative Model	P2-5.6 #117 (NS) <i>Maxim Wilson, Behnam Bazli</i> Forensic Analysis of I2P Activities	

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Closing and prize giving ceremony

19:00 - 21:00 08/09/2016

Conference Banquet