# 2016 3rd International Conference on

# Information Science and Control Engineering

# ICISCE 2016

# Conference Program

**Vienna International Hotels (Beijing Guanganmen)**
★ ★ ★ ★

**July 8-10, 2016, Beijing, China**

**Technically Co-Sponsored by**

IEEE Computer Society, USA

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Beijing University of Civil Engineering and Architecture, China

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# Message from the ICISCE 2016 General Chairs

ICISCE 2016 is the 3rd International Conference on Information Science and Control Engineering, will be held from July 8-10, 2016, in Beijing, China. The aim of the ICISCE 2016 is to provide an international conference for scientific research on Information Science and Control Engineering. ICISCE 2016 is Technically Co-Sponsored by IEEE Computer Society, USA, and sponsored by Beijing University of Civil Engineering and Architecture, China, The University of Texas at San Antonio (UTSA), USA, and Co-sponsored by University of Hull, UK, Xiamen University, China, China Jiliang University, China, Hunan University of Humanities, Science and Technology, China, Iwate Prefectural University, Japan. ICISCE 2016 is the next event in a series of highly successful the International conference on Information Science and Control Engineering, ICISCE 2012 (December 7-9, 2012, Shenzhen, China), ICISCE 2015 (April 24-26, 2015, Shanghai, China).

We would like to express our sincere thanks to the Program Chairs: Shaozi Li (Xiamen University, China), Ying Dai (Iwate Prefectural University, Japan), Daniel Neagu (University of Bradford, UK), Ming Dong (Wayne State University, USA), all program committee members and all the additional reviewers for their valuable efforts in the review process, which helped us to guarantee the highest quality of the selected papers for the conference.

We cordially thank all the authors for their valuable contributions and the other participants of this conference. The conference would not have been possible without their support. Thanks are also due to the many experts who contributed to making the event a success.

May 30, 2016

Prof. Zhixin Chen, Beijing University of Civil Engineering and Architecture, China
Prof. Qi Tian, The University of Texas at San Antonio (UTSA), USA
ICISCE 2016 General Conference Chairs

# Message from the ICISCE 2016 Program Chairs

Welcome to the 3rd International Conference on Information Science and Control Engineering (ICISCE 2016), will be held from July 8-10, 2016, in Beijing, China. ICISCE 2016 will the most comprehensive conference focused on the Information Science and Control Engineering. ICISCE 2016 will provide an opportunity for academic and industry professionals to discuss recent progress in the area of Information Science and Control Engineering. In addition, the conference will publish high quality papers which are closely related to the various theories and practical applications on Information Science and Control Engineering. Furthermore, we expect that the conference and its publications will be a trigger for further related research and technology improvements in these important subjects.

For ICISCE 2016, we received many paper submissions, after a rigorous peer review process, only very outstanding paper can be accepted for the ICISCE 2016 proceedings, published by the IEEE Computer Society. All submitted papers have undergone blind reviews by at least two reviewers from the technical program committee, which consists of leading researchers around the globe. Without their hard work, achieving such a high-quality proceeding would not have been possible. We take this opportunity to thank them for their great support and cooperation. We also would like to thank all of you for your participation in our conference, and also thank all the authors, reviewers, and organizing committee members.

Thank you and enjoy the conference!

May 30, 2016

Shaozi Li, Xiamen University, China
Ying Dai, Iwate Pref. University, Japan
Daniel Neagu, University of Bradford, UK
Ming Dong, Wayne State University, USA
ICISCE 2016 Technical Program Committee Chairs

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Zhou Su, Waseda University, Japan

Zonghua Zhang, Institut TELECOM/TELECOM Lille1, Fance

# Cyber-Enabled and Data-Driven Smart Health Control

Qun Jin

Professor and Department Chair of Human Informatics and Cognitive Sciences,

Waseda University, Japan

## Abstract

In recent years, cyber technologies, such as ubiquitous cloud computing, mobile Internet, smartphones, wireless sensors, Internet of Things (IoT), big data, enable healthcare related services to enhance quality of life (QoL) and promote well-being for all of the people. In this talk, after briefly introducing the concept of smart health in terms of control systems and the cyber-enabled framework for data-driven smart health control, our vision and work on big data driven personal analytics and individual modeling for smart health will be described and explained. Furthermore, quality control and sustainable use of health big data as well as opportunities and issues of cyber-enabled smart health will be addressed and discussed.

## Short Bio

Qun Jin is currently a tenured full professor and the chair of the Department of Human Informatics and Cognitive Sciences, Faculty of Human Sciences, Waseda University, Japan. He has been engaged extensively in research works in the fields of computer science, information systems, and social and human informatics. He seeks to exploit the rich interdependence between theory and practice in his work with interdisciplinary and integrated approaches. Dr. Jin has published more than 200 refereed papers in the academic journals, such as ACM Transactions on Intelligent Systems and Technology, IEEE Transactions on Learning Technologies, IEEE Systems Journal, and Information Sciences (Elsevier), and international conference proceedings in the related research areas. He has served as a general chair, program chair and TPC member for numerous international conferences, and editor-in-chief, associate editor, editorial board member and guest editor for a number of scientific journals. His recent research interests cover human-centric ubiquitous computing, behavior and cognitive informatics, data analytics and big data security, personal analytics and individual modeling, cyber-enabled applications in e-learning and e-health, and computing for well-being. He is a member of IEEE, IEEE CS, and ACM, USA, IEICE, IPSJ, and JSAI, Japan, and CCF, China.

## Person Re-identification: Benchmarks and Our Solutions

Qi Tian

The University of Texas at San Antonio (UTSA), USA

### Abstract

Person re-identification (re-id) is a promising way towards automatic video surveillance. As research hotspot in recent years, there has been an urgent demand for building a solid benchmarking framework, including comprehensive datasets and effective baselines.

To benchmark a large scale person re-id dataset, we propose a new high quality frame-based dataset for person re-identification titled "Market-1501", which contains over 32,000 annotated bounding boxes, plus a distractor set of over 500K images. Different from traditional datasets which use hand-drawn bounding boxes that are unavailable under realistic settings, we produce the dataset with Deformable Part Model (DPM) as pedestrian detector. Moreover, this dataset is collected in an open system, where each identity has multiple images under each camera. We propose an unsupervised Bag-of-Words representation and treat the person re-identification as a special task of image search, which is demonstrated very efficient and effective.

To further push the person re-identification to practical applications, we propose a new video based dataset titled "MARS", which is the largest video re-id dataset to date. Containing 1,261 identities and over 20,000 tracklets, it provides rich visual information compared to image-based datasets. The tracklets are automatically generated by the DPM as pedestrian detector and the GMMCP tracker. Extensive evaluation of the state-of-the-art methods including the space-time descriptors are presented. We further show that CNN in classification mode can be trained from scratch using the consecutive bounding boxes of each identity.

Finally, we present "Person Re-identification in the Wild (PRW)" dataset for evaluating end-to-end re-id methods from raw video frames to the identification results. We address the performance of various combinations of detectors and recognizers, mechanisms for pedestrian detection to help improve overall re-identification accuracy and assessing the effectiveness of different detectors for re-identification. A discriminatively trained ID-discriminative Embedding (IDE) in the person subspace using convolutional neural network (CNN) features and a Confidence Weighted Similarity (CWS) metric that incorporates detection scores into similarity measurement are introduced to aid the identification.

### Short Bio



**Qi Tian** is currently a Full Professor in the Department of Computer Science, the University of Texas at San Antonio (UTSA). He was a tenured Associate Professor from 2008-2012 and a tenure-track Assistant Professor from 2002-2008. During 2008-2009, he took one-year Faculty Leave at Microsoft Research Asia (MSRA) as Lead Researcher in the Media Computing Group.

Dr. Tian received his Ph.D. in ECE from University of Illinois at Urbana-Champaign (UIUC) in 2002 and received his B.E. in Electronic Engineering from Tsinghua University in 1992 and M.S. in ECE from Drexel University in 1996, respectively. Dr. Tian's research interests include multimedia information retrieval, computer vision, pattern recognition and bioinformatics and published over 320 refereed journal and conference papers. He was the co-author of a **Best Paper** in ACM ICMR 2015, a **Best Paper** in PCM 2013, a **Best Paper** in MMM 2013, a **Best Paper** in ACM ICIMCS 2012, a **Top 10% Paper Award** in MMSP 2011, a **Best Student Paper** in ICASSP 2006, and co-author of a **Best Student Paper Candidate** in ICME 2015, and a **Best Paper Candidate** in PCM 2007.

# *Searchable Symmetric Encryption: Potential Attacks, Practical Constructions and Extensions*

Jinjun Chen

University of Technology Sydney (UTS), Australia

**Abstract:**

Data outsourcing has become one of the most successful applications of cloud computing, as it significantly reduces data owners' costs on data storage and management. To prevent privacy disclosure, sensitive data has to be encrypted before outsourcing. Traditional encryption tools such as AES, however, destroy the data searchability because keyword searches cannot be performed over encrypted data. Though the above issue has been addressed by an advanced cryptographic primitive, called searchable symmetric encryption (SSE), we observe that existing SSE schemes still suffer security, efficiency or functionality flaws. In this research, we further study SSE on three aspects. Firstly, we address the search pattern leakage issue. We demonstrate that potential attacks are exist as long as an adversary with some background knowledge learns users' search pattern. We then develop a general countermeasure to transform an existing SSE scheme to a new scheme where the search pattern is hidden. Secondly, motivated by the practical phenomenon in data outsourcing scenarios that user data is distributed over multiple data sources, we propose efficient SSE constructions which allow each data source to build a local index individually and enable the storage provider to merge all local indexes into a global one. Thirdly, we extend SSE into graph encryption with support for specific graph queries. E.g., we investigate how to perform shortest distance queries on an encrypted graph.

**Short Bio:**

Dr Jinjun Chen is a Professor from Faculty of Engineering and IT, University of Technology Sydney (UTS), Australia. He is the Director of Lab for Data Systems and Visual Analytics in the Global Big Data Technologies Centre at UTS. He holds a PhD in Information Technology from Swinburne University of Technology, Australia. His research interests include scalability, big data, data science, data intensive systems, cloud computing, workflow management, privacy and security, and related various research topics. His research results have been published in more than 130 papers in international journals and conferences, including ACM Transactions on Software Engineering and Methodology (TOSEM), IEEE Transactions on Software Engineering (TSE), IEEE Transactions on Parallel and Distributed Systems (TPDS), IEEE Transactions on Cloud Computing, IEEE Transactions on Computers (TC), IEEE Transactions on Service Computing, and IEEE TKDE.

He received UTS Vice-Chancellor's Awards for Research Excellence Highly Commended (2014), UTS Vice-Chancellor's Awards for Research Excellence Finalist (2013), Swinburne Vice-Chancellor's Research Award (ECR) (2008), IEEE Computer Society Outstanding Leadership Award (2008-2009) and (2010-2011), IEEE Computer Society Service Award (2007), Swinburne Faculty of ICT Research Thesis Excellence Award (2007). He is an Associate Editor for ACM Computing Surveys, IEEE Transactions on Big Data, IEEE Transactions on Knowledge and Data Engineering, IEEE Transactions on Cloud Computing, as well as other journals such as Journal of Computer and System Sciences, JNCA. He is the Chair of IEEE Computer Society's Technical Committee on Scalable Computing (TCSC), Vice Chair of Steering Committee of Australasian Symposium on Parallel and Distributed Computing, Founder and Coordinator of IEEE TCSC Technical Area on Big Data and MapReduce, Founder and Steering Committee Co-Chair of IEEE International Conference on Big Data and Cloud Computing, IEEE International Conference on Big Data Science and Engineering, and IEEE International Conference on Data Science and Systems.

# Conference Schedule

| Date | Time | Beethoven Hall (Third Floor) 贝多芬厅（三楼） | Mozart Hall (Second Floor) 莫扎特厅（二楼） | Vienna Hotel (First Floor) 维也纳酒店大厅 |
|---|---|---|---|---|
| 2016-07-08 | 09:00-17:40 | | | Registration |
| 2016-07-09 | 08:40-17:40 | | | Registration |
| | 09:00-09:25 | Opening Remarks | | |
| | 09:25-10:10 | Keynote by Qun Jin | | |
| | 10:10-10:30 | Coffee break | | |
| | 10:30-11:15 | Keynote by Qi Tian | | |
| | 11:15-12:00 | Keynote by Jinjun Chen | | |
| | 12:00-13:20 | Lunch | | |
| | 13:20-15:20 | | Oral Session 1 | |
| | 15:20-15:40 | | Coffee break | |
| | 15:40-17:40 | | Oral Session 2 | |
| | 18:00-19:30 | Banquet | | |
| 2016-07-10 | 08:40-17:40 | | | Registration |
| | 08:40-10:20 | | Oral Session 3 | |
| | 10:20-10:40 | | Coffee break | |
| | 10:40-12:20 | | Oral Session 4 | |
| | 12:20-13:20 | Lunch | | |
| | 13:20-15:20 | | Oral Session 5 | |
| | 15:20-15:40 | | Coffee break | |
| | 15:40-17:40 | | Oral Session 6 | |
| | 18:00-19:30 | Dinner | | |

**Instructions for Presentations**
**Oral Presentation**
**Devices Provided by the Conference:**
Laptops (with MS-Office & Adobe Reader)
Projectors & Screen
**Materials Provided by the Presenters:**
PowerPoint or PDF files
Duration of each Presentation (Tentatively): 20 minutes
Regular Oral Session: about 15 Minutes of Presentation, 5 Minutes of Q&A
Keynote Speech: 40 Minutes of Presentation, 5 Minutes of Q&A
**Poster Session**
Poster Session at outside of Mozart Hall. The time at July 10, 2016 (13:20-17:20)
**Devices Provided by the Conference:**
Space and nails
**Materials Provided by the Presenters:**
90cm(h) × 60cm(b) poster

**July 08, 2016**
**Registration 09:00-17:40**

**July 09, 2016**
**09:00—09:25 Opening Remarks and Take Photos**

**09:25-10:10 Keynote 1**
Cyber-Enabled and Data-Driven Smart Health Control
prof. Qun Jin

**10:10-10:30 Coffee break**

**10:30-11:15 Keynote 2**
Person Re-identification: Benchmarks and Our Solutions
prof. Qi Tian

**11:15-12:00 Keynote 3**
Searchable Symmetric Encryption: Potential Attacks, Practical Constructions and Extensions
Dr. Jinjun Chen

**12:00-13:20 Lunch**

**13:20-15:20 Oral Session 1**
**Session Chair: Zhaohu Fan, The Pennsylvania State University, USA**

| | | |
|---|---|---|
| 11458 | AdaBoost Learning in Compressed Space for Visual Object Recognition | Zhijun Pei, Lei Han |
| 11499 | A Kind of Efficient Data Archiving Method for Historical Sensor Data | Qi Yan, Yong-Yan Wang |
| 11501 | Acquisition of hovering by actual UAV using reinforcement learning | Takuya Sugimoto and Manabu Gouko |
| 11507 | Detection of Moving Objects using Foreground Detector and improved morphological filter | Adedeji Olugboja, Zenghui Wang |
| 11548 | Multi-Cloud PaaS Architecture (MCPA): A Solution to Cloud Lock-in | Robail Yasrab, Naijie Gu |
| 11580 | A framework of multi-index modeling for similarity-based remaining useful life estimation | Mengyao Gu, Youling Chen |
| 11587 | Aircraft Trajectory Prediction based on Genetic Programming | Caikun Zhang, Xuan Zhang, Chuan Shi, Wenfu Liu |

| 11594 | A Novel Reconstruction Method of Magnetoacoustic Tomography with Magnetic Induction Based on the Amplitude of Lorentz Force | Jin Liu, Liang Mao, Dakun Lai |
|---|---|---|
| 11596 | A Delay Sending Mechanism for a CR user's Handoff over CR Networks | Xu Cui, Yukun Wang, Qijia Zhang, Lin Cui |

**15:20-15:40 Coffee break**

**15:40-17:40 Oral Session 2**
**Session Chair: Jun Long, Beijing Institute of Control Engineering, China**

| 11577 | Joint Type Puncture Robot Research | Runtian Liu, Jun Guo |
|---|---|---|
| 11678 | A robust path following controller for a small unmanned aerial vehicle with constrained parameters optimized | Yang Chen, Chaolei Wang |
| 11693 | Optimal Economic Scheduling of Electric Power System Based on Elite Group Guided Quantum-Inspired Evolutionary Algorithms | Sheng Xiang, Yigang He |
| 11707 | Singularity Analysis of a Novel 4-DOF Surgical Robot | Alaa Khalifa, Mohamed Fanni, and Abdelfatah M.Mohamed |
| 11708 | Stewart Platform Manipulator: State Estimation Using Inertia Sensors and Unscented Kalman Filter | Shady A. Maged, A. A. Abouelsoud, Ahmed M. R. Fath El Bab and Toru Namerikawa |
| 11713 | A Small Isolated Power System SCUC Model with State-controllable Wind Power | Ruomeng Jiang; Jianliang Zhong; Sarmad Majeed Malik; Yingyun Sun |
| 11747 | Whether Aspects in Virtual Storefronts Influence Customers' Patronage and Purchase Intention in Physical Counterparts? An Empirical Study | Chen, I-Ching; Hu, Shueh-Cheng |
| 11764 | Research on Robust Relationship Inference in GWAS Parallel Algorithm Based on OpenMP | Jun Lu, Ruiqing Jing, Jun Li, Xingkun Liu, Shenbao Xu, and Wei Zhang |
| 11776 | A Neuro Fuzzy-Based Gait Trajectory Generator for a Biped Robot Using Kinect Data | Ibrahim A. Seleem, and Samy F. M. Assal |
| 11791 | Design of a Novel all Terrains Wearable Vehicle | Bikheet Mohamed Sayed, Mohamed Fanni, and Abdelfatah M.Mohamed |

**18:00-19:30 Banquet**

**July 10, 2016**

**08:40-10:20 Oral Session 3**
**Session Chair: Zenghui Wang, University of South Africa, South Africa**

| 11601 | High-Dimensional Function-on-Scale Regression via the Alternating Direction Method of Multipliers | Zhaohu Fan; Matthew Reimherr |
|---|---|---|
| 11602 | Dynamic Integration for Deep Web Search Results | Bo Liu |
| 11606 | A new cuckoo search and its application of Spread Spectrum Radar Polly Phase Code Design | Yanxia Sun |
| 11622 | Developing the Biome-BGC Model to Estimate Net Primary Productivity of Alpine Meadow on the Qinghai-Tibet Plateau | Sun Qingling, Li Baolin |
| 11657 | Detecting phishing websites based on the study of the financial industry webserver logs | Jun Hu, Xiangzhu Zhang,Yuchun Ji, Hanbing Yan, Li Ding, Jia Li and Huiming Meng |
| 11675 | Access Features Analysis of Things in the Internet of Things | Shulong Wang, Yibin Hou*, Fang Gao，Xinrong Ji |
| 11717 | A Manycore Processor Based Multilayer Perceptron Feedforward Acceleration Framework for Embedded System | Fang Gao, Zhangqin Huang, Shulong Wang, Xinrong Ji |
| 11726 | Designing Brain Training Games and Evaluating the Usability between Young and Elderly | Jung-Ying Wang |

**10:20-10:40 Coffee break**

**10:40-12:20 Oral Session 4**
**Session Chair: Hamed Yadegari, Beihang University, China**

| 11399 | Research on LEACH with Correlated Network Coding | Qihong Tao, Linghua Zhang |
|---|---|---|
| 11404 | Reconstruction of Frequency Hopping Communication Signals Via Analog to Information Converter | Lei Chen, Yu Liu |
| 11457 | The cable phase difference detection of very high frequency(VHF) antenna array based on Ad8302 | Linzhu Yue, Liang Dong |
| 11480 | Transmitter Optimization of Coordinated Multipoint Transmission without Zero-Forcing Constraints | Yanqing Liu |
| 11488 | DNS Protection Against Spoofing and Poisoning Attacks | Mohammed Abdulridha Hussain, Hai Jin, Zaid Alaa Hussien, Zaid Ameen Abduljabbar, Salah H. Abbdal, Ayad Ibrahim |

| 11543 | Research on Movement Direction Estimation Algorithm based on RFID Backscatter Phase | Weiqing Huang, Li Gao, Di Wu, Siye Wang |
|---|---|---|
| 11591 | Research on Airborne Passive Location Based on Extend Kalman Filter With Control Inputs | Jingbo Wang, Xiling Luo |
| 11597 | Digital Adaptive Carrier Phase Estimation in Multi-Level Phase Shift Keying Coherent Optical Communication Systems | Tianhua Xu, Tiegen Liu, Yimo Zhang, Gunnar Jacobsen, Jie Li, Sergei Popov |
| 11639 | EMD adaptive filtering and time-frquency analysis for low turbulence intensity | ZHU Bo, PENG Qiang, TANG Geng-Sheng |
| 11654 | An innovation based DFA and EMD method for denoising fiber optic gyroscope drift signal | Ming Huang, Yuanyuan Liu, Gongliu Yang, Xiao Zhou |
| 11666 | Manipulating Electromagnetic Wave Linear-to-Circular Polarization Conversion Transmitter Based on Periodic Strips Array | Farman Ali Mangi, Shaoqiu Xiao, Deedar Ali Jamro, Saeed Ahmed Khan , Memon Imran and Ghulam Fatima Kakepoto |

**12:20-13:20 Lunch**

**13:20-15:20 Oral Session 5**
**Session Chair: Fang Gao, Beijing University of Technology, China**

| 11732 | Detecting Fraudulent Financial Ratios Using Multicriteria Decision Aid Method | Yang Ruicheng, Guo Rongrong, Shen Qing |
|---|---|---|
| 11739 | Self-Organizing Map Method for Fraudulent Financial Data Detection | Li Jian, Yang Ruicheng, Zhao Shufang, Guo Rongrong |
| 11778 | Knowledge Enhancement of Text and Visualization Based on DBpedia Dataset | Nilubon Phiwngam, Twittie Senivongse |
| 11783 | Gabor Feature based Convolutional Neural Network for Object Recognition in Natural Scene | Yu yao, li chuyi, hu dan, yu weiyu |
| 11805 | Design, Control and Optimization of The Weighing Mechanism for The HWA-NIS up to 20 kg | Bikheet Mohamed Sayed, B. S. Azzam, M. Z. Abdou and A. A. Eltawil |
| 11811 | An improved two-dimensional Gaussian fitting method for space target positioning | Jibo Tan, Jianyu Huang, Kunpeng Wang, Wentang Wu |
| 11818 | A NEW IMAGE PROCESSING ENABLED APPROACH FOR DETECTION OF SCRATCH DEFECTS FOR WIRE-TYPE OBJECTS | Jing Zhang, Yulong Cui, Guannan He, Chaomin Luo, Guijun Miao |
| 11834 | Computer-aided design, Manufacturing and Test of a Ferrite Toroidal Planar Transformer Integrated in a Printed Circuit Board | ROSA ANA SALAS |

| 30148 | What and How Social Commerce: Developing an Integrative Formative Model | Tao Hu; Ping Zhang; Hua Dai |

**15:20-15:40 Coffee break**

**15:40-17:40 Oral Session 6**
**Session Chair:** Li Gao, Institute of Information Engineering, Chinese Academy of Sciences, China

| 11828 | A Novel PWM Based Readout Circuit for Pressure Sensors | Jun Long |
|-------|------------------------------------------------------------|----------|
| 11841 | Aircraft Rerouting Decision-making Model under Severe Weather | Yixian Liu, Chunyan Han, Houliang Qi, Zhiliang Zhu |
| 11845 | Research and Improvement of Aircraft Rerouting Method Based on Flight Forbidden Areas | Chunyan Han, Yixian Liu, Xiangkun Ding, Jianzhong Qiao |
| 11903 | Design and implementation of Ship motion model based on the semi-physical simulation system | Xiaomeng Bai, Gongliu Yang, Yuanyuan Liu, Zhenyuan Wan |
| 30500 | Study on vehicular SINS in-moving alignment algorithm | Zhenyuan Wan; Gongliu Yang; Yuanyuan Liu; Xiaomeng Bai |
| 11756 | Hybrid Forwarding HARQ Scheme for Cooperative Communication in Wireless Networks | Xi Wu, Zhanji Wu, Yang Long |
| 11821 | Centralized Spectrum Sharing using Reinforcement Learning | Yang miao, ye neng, li jianguo, yu hanxiao |
| 11825 | Multi-fractal Property and Long-range Correlation of Chaotic Time Series | Linhua Deng |
| 11829 | Study on Anti-jamming Frequency Selection in Radar Netting | Zhao Xiaoliang, Lei Ming |
| 30437 | Finite Time Sliding Mode Controller for a Rigid Satellite in Presence of Actuator Failure | Hamed Yadegari, Han Chao, Zhu Yukai |

**13:20-15:00 Poster Session 1**

| 11395 | Study on Transportation and Replenishment Demand Forecasting Problem of Naval Warship | Peng Dong, Peng Yu, Furong Qin |
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| 11403 | Web Identification Image Recognition Based on Deep Learning | Yanling ZHAO, Xinchang ZHANG, Mei XU, Zhanquan SUN, Guangqi LIU, Shifeng LI |
| 11412 | Numerical Analysis on Dynamic Responses of Earth-rock Dam with Polymer Anti-seepage Wall under Seismic Load | Li Jia, Zhang Jingwei, Hu Huimin |
| 11418 | Post-Synthesis Simulation Based on None Project Mode of Vivado | Wenhua Ye, Huan Li |
| 11423 | A Survey on Frameworks and Methods of Question Answering | Yaqing Liu, Xiaokai Yi, Rong Chen, Yingjie Song |
| 11424 | Robust Visual Tracking Algorithm Based on Structural Multi-scale Features Adaptive Fusion in Co-training | Chao Zheng, Wei Jin, Fang Fang, Chong Tang, Yongshun Ling |
| 11426 | Spatial Pattern & Quantitative Relationship of Industrial Structure of Shandong Peninsula Urban Agglomeration | Shan Baoyan, Wang Li'e |
| 11430 | Effective Blog Pages Extractor for Better UGC Accessing | Kui Zhao, Yi Wang, Xia Hu, Can Wang |
| 11435 | Removing natural objects from the sea surface background image based on contour map and Iocal-Hausdorff distance | Li Chonglun |
| 11439 | A Two-Stage Ranking Scheme for Pseudo Relevance Feedback | Rong Yan, Guanglai Gao |
| 11442 | A Novel Illumination Compensation Method with Enhanced Retinex | Libo Zhang, Lin Yang, Tiejian Luo, Yihan Sun |
| 11443 | Exact Real Algorithms for Transcendent Functions | Petr Kurka |
| 11446 | An Adaptive Hybrid Genetic Algorithm for VLSI Standard Cell Placement Problem | Xiongfeng Chen, Geng Lin, Jianli Chen, Wenxing Zhu |
| 11452 | Increasing Diversity and Controlling Bloat in Linear Genetic Programming | Bo Cao, Zongli Jiang |

| 11454 | Robust Infrared Small Target Detection Via Temporal Low-rank and Sparse Representation | Haoyang Wei, Yihua Tan, Jin Lin |
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| 11460 | The Framework and Its Implementation for Managing Component-based Software Evolution | linhui Zhong, jing Xia, xiaoming Huang |
| 11463 | Study on the Emotion Factor Space of Men's T-shirt | Haibo-Zhang, Chunyan-Zhang |
| 11464 | A stochastic neuron model for finding a near-maximum independent set of a circle graph | Fu-Ting Wang, Shougo Hatanaka, Rong-Long Wang |
| 11466 | Design and Implementation of Examination Affairs Management System | Hui Xu, Rongxiang Guo, Liting Lei, Rongrong Fan |
| 11469 | A Uniform Identity Authentication Method Based on Cookie Ticket | Dejun Chen, Zhuang Xiong, Yaqi Zhang, Xiaoli Kong, Yihong Long |
| 11477 | An Approach of XML Schema Matching using Top-K Mapping | Hongjie Fan, Kejun Deng, Junfei Liu |
| 11479 | Motion-Based Feature Selection and Adaptive Template Update Strategy for Robust Visual Tracking | Baofeng Wang, Zhiquan Qi, Sizhong Chen |
| 11481 | Moving Target Tracking Algorithm Based on Scale Invariant Optical Flow Method | Jianbo Xu, Jingwei Li |
| 11490 | A Component Business Model-based Approach for Business Architecture Integration of C4ISR System | Jiong Fu, Aimin Luo, Xueshan Luo, Junxian Liu |
| 11487 | Quantum codes derived from self-orthogonal codes over large finite rings | Huimin Lu, Xuedong Dong, Zhenxing Liu, Meili Zhang |
| 11500 | An Efficient Algorithm for Probabilistic RkNN Query on Uncertain Data with Large k | Shengsheng Wang, Chuangfeng Wang, Wei Liu, Qi Wang |
| 11502 | Combining Color Attributes for Scale Adaptive Correlation Tracking | Yulong Xu, Hang Li, Yang Li, Jiabao Wang, Weiguang Xu, Yafei Zhang, Zhuang Miao |
| 11504 | RFID Authentication Protocol with Enhanced-Bivium | Shiyong Zhang, Gongliang Chen, Jianhua Li |
| 11508 | Applying Orientation Gradient Model to Detect Image Noise | Gang Wang, Zhuzhong Yang |

| 11509 | A Tow-Level Buffered SDRAM Controller | Tian Jin, Wenxin Li, Xiangyu Hu |
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| 11521 | TextRank algorithm by exploiting Wikipedia for short text keywords extraction | Wengen Li, Jiabao Zhao |
| 11523 | Improved Nonlocal Means for Low-Dose X-Ray CT Image | Junfeng Zhang, Yang Chen, Limin Luo |
| 11526 | Model-Free 3D Interaction with Rotation and Swipe Gestures Using Kinect | Shanil Anushka Fernando, Chunyi Chen |
| 11535 | Limited-view CT Reconstruction Based on Discrete Krawtchouk Moments | Xiubin Dai, Dandan Shi, Huangjian Deng |
| 11539 | Medical Image Transmission Strategy Based on Bandwidth Sensitivity and Multi-resolution | Xu Hongbo, Jiang Jianhua, Zeng Wenquan, He Yongjun |
| 11541 | Image Restoration From a Single Blurred Photograph | Li Yang |
| 11545 | Neural Network Pattern Recognition Based Non-intrusive Load Monitoring for a Residential Energy Management System | Chenyi Zhou, Song Liu, Peng Liu |
| 11549 | Design and Implementation of Power Information Visualization Platform Based on Smart Meter | Meiling Lu, Song Liu, Peng Liu, Qiaoshuo Li |
| 11550 | Rule Reduction in Air Combat Belief Rule Base Based on Fuzzy- rough Set | Baibing Wu, Jian Huang, Wanying Gao, Jiangtao Kong |
| 11551 | A Subnetting Mechanism with Low Cost Deadlock-Free Design for Irregular Topologies in NoC Based Manycore Processors | Xing Han, Yuzhuo Fu, Jiang Jiang, Chang Wang |
| 11558 | Study on Optimization of Small-scale and Simplified Models for Air-core Reactors | Xuebin Lv, Debing Li, Yingchun Feng, Xiuqun Zhang |
| 11560 | Investigation on Interaction of Air-core Reactors Based on Scaling Rules | Yingchun Feng, Debing Li, Rui Huang, Xiuqun Zhang |
| 11567 | Discrete Bat Algorithm for Traveling Salesman Problem | Zhao Jiang |

| 11569 | Normalized Spare Matric Funciton and Shock Filter Jointed Blur Trajectory Estimation for Image Deblurring | Yingkui Du, Panli He, Nan Wang, Xiaowei Han, Zhonghu Yuan |
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| 11589 | Coalmine Gas Concentration Analysis Based on Support Vector Machine | LIU Kun, YANG Ling-Kai, ZHANG Mei-Ling, CHENG Jian |
| 11599 | An Automatic and General Framework for Domain-Specific Knowledge Bases Extracting | Kejun Deng, Hongjie Fan, Junfei Liu |
| 11600 | Hand Tracking based on Improved Particle Filters with Elliptical Region Covariance Descriptors | Yi Zheng, Ping Zheng |
| 11607 | Oil spills identification in SAR image using Optimized RBF network model | Zhou Hui, Chen Peng |
| 11614 | Evaluating SPECWeb 2009 on High-Density and Low-Energy Sugon Cloud Servers | Yitao Chen, Ding Xie, Hao Cheng, Xiaojun Yang, Hua Nie, Taoying Liu |
| 11619 | Email Network Important Nodes Mining Using Core Number and PageRank | XiangHui Zhao, ZhiRong Li, JunKai Yi |
| 11620 | Statistical-based Bayesian Algorithm for Effective Email Classification | XiangHui Zhao, Yangping Zhang, Junkai Yi |
| 11623 | Detecting Buffer Boundary Violations based on SVM | Qingkun Meng, Bin Zhang, Chao Feng, Chaojing Tang |
| 11629 | A Vision Based Method for Object Recognition | Yiting Zhang, Jianning Liang |
| 11633 | Research on Crime Degree of Internet Speech Based on Machine Learning and Dictionary | Yunpeng Hu, Shigang Wang |
| 11634 | IP Address Geolocation Method Based on Network Flow Analysis | Zihan Zhuo, Zhongjin Liu, Lixuan Guo, Yueying He |
| 11636 | Friend Recommendation Algorithm for Online Social Networks Based on Location Preference | Manfang Wu, Zhanquan Wang, Haoran Sun, HaiLong Hu |
| 11641 | Temperature Analysis in the Fused Deposition Modeling Process | Yong zhou, Timo Nyberg, Gang Xiong, Dan Liu |

| 11644 | Towards a Composite XML Schema Matching Approach using Reference Ontology | Hongjie Fan, Junfei Liu, Kejun Deng |
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| 11647 | A Framework of e-Learning Education Clouds to Efficiency and Personalization | Shardrom Johnson, Xubin Liu, Hui Miao, Jiajin Yuan, Yong Jin, Qin Wei, Zhao Xu |
| 11649 | Research on Automatic Visual Inspection Method for Character on Cartridge Fuse based on Template Matching | Zou Yuanyuan |
| 11651 | The Detection Method for Two-Dimensional Barcode Malicious URLs Based on the Hash Function | Jiang Xuan, Li Yongzhen |
| 11656 | Collaborative Filtering Algorithm Research Based on Matrix Factorization and Muti-path Trust Degree Fusion | Ye Hanmin, Zhang Qiuling, Huang Peiliang |
| 11658 | A Template Independent Approach for Web News and Blog Content Extraction | Xueyang Ma, Hongli Zhang, Xiangzhan Yu, Yingjun Li |
| 11662 | Research on User-oriented Short Text Clustering | Dezhi Gu, Zaiyue Zhang, Xiaoru Zhang, Liangliang Liu |
| 11668 | Provable Security Analysis on Unbounded Hierarchical Identity-based Encryption and Attribute-based Encryption | Yajun Jiang, Ming Du |
| 11670 | APPLICATION IN VEHICLE FUEL CONSUMPTION FORECAST BASED ON ICPSO-LSSVR | Ping Jiang, Xiaoyong Li |
| 11676 | The Design and Realization of Mongolian Medicine Prescription Data Mining System | Zhang Chunsheng, Tu Ya |
| 11677 | Mesh-partitioning Metrics for Parallel Preconditioned Conjugated Gradient Solvers in CFD | Miao Wang, Xiaoguang Ren, Hao Li, Juan Chen |
| 11679 | Automatic Classification of Massive LAMOST Spectra with RBF Neural Network | Jiang Bin, Wang Wenyu, Qu Meixia, Wang Wei, Gao Jun |
| 11680 | Classification of Hyperspectral Image Based on K-means and Structured Sparse Coding | Yang Liu,Yangyang Wang |
| 11687 | An imbalanced data classification method driven by boundary samples-Boundary-Boost | Kewen Li, Xianghua Fang, Jiannan Zhai, Qinghua Lu |

| 11695 | A Collaborative Filtering Method for Trustworthy Cloud Service Selection | Guojun Sheng, Ying Cao, Yanxia Lu,Yao Li |
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| 11696 | Vehicle Tracking incorporating Low-Rank Sparse into Particle Filter In Haze Scene | wu gang, Zeng Xiaoqin, Su Shoubao, Lu Hong |
| 11697 | Research on Robustness Recognition Algorithms in Augmented Reality | Shuman Liu, Shuiying Ge, Haitao Yu |
| 11698 | Construction of the Patent Data Resource Service Center | Lin Xiaoguang, Wang Xiang, Yang Yong, Hu Zunshuang |
| 11705 | DIGITAL RIGHTS MANAGEMENT - CURRENT STATUS AND FUTURE TRENDS | Hisham Abdalla, Xiong Hu, Abubaker Wahaballa, Ahmed Abdalla, Mohammed Ramadan, Qin Zhiguang |
| 11710 | Segmentation Algorithm of Color Block Target Captured by CCD Camera Based on Region Growing | Zhenghua Shu, Guodong Liu, Zhihua Xie, Zhong Ren |
| 11711 | Application of TEXTIO in the Simulation of FPGA Image Processing Algorithm | Shuyan Zhang, Juan Zhu, Chao Wang |
| 11712 | A method for color calibration based on Simulated Annealing Optimization | Haifeng Yu, Tian Cao, Bo Li, Rong Dong, Huiyu Zhou |
| 11715 | Application of BP Neural Network Based on Genetic Algorithms Optimization in Prediction of Postgraduate Entrance Examination | LI Chi, LI Lin |
| 11723 | Data Mining for WDMS in SDSS DR12 Archive | Jiang Bin, Ma Chunyu, Wang Wenyu, Wang Wei, Gao Jun |
| 11734 | Research on Improvement of KD-RTI Communication Mechanism Base on DDS | Yibin Tu, Jianguo Hao, Xiang Ji, Xiaoyuan Zhou |
| 11735 | An Operable Matching Algorithm for Bigraphs | Dong Xu, QingQuan Shi |
| 11740 | A Simplified HS Algorithm in Optical Flow Estimation | Wei Weibo, Liu Bowen, Pan Zhenkuan, Wang Zhi |
| 11742 | Integrating Extreme Learning Machine with Kalman Filter to Bridge GPS Outages | Zheng Jingsen, Zhao Wenjie, Han Bo, Wen Yali |

| 11748 | A cloud computing resource allocation model based on combinatorial double auction | Jun Xu |
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| 11752 | A Fused Multi-feature Based Co-training Approach For Document Clustering | Yuanqing Wang, Wenjun Wang, Weidi Dai, Pengfei Jiao, Wei Yu |
| 11753 | Risk Warning System based on Big Data applied in the Power Informatization of State Grid | Long Chen, Yujian Chao, Yuandong Ma |
| 11757 | Detecting Fake Reviews Utilizing Semantic and Emotion Model | Yuejun Li, Xiao Feng, Shuwu Zhang |
| 11759 | TFT-LCD mura defect detection based on ICA and multi-channels fusion | Xiu Wang, Rong Dong, Bo Li |
| 11771 | The application of SHESN on financial time series prediction | Fangzheng Xue, Qian Li, Xiumin Li, Hongjun Zhou |
| 11773 | CloneAyz: An Approach for Clone Representation and Analysis | Yue Yuan, Fanlong Zhang, Xiaohong Su, Tiantian Wang |
| 11777 | Ultra-lightweight Malware Detection of Android Using 2-level Machine Learning | Li Ma, Yuexiang Yang, Xiaolei Wang, Jie He |
| 11786 | Research on the Algorithm for Grouping Battlefield Targets | Xiang Ji, Jianguo Hao, Yibin Tu, Heng Zhang |
| 11787 | Research on the Computing Framework in Big Data Environment | Yunqing Liu, Jianhua Zhang, Shuqing Han, Mengshuai Zhu |
| 11789 | Seismic Spectrum Analysis of High-rise Building Based on the Finite Element Methods | Guannan Yao, Shaobo Zhong |
| 11792 | Single smog image dehazing method | Wang Rui, Wang Guoyu |
| 11793 | A CAD/CAM system for complicated jacquard circular knitting machine | Xin Ru, Laihu Peng, Weimin Shi, Weikang Zhou, Chunya Shen |
| 11798 | A scalable recipe recommendation system for mobile application | ZhengXian Li, Jinlong Hu, Jiazhao Shen, Yong Xu |

| 11801 | An Improved Multiple Features Fusion Method for Image Spam Filtering | Saijie Yuan, Chongyang Zhang |
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| 11804 | Soft-constrained Random Walk Propagation for Hierarchical Image Matting | Qiufeng Chen, Pengfei Liu, Quntai Shen, Jianhua Liu |
| 11806 | Revocation Mechanism for Hierarchical Clustered Structure in Space-Air-ground Integrated Network | Ivan Edmar Carvajal Roca, Jianwei Liu, Mokhtar Maamar |
| 11807 | Application of High Dimensional Feature Grouping Method in Near-infrared Spectra of Identification of Tobacco Growing Areas | Cheng Zhu, Huili Gong, Zhongren Li, Chunxia Yu |
| 11810 | A Semi-automatic Approach to Reduce Uncertainty of Schema Matching | Gang Xie, Yuqing Lan |
| 11814 | Study on the impact of the depth of 3D subtitles on visual comfort | Yan Wu, Qi Li, Jingjing Yang, Xiujun Li, Ning Gao |
| 11816 | Study On The Traffic Flow Under Keep-Right-Except-To-Pass Rule Based On Dynamic Model | Xiaofang Yang, Yanping Nie |
| 11817 | Deep Web Schema Matching Based on Concept-word and Semantic-heterogeneous Model | Chen Lijun |
| 11833 | Hyperspectral Unmixing Based on Weighted L1/2 Regularization | Yan Li, Kai Li |
| 11835 | A Method for Cracking the Password of WPA2-PSK Based on SA and HMM | Liang Ge, Lianhai Wang, Lijuan Xu |
| 11836 | An APT Trojans Detection Method for Cloud Computing Based on Memory Analysis and FCM | Liang Ge, Lianhai Wang, Lijuan Xu |
| 11842 | Component Refinement and its One Type in the Model of EOOPN | Na Zhao, Jian Wang, Yong Yu, Yongzhi Fu, Xue Sun, Lei Zhang, Zhendi Yang |
| 11844 | Subnet Equivalent Models of EOOPN and their Time Performances Analysis | Na Zhao, Jian Wang, Yongzhi Fu, Jianglong qin, Zhendi Yang, Xue Sun, Lei Zhang |
| 11846 | Structural model updating of frequency response function based on Kriging model | Jutao Wang, Chunjie Wang |

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| 11855 | Distributed Database Query Based on Improved Genetic Algorithm | ShaoHua Liu, Xing Xu |
| 11858 | Multi-feature Fusion for the Edge Tracing of PolSAR Oil Slick | Peng Men, Congcong Wang, Hao Guo, Jubai An |
| 11864 | A Method of Predicting Crude Oil Output Based on RS-C4.5 Algorithm | Xue Bao, Xin Guan |
| 11866 | The research on the optimization of data storage of the explosion-proof equipment status monitoring based on cloud platform | YIN Hong, LI Dong, SUN Ze-xian, LIN Tao |
| 11880 | A Cluster-Based Passive Direction Finding Cross Location Method | Lei Ming, Tian Liang |
| 11910 | Time Performance Analysis on Layer Model EOOPN | Na Zhao, Jian Wang, Peng Li, Rui Zhu , Lei Zhang, Zhendi Yang, Xue Sun |
| 30119 | Anomaly Detection of User Behavior for Database Security Audit Based on OCSVM | Yong Li, Tao Zhang, YuanYuan Ma, Cheng Zhou |
| 30163 | Underwater Image Segmentation Methods Based on MCA and Adaptive Level Set Evolution | Jisong Bai, Yongjie Pang, Qiang Zhang, Yinghao Zhang |
| 30222 | Pedestrian Fall Action Detection and Alarm in Video Surveillance | Jin-xiang Wang, Yan-rong Hou |
| 30303 | Study on Software Safety for Naval Equipment System | Bin Chen, Juan Li, Xiangjian Chen |
| 30319 | Research on Critical Technologies of Manufacturing Execution Based on Cloud-Service | Tao Ding, Guangrong Yan, Yi Lei, Xiangyu Xu |
| 30345 | Self-taught learning features for human action recognition | He Jingjing |
| 30364 | The Detection System for Greenhouse Tomato Disease Degree Based on Android Platform | YOU-WEN TIAN, PENG-HUI ZHENG, RUI-YAO SHI |
| 30428 | A New Method of Spacecraft Assembly Integration Alignment Test Based on Virtual Cubic Prism | Wang Wei, Tao Li, Guo Jieying, Liu Haomiao |

| 30435 | An Adaptive Image Segmentation Method Based on Kernel FCM Algorithm | Huang Zhenhai, Wang Yuchuan, LiYuntang |
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| 30491 | Service Supply Chain Disruption Coordinating Model Based on Stochastic Service System | Ma Xuesong |

**15:00-16:20 Poster Session 2**

| 11405 | Control spatiotemporal chaos in coupled logistic lattices with pinning double feedback | Lijing Zhang, Baixiang Sun, Daxin Liu |
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| 11406 | Wavelet transformation application in new type inertial navigation system test equipment | Baixiang Sun, Lijing Zhang, Chunhong Hu |
| 11429 | An Anomaly Detection Algorithm of Satellite Power System Based On CUSUM Control Chart | Li Yuqing, Yang Tianshe, Cheng Xueliang, Wang Rixin, Xu Minqiang |
| 11431 | A Variable Step Size based Improved Multiband-structured adaptive filter algortihm | Chang Liu, Zhi Zhang, Caishen Wang |
| 11447 | Three-Dimensional Tracking Control of Mid-Water Trawl System Based on Backstepping Method | Zhao Yan, Yunsheng Mao, Bin Liu, Chenggang Liu |
| 11450 | Optimization Method of Advanced Metering Infrastructure Power Outage Site Diagnosis | Aliaosha Ye, Xuan Liu, Guoquan ZHENG, Zitong Yan |
| 11451 | Comparison of Motion Disturbance Characteristics between Traditional Load Simulator and Friction Load Simulator | Jing Chenghu, Xu Hongguang |
| 11461 | Design and Stability Analysis of a Wheel-Track Robot | Dengqi Cui, Xueshan Gao, Wenzeng Guo, Han Dong |
| 11467 | An improved Prediction Method of Protein Disulfide Bond | Pengfei Sun,Yunhong Ding |
| 11471 | Analysis on the Resonance Frequency of Comparison Calibration of the Piezoelectric Accelerometer | Zhihua Liu, Chenguang Cai, Mei Yu, Yan Xia, Jingsheng Li |
| 11485 | An Intelligent Web-based Workstation for Operation Analysis in Smart Power Plants | Yuechao WU, Yanan LI, Bailin LI, Zhaohui LI, Nanxuan ZHENG, Huajia SU |
| 11486 | A Stable Walking Strategy of Quadruped Robot Based on Foot Trajectory Planning | Mingmin Liu, Fang Xu, Kai Jia, Qifeng Yang, Chong Tang |

| 11489 | A Method to construct the Confidence Intervals for Process Capability Indices based on Fuzzy Set Theory | Zhirong Sheng, Longsheng Cheng |
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| 11497 | Vector Control of Induction Machines via Firefly Algorithm for Speed Application | LingZhi Yi, YongBo Sui, WenXin Yu |
| 11510 | Analysis and Study of Resonance Monitoring and Suppression Strategies of EHV Main Transformer | SONG Wei, LI Zhendong, ZHANG Jinxiang, CHEN Junfa, BAI Feng, LIU Qimeng, ZHAO Wei |
| 11511 | Analysis on the behavior of protection of 500kV Breaker Protection | WANG Yanzhao, LI Zhendong, YU Wenbo, WU Xiaobo, WAN Xiaoguang, XUE Xiaolong, ZHANG Lei |
| 11515 | An Analysis on the Influence of the Staggered Distance between PCB Rectangular Coils to the Wireless Energy Transmission efficiency | Wenxiao Li, Bo Yin |
| 11520 | Application of Modern Optimization Algorithms in Holes Machining Path Planning | Lijun Zhang, Xiaoyi Luo, Shizhao Xing |
| 11534 | A Novel Bottleneck Identification based Differential Evolution Algorithm for Scheduling Complex Manufacturing Lines | Yong Sun, Peng Jiang |
| 11536 | Study on H∞ Control of Active Magnetic Suspension Spherical Rotating Joint | Zhang Fan, Zeng Li, Zhu Jun |
| 11561 | The decoupling control of tandem cold rolling tension and gauge | An Shiqi |
| 11562 | Separation Algorithm of the Single Channel Mixed Noise in 330kV Substation | Bin Liu, Lijuan Wu, Shuai Ma, Xingli Zhao, Chao Wang, Bin Ren, Zhaoxue Meng, Han Liu |
| 11565 | Analysis of GIS mechanical vibration signal based on EMD algorithm | Zhigang Wu, Bing Liu, Lijuan Wu, Shuai Ma, Bing Ren, Jiangtao Su, Yan Hou |
| 11572 | Automatic Agricultural Land Irrigation System By Fuzzy Logic | Zohaib Mushtaq, Syeda Shaima Sani, Khizar Hamed, Amjad Ali, Aitizaz Ali, Syed Muhammad Belal, Abid A.Naqvi |
| 11576 | Environment Control System for Livestock Sheds using Fuzzy Logic Technique | Zohaib Mushtaq, Akbare Yaqub, Muhammad Jabbar, Adnan Khalid, Saania Iqbal, Kamran Zeb, Abid A.Naqvi |

| 11586 | Fringing Capacitance and Tolerance of DRIE Effect on the Performance of the Comb-drive Actuator | Jidong Jin, Chunhua Cai, Dong Yang, Ming Qin |
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| 11646 | Dynamic surface Back-stepping Control of Multi rotor Aircraft | Jianxin Liu, Yong Zhang , Zhichao He, Shengle Zhang, Jianbo Zhou |
| 11669 | Automation control of Emissivity Measurement Process Based on LabVIEW | Zhang Yufeng, Li Ming, Fu Ying, Yu Zhandong |
| 11673 | Research on the Radiated Sound Field of Roller Driving System Based on the AML Finite Element Method | Zeng Xianren, Li Limei |
| 11689 | Research on Control Strategy for a Multiple Grid-Connected-Inverter System | Xie Wenhao, Peng Haojie, Wang Jianze, Ji Yanchao |
| 11690 | The Reasearch on Photometric Model of Cataclysmic Variable | WANG Wen-yu, BA Jin-sheng, SHI Yu-feng, JIANG Bin |
| 11694 | Design and Simulation of Immersing and Palletizing Robotic Manipulator for the De-NOx Catalyst Production Line | Li Shuiping, Li Xueqin, Wang Liang |
| 11699 | Comparison of Various Neural Network Language Models in Speech Recognition | Lingyun Zuo, Xin Wan, Jian Liu |
| 11701 | Integrated guidance and control for a hypersonic vehicle   with recursive H∞ method | Tun Zhao, Peng Wang, Luhua Liu, Jie Wu |
| 11720 | Observer Design of Discrete Time T-S Fuzzy Systems With Measurable Premise Variables Based on Fuzzy Lyapunov Function Approach | Mohamed R. M. Rizk, Mazhar B. Tayel, Walied M. Saed |
| 11722 | Research on a New Technology of Controlling Parallel Inverters | Wen Tong, Liu Junwei |
| 11730 | A coupling system design based on the internet of tings and intelligent decision support system in industrial enterprises | Huimin WAN, Liankai Liao |
| 11738 | Dual-mode predictive control of solid oxide fuel cell | Han Miaomiao, Zhou Baozhong |
| 11741 | Combination of Conflict Evidence Based on Bayesian Approximation | Xu Aiqiang, MengLe |

| 11743 | A New Control Method for Inverters Parallel Operation in Microgrid | Wen Tong |
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| 11745 | Research of the Volatility of Stock Price of B to C Electronic Commerce Enterprise by Fractal Method | Ming Chen |
| 11749 | Research on Linkage Disequilibrium Method based on OpenMP | Jun Lu, Jun Li, Ruiqing Jing, Qiong Wang, Cheng Chang, Jiaxing Guo |
| 11755 | Simulation and Experimental Research on a Hydraulic-mechanical Joint Model of a Demolition Robot's Main Arm | Gu Sanhong, CEN Yuwan, HUANG Jianzhong, YE Ye |
| 11758 | An algorithm to determine the index of structural controllability for network system | GU Tian, LI Xiaoli, ZHAO Shuguang, ZOU Chuanzhi |
| 11760 | Optimal control of spacecraft for close proximity with collision avoidance | Qing Ni, Licheng Feng, Yiyong Huang |
| 11761 | Trajectory Tracking Control of Micro-Aerial Vehicle Based on Fuzzy GS-PID | Liqiang Zhang，Mengxiang Lin，Rong Ding，Fangrui Fan，Chuansheng Zhang |
| 11768 | Second-order Coordination Control for Triangle Formation Based on Angle Constraints | Jing Guo, Yong Chen, Jun Wu, Caixia Zhang |
| 11769 | Distributed photovoltaic power access scheme for intelligent power consumption management system | YAO Guofeng, LI Tianjie, ZHAO Daming, HE Wei, XU Peng |
| 11772 | Influence of Flight Speed on Temperature and Infrared Radiation Characteristics of Aircraft Skin | Yunsong Feng |
| 11779 | Study on transmission non-uniformity of the wide field-of-view optics | Ligang Chen, Weiwei Feng |
| 11781 | Evaluating the feasibility of a novel approach for SSVEP detection accuracy improvement using phase shifts | Gaopeng Sun, Ruimin Wang, Yue Leng, Yuankui Yang, Pan Lin, Sheng Ge |
| 11784 | Sample Selection in Support Vector Machines: A Fixed Neighborhood Sphere Approach | Dongyin Pan, Yujun Yin, Yujun Sun, Ning Ye |
| 11788 | Searching in Navigable Small-World Network | Zhao Pengfei, He Dongzhi |

| 11794 | Web Application Automatic Testing Solution | Xiao Dawei, Jiang Liqiu, Xu Xinpeng, Wang Yuhang |
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| 11796 | Speed Governing Controller of Gasoline Engine based on Integral-separation Fuzzy PID Control | Haiying Yu, Yaodong Liu, Yan Wang, Meng Wang, Xuhui Qin |
| 11808 | Design of an underground attitude measuring sonde for directional drilling locator | Xu Tao, Jiang Bo, Chen Xiaolu, Shi Yi |
| 11813 | A Positioning System Based On Monocular Vision For Industrial Robots | Mingyu Gao, Yeqing Yan, Yuxiang Yang, Jiye Huang, Zhiwei He |
| 11815 | Medical Image Segmentation Based on the Watersheds and Regions Merging | HUANG Zhanpeng, Zhang Qi, JIANG Shizhong, Chen Guohua |
| 11819 | Parameter Identification of a Biological Process: A Compartive Study | Gongxian Xu, Mingmei Wang |
| 11831 | Research on Fault Diagnosis of Diesel Engine Fuel Injector Based on LABVIEW | Xiaofeng Ma |
| 11832 | Design and Control on Pulsed High Energy Density Beam Power Supply | Xu Guoning, Li Zhaojie |
| 11838 | Introduction of Advanced Control Strategy for Coking Flue Gas Processing | Yaning Li, Xuelei Wang, Jie Tan |
| 11854 | Design of Control System for a Rehabilitation Device for Joints of Lower Limbs | Yongchang Cai |
| 11890 | An Enhanced Predictive Control Structure for Networked Control System with Random time delays and Packet Dropouts | Ying Wu, Yanpeng Wu, Yue Zhao |
| 11915 | seismic wavefield separation based on sparsity representation | Xiao Yunshi, Zhao Yanqing |
| 12996 | Finite Element Modeling of Atherosclerotic Plaque Evolution | Kirillova I.V., Kossovich E.L., Safonov R.A., Chelnokova N. O., Golyadkina A. A., Shevtsova M.S. |
| 30097 | IEKF-based Self-Calibration Algorithm for Triaxial Accelerometer | LU Xin, LIU Zhong |

| 30221 | Research on Robot Obstacle Avoidance Method on PSD and Sonar Sensors | Jin-xiang Wang, Yan-rong Hou |
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| 30263 | Research on the Parametric Design and Manufacture of Spherical Tungsten Carbide Burs Using a Five-Axis CNC Grinding Machine | Kai Wang, Jianfei Sun, Wuyi Chen |
| 30266 | Bidirectional Droop Control of Interlinking Converter in AC/DC Hybrid Micro-grid | JI Yu, WU Ming, LIU Haitao, LI Yang, ZHANG Ying |
| 30304 | Design of Non-smooth Synchronous Control Method for Stage Lifting Machinery | Jianhui Wang, Qing Wang, Li Zhang |
| 30367 | Simulation on Controlled Strong Magnetic Environment for Electronic Fuze during Railguns Launching | Qiang Li, Ming Wei, Qing-ao Lv, Hongjun Xiang, Bin Lei |
| 30382 | Adaptive N-tree Anti-collision Algorithm Based on Collided Bit Collided Bit | Li Zhiwen, Sun Min |
| 30404 | Design of digital information share system in power distribution network | Peng Huang, Rui Liu, Juan Mo, ZhengGang Fang |
| 30417 | Research and Application of Electricity Anti-stealing System Based on Neural Network | Li Yinghui, Wang Qingning, Zhang Donghui, Sun Xiangde, Shen Yang, Xu Xianglian |

**16:20-17:40 Poster Session 3**

| 11414 | Research on Sinusoidal Compression Algorithm for Power Signal based on Four-parameter Sine Fitting | Guangfu Liu, Xue Dong |
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| 11415 | Multiple access DS-UWB using linear chirp encoding waveforms | Zhou Jin, Sun Qiuming, Zhang Yanjun, Majun |
| 11432 | Equivalent Analysis Method of the Transmission Characteristic of a Laser in Atmosphere Turbulence | Ren Bin, Chen Chunyi, Ni Xiaolong, Zhang Feng |
| 11455 | A Software Design of Central Processing in Integrated System of Satellite Navigation and Communication | Hu Zhengqun, Pei Jun, Lv Chang |
| 11459 | Triple Level High Voltage CMOS Driver Array for Smectic-A Electric Paper Display | Lu Xiaodong, Shan Qiang, Zhang Haiying |
| 11462 | An FPGA Based Multi-functional Signal Generator Using SOPC Design Methodology | Ruan Yue, Yao Wen-ji, Wang Jinming |
| 11465 | Deployment Cost Optimal for Composite Event Detection in Heterogeneous Wireless Sensor Networks | Xiaoqing Dong |
| 11468 | Monte Carlo Based Operating Reserve Adequacy Evaluation of a Stand-Alone Microgrid Considering | Yue Wang, Lijun Wang, Liangjun Xu, Jie Sun |

| | High Penetrations of Correlated Wind Energy | |
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| 11478 | Study of a Driver-Stage Power Amplifier for Doherty Power Amplifier | Zicheng Xiong, Bin Wang, Chaochao Xu, Shiwei Zhao |
| 11524 | A Low Energy Uneven Clustering Topology Control Algorithm for Wireless Networks | Yanhui Lv, Zhuo Miao, Deyu Zhang, Anying Li |
| 11525 | A Range-based Distributed Localization Algorithm for Wireless Sensor Networks | Yanhui Lv, Sitong Meng, Deyu Zhang, Yunfei Huang |
| 11532 | An Routing Algorithm for Maximizing Network Performace in Energy Harvesting Wireless Sensor Network | Xuecai Bao, Guanqun Ding |
| 11556 | MASPRep: A Reputation Computing Model for Mobile Application Service Providers | Wen-qiang Zhu |
| 11568 | Measurement and Modeling for RF Amplifier Based on Carrier Waveform Distortion in Time Domain | Zhou Feng, Zhang Rui, Cheng Kai, Zhang Pei-yan, Liu Jian-Zhe |
| 11573 | The Study of Optical Links Establishment with Ultra-Wide FOV Acquisition Scheme in FSO Network | Bo Tu, Bingshuang Liu, Shuaifu Dai, Yueying Liu |
| 11610 | The Selection Algorithm Based on Two-hop Relay for Next-generation Cooperative Cellular Network | Jing An |
| 11611 | Reliability Evaluation for Wireless Sensor Network Based on Weighted Voting System with Unreliable Links | Qiang Liu, Hailin Zhang, Yanbo Ma |
| 11616 | Distributed Energy Balanced Routing for Wireless Sensor Network Using Energy Prediction Metric | Quan Guo, Xiaoying Song |
| 11638 | Topology Analysis Based on Concentrated Meter Reading for Low Voltage District | Tong Guanghua, Wang Xingang, Wang Gang |
| 11653 | Hybrid Pre-judging Fix-LLL Lattice Reduction Algorithm for MIMO Detection | Simeng Liu, Ying Yu, Huazhang Lv |
| 11672 | A Simultaneous Analog-Digital Signal Transmission System Based on PFM and PWM | Lei Liu, Mingyu Gao, Zhong Li, Yuanyuan Liu, Zhiwei He, Yun Li |
| 11682 | A New Detection and Estimation Method for Harmonics in Power System by Using Duffing System | Chao Cong, Huiwu Wang |
| 11683 | A Novel Lattice Reduction Algorithm Based on Majority-Logic Decoding for MIMO System | Huazhang Lv, Jianping Li |
| 11688 | Robust adaptive SDRE filter and its application to SINS/SAR integration | Zhaohui Gao, Bingbing Gao, Dejun Mu, Shesheng Gao |
| 11700 | Analysis and Prediction of Epilepsy Based on Visibility Graph | Chongqing Hao, Zhijun Chen, Zhe Zhao |
| 11714 | A Precise Synchronization Method Tolerating Large Capture Error | Xuhua Wang, Tianshe Yang, Mingyang Li, Xi Su |
| 11716 | Peak-to-average power ratio reduction for an artificial noise aided secure communication system | Tao Hong, Zhi-peng Li |

| 11719 | Spectrum Sparseness: A New Method for Frequency Spectrum Analysis Applied to Equipment Condition Assessment | Chang Liu, Xing Wu, Tangfeng Yang, Tao Liu |
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| 11724 | The Overview of Mobile CT | Chaoran Yang, Dayu Xiao, Yueyang Teng, Zixiang Wei, Jinliang Yang, Yan Kang, |
| 11727 | Performance Analysis of NCLMS-based PCMA | Bo Huang |
| 11728 | Simulation and design of organic RFID based on dual-gate OFET | Shu Shen, Lijuan Sun, Ruchuan Wang, Lei Gu |
| 11737 | A Framework of Information Security System for Radio and Television | Jing Tian |
| 11746 | A Secure Data Collection Method Based on Credibility in Wireless Sensor Networks | ZHU Gengming, ZHANG Dandan, LIU Yizhi |
| 11780 | Digital Nonlinear Self-interference Cancellation Based on LMS-Volterra Algorithm | Jiancheng Liu, Houde Quan, Zhaorui Li, Huixian Sun, Ding Yuan |
| 11782 | A novel Indoor Intelligent Location Algorithm based on GA-BFO | ZHANG Lan, MA Hongmei, SUN Changyin, WU Xinqiao |
| 11797 | Dual Watermarking Based on Wavelet Transform for Data Protection in Smart Grid | Qing Chen, Meng Xiong |
| 11812 | Countermeasureof Quantization Noise in IR-UWB System Based on Compressed Sensing | Yunhe Li, Haitao Wu, Shaohua Wu, Jian Jiao |
| 30387 | Adaptive Noise Cancellation for Electromagnetic-While-Drilling System | LIU Keman |
| 30403 | A Mobile Power Quality Monitoring Terminal Based on DSP and ARM | Huang Gang, Xu Xianglian, Yin Qiangqiang, Zhang Kai |
| 30423 | The magnetic modulation of DC transformer core characteristics analysis | Zhiyuan Xie, Sisi Han, Lichong Wang |
| 30430 | A Hybrid Video and RFID Tracking System for Multiple Mice in Lab Environment | Sun Dandan, Xu Lin |

**18:00-19:30 Dinner**

# Contact Us

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