# 2015 International Conference on Information Science and Control Engineering

# ICISCE 2015

# Conference Program

## Vienna Hotels (Shanghai Songjiang)

★ ★ ★ ★

**April 24-26, 2015**

**Shanghai, China**

**Sponsored by**

Tongji University, China

University of Texas at San Antonio (UTSA), USA

**Co-sponsored by**

University of Hull, UK

Xiamen University, China

China Jiliang University, China

Future University Hakodate, Japan

Hunan University of Humanities, Science and Technology, China

Iwate Prefectural University, Japan

# Greeting Message from General Conference Chairs

Welcome to 2015 International Conference on Information Science and Control Engineering (ICISCE 2015)! Welcome to Shanghai, China! We believe that the solid conference program and the amazing city of Shanghai will offer you irresistible attraction.

This year's ICISCE 2015 is sponsored by Tongji University, University of Texas at San Antonio (UTSA), and Co-sponsored by University of Hull, Xiamen University, China Jiliang University, Future University Hakodate, Hunan University of Humanities, Science and Technology, Iwate Prefectural University. Much work went into preparing a program of high quality.

At this very moment, we would like to thank the program committees and the organizing staffs for their hard work. We would like to especially thank Tongji University, University of Texas at San Antonio (UTSA) and Xiamen University for hosting this conference. We would like to deliver our appreciation to the keynote speakers for their great contribution to this conference.

The scope of this conference is to gather researchers from different areas and disciplines to present results and participate in discussions under the common theme of Information Science and Control Engineering. These interactions will facilitate a better understanding of the diversity of the different approaches as well as of their similarities. In addition it will open the way for applying approaches that have been successful in one area to problem solving in different areas and applications.

We wish each of you successful deliberations, stimulating discussions, new friendships and all enjoyment that Shanghai can offer. While this is a truly remarkable Conference, there is more yet to come. We look forward to seeing all of you in Shanghai, China.

Mar. 30, 2015

Prof. Jian Wang, Tongji University, China
Prof. Qi Tian, University of Texas at San Antonio (UTSA), USA
Prof. Shaozi Li, Xiamen University, China

# Committees

**General Conference Chairs**

Prof. Jian Wang, Tongji University, China

Prof. Qi Tian, University of Texas at San Antonio (UTSA), USA

**General Conference Co-chairs**

Prof. Qun Jin, Waseda University, Japan

Prof. Ping Jiang, University of Hull, UK

Prof. Xiaohong Jiang, Future University Hakodate, Japan

Prof. Dimitrios Rigas, University of West London, UK

**Technical Program Committee Chairs**

Prof. Shaozi Li, Xiamen University, China

Prof. Ying Dai, Iwate Prefectural University, Japan

Prof. Daniel Neagu, University of Bradford, UK

Prof. Ming Dong, Wayne State University, USA

**Publicity Chairs**

Prof. Julong Pan, China Jiliang University, China

Prof. Yiannis Papadopoulos, University of Hull, UK

Prof. Gabor Kiss, Obuda University, Hungary

Prof. Neil Y. Yen, University of Aizu, Japan

**Publication Chairs**

Prof. Shaozi Li, Xiamen University, China

Prof. Yun Cheng, Hunan University of Humanities, Science and Technology, China

**Organization Chairs**

Prof. Dongqing Xie, Guangzhou University, China

Prof. Huijuan Lu, China Jiliang University, China

**Program Committee members**

Basabi Chakraborty, Iwate Pref. University, Japan

Bing Xie, Peking University, China

Binqi Li, Jimei University, China

Bo Fan, Henan University of Science and Technoloty, China

Bofeng Zhang, Shanghai University, China

Changjing Lu, Sanming Univercity, China

Chaokun Yu, Minjiang University, China

Chunmin Gao, Hunan University, China

Dagmar Habe, Fraunhofer Institute for Industrial Engineering, Germany

Daniel Tse, City University of Hong Kong, Hong Kong

David Ramamonjisoa, Iwate Pref. University, Japan

Kittichai Lavangnananda, King Mongkut's University of Technology Thonburi, Thailand
Koji Mabuchi, Iwate Pref. University, Japan
Lei Wang, Dalian University of Technology, China
Lei Zhuang, Zhengzhou University, China
Li Yu, Fujian University of Technology, China
Lidong Lin, HongKong University of Science and Technology, China
Li-Shiang Tsay, North Carolina A&T State University, U.S.A
Liyong Chen, Fujian Normal University, China
Lizhen Cui, Shandong University, China
Ljiljana Trajkovic, Simon Fraser University, Canada
Masaki Kurematsu, Iwate Pref. University, Japan
Masaru Fukushi, Yamaguchi University, Japan
Min Xu, Xiamen University of Technology, China
Mingchu Li, Dalian University of Technology, China
Mir Sayed Shah Danish, University of the Ryukyus, Japan
Pei-Chann Chang, Yuanzhi University, Taiwan
Pierre-Marc Jodoin, Université de Sherbrooke, Canada
Ping Wang, China University of Petroleum, China
Pin-Han Ho, University of Waterloo, Canada
Qingcong Lv, Shandong Gongshang University, China
Qingxiong Yang, UIUC, USA
Qingyuan Bai, Fuzhou University, China
Ran-Zan Wang, Yuan Ze University, Taiwan
Regin Cabacas, Kunsan National University, Korea
Richard Tzong-Han Tsai, Yuan Ze University, Taiwan
Rung-Bin Lin, Yuan Ze University, Taiwan
Ruonan Zhang, Northwestern Polytechnical University, China
Satyadhyan Chickerur, B V Bhoomaraddi College of Engineering and Technology, India
Shangfei Wang, University of Science and Technology of China, China
Shaohua Teng, Guangdong University of Technology, China
Sheng Yang, Wuyi University, China
Sheng Zhong, Hainan University, China
Shuili Chen, Jiemei University, China
Shuyuan Chen, Yuan Ze University, Taiwan
Taoshen Li, Guangxi University, China
Tianqiang Huang, Fujian Normal University, China
Tiejun Lv, Beijing University of Posts and Telecommunications, China
Tingquan Deng, Harbin Engineering University, China
Tong Wang, Harbin Engineering University, China
Tzung-Pei Hong, National University of Kaohsiung, Taiwan
Vitaliy Mezhuyev, University Malaysia Pahang, Malaysia
Wang Man, Xiamen University of Technology, China
Wang Xiaoliang, Nanjing University, China
Wangping Sun, Oregon Institute of Technology, USA
Weijin Jiang, Hunan University of Technology, China

**Keynote 1**

**Big Data Analytics through Efficient Modeling and Visualization**

Dr. Ming Dong
Associate Professor,
Department of Computer Science
Wayne State University, USA

*Abstract:*
Today digital data are accumulated at the faster than ever speed in science, engineering, biomedicine, and real-world sensing. The term of Big Data refers to large, diverse, complex, longitudinal, and/or distributed data sets, which has raised new research challenges in data analytics: they are tremendous in size; they come unstructured with heterogeneous features; they are intrinsically dynamic in nature, and knowledge is usually sparsely encoded in large amounts of noisy. This talk presents our recent efforts addressing some of these challenges by incorporating low-rank, sparse approximations into matrix decomposition-based clustering techniques. Specifically, (1) we developed EMD: Exemplar-based low-rank sparse Matrix Decomposition method to fast analyze large-scale datasets; (2) we developed ECKF, a general framework for Evolutionary Clustering large-scale data based on low-rank Kernel matrix Factorization; and (3) we developed a novel technique, Exemplar-based Visualization (EV), to interactively visualize extremely large datasets through efficient parameter embedding. Applications of our techniques in text mining, image segmentation and video analysis will also be discussed.

*Bio:*
Ming Dong received his B. S. degrees in electrical engineering and industrial management engineering from Shanghai Jiao Tong University, Shanghai, China, in 1995. He received his Ph. D degree in electrical engineering from University of Cincinnati in 2001. He is currently an associate professor in the Department Computer Science and the director of Machine Vision and Pattern Recognition Laboratory at Wayne State University. Dr. Dong's areas of research include pattern recognition, data mining, and multimedia content analysis. His research is funded by National Science Foundation, State of Michigan, and Industries (e.g., APB Investment, Ford Motor Company). He has published over 100 technical articles in premium journals and conferences in related fields, e.g., TMM, TPAMI, TKDE, TNN, TVCG, TC, IEEE CVPR, IEEE InfoVis, ACM MM and WWW, and received over 1,500 citations until now. He was an associate editor of IEEE Transactions on Neural Networks (2008-2011) and Pattern Analysis and Applications (2007-2010), and served in

many conference program committees and US National Science Foundation panels. He also served as senior research consultant in Baidu Inc. and Ford Motor Company, and has given over twenty keynotes or invited talks in various institutes.

**Keynote 2**

**Agent-Oriented Collective Decision Making**

Presenter: Dr. Oscar Lin
Professor and Chair
School of Computing and Information Systems
Athabasca University, Canada

*Abstract:*
Agent-oriented modeling is a new conceptual model for developing software systems that are open, intelligent, and adaptive. Agents are ideally suited for modeling real people or organizations– they are active and social, similar to the way people are. A multi-agent system (MAS) is well suited to domains where virtual entities, called agents, are self-directed and can actively pursue their goals within an environment that they can interact with, including interactions with other agents that are also in pursuit of their own goals. Through monitoring, communication, and coordination, MAS technologies not only address real-world problems in a human-like way but to transcend human performance. This has had a transformative impact on many application domains, such as e-commerce, logistics, manufacturing, robotics, entertainment, e-learning, and health-care.

This talk presents what my research team has done over the past several years and what we are doing now applying agent-oriented modeling approaches to solve collective decision-making problems e.g. Resource Management and Well Scheduling in oil and gas industry, Multi-user Social Educational Games, and Course-offering Determination of academic programs.

*Bio:*
Dr. Fuhua (Oscar) Lin is a Professor and Chair of School of Computing and Information Systems, Faculty of Science and Technology of Athabasca University, Canada. Dr. Lin obtained his PhD from Virtual Reality Lab at Hong Kong University of Science and Technology (Hong Kong) in 1998. Prior to working in Athabasca University, Dr. Lin was a Research Officer of Institute for Information Technology of National Research Council (NRC) of Canada. Dr. Lin did post-doc research at University of Calgary during 1998-1999. Since 1986, Dr. Lin has been conducting research in Intelligent Systems, Multi-Agent Systems, Virtual Reality, and their applications. Dr. Lin has more than 90 publications, including edited books, journal papers, book chapters, conference papers, and reviews. He has been invited to provide more than twenty invited keynotes/lectures/seminars at

different academic institutions and international conferences. Furthermore, he has acted as principal and co-principal investigator on more than 12 funded research including two NSERC Discovery Grants, two NSERC Engage grants, one grant from CFI of Canada, others funding from Athabasca University. He served as the Editor-in-Chief of International Journal of Distance Education Technologies during 2011-2013. Dr. Lin is leading a research group --- Intelligent Enterprise and Educational Systems Research Group at Athabasca University. His current main research interest is in collective decision-making, using the multi-agent systems (MAS) approach, multiagent learning, and complex systems modeling.

**Panel**

**New Issues and Challenges for Information Science and Control Engineering in the Big Data Era**

Panelists:
Qun Jin, Waseda University, Japan (Moderator)
Ming Dong, Wayne State University, USA
Shaozi Li, Xiamen Unierversity, China
Fuhua Oscar Lin, Athabasca University, Canada
Julong Pan, China Jiliang University, China

*Abstract:*
In this panel, the panelists will highlight emerging issues and challenges for Information Science and Control Engineering in the Big Data Era, present their views on potential solutions and key technologies to tackle these issues, and discuss promising integrated approaches from the perspectives of their different fields. Topics, such as Ubiquitous Computing, Human-Centric Computing, Social Computing, Cyber-Physical Systems, Internet of Things, Smart City, Mobile Internet, and Big Data, will be covered.

*Short Bio:*

Qun Jin is a professor and the chair in 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. His recent research interests cover human-centric ubiquitous computing, human-computer interaction, behavior and cognitive informatics, big data, personal analytics and individual modeling, MOOCs and learning analytics, and computing for well-being. He is a member of IEEE, IEEE CS and ACM, USA, IEICE, IPSJ and JSAI, Japan, and CCF, China. Contact him at jin@waseda.jp.

# Conference Schedule

| | Time | Beethoven Room<br><br>贝多芬会议厅 | Vienna Hotel<br><br>维也纳酒店（上海松江店） |
|---|---|---|---|
| 2015-04-24 | 09:00-17:20 | | Registration |
| 2015-04-25 | 09:00-17:20 | | Registration |
| | 09:00-09:25 | Opening Remarks | |
| | 09:25-10:10 | Keynote 1 by Prof. Ming Dong | |
| | 10:10-10:30 | Coffee break | |
| | 10:30-11:15 | Keynote 2 by Prof. Oscar Lin | |
| | 11:15-12:00 | Panel (Moderator: by Prof. Qun Jin) | |
| | 12:00-13:20 | Lunch | |
| | 13:40-15:20 | Oral Session 1 | |
| | 15:20-15:40 | Coffee break | |
| | 15:40-17:20 | Oral Session 2 | |
| | 18:00-19:30 | Banquet | |
| 2015-04-26 | 09:00-17:20 | | Registration |
| | 09:00-10:20 | Oral Session 3 | |
| | 10:20-10:40 | Coffee break | |
| | 10:40-12:00 | Oral Session 4 | |
| | 12:00-13:20 | Lunch | |
| | 13:40-15:20 | Poster Session 1 | |
| | 15:20-15:40 | Coffee break | |
| | 15:40-17:20 | Poster Session 2 | |
| | 17:30-19:30 | Banquet | |

**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): 25 minutes

Regular Oral Session: about 20 Minutes of Presentation, 5 Minutes of Q&A

Keynote Speech: 40 Minutes of Presentation, 5 Minutes of Q&A

**Poster Session**

Poster Session at Beethoven Room. The time at April 26, 2015 (13:40-17:20).

**Devices Provided by the Conference:**

Space and nails

**Materials Provided by the Presenters:**

90cm×60cm poster

**April 24, 2015**

**Registration 09:00-17:20**

**April 25, 2015**
**09:00—09:25 Opening Remarks**

**09:25-10:10 Keynote 1**
Big Data Analytics through Efficient Modeling and Visualization
Prof. Ming Dong

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

**10:30-11:15 Keynote 2**
Agent-Oriented Collective Decision Making
Prof. Oscar Lin

**11:15-12:00 Panel**
New Issues and Challenges for Information Science and Control Engineering in the Big Data Era
Panelists:
Prof. Qun Jin, Waseda University, Japan (Moderator)
Prof. Ming Dong, Wayne State University, USA
Prof. Shaozi Li, Xiamen Unierversity, China
Prof. Fuhua Oscar Lin, Athabasca University, Canada
Prof. Julong Pan, China Jiliang University, China

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

**13:40-15:20 Oral Session 1**
**Session Chair: Yun Cheng, Hunan University of Humanities, Science and Technology, China**

| | |
|---|---|
| IHAR: An Improved Hotspot-Based Adaptive Routing for Delay-Tolerant Mobile Sensor Network | Yunmiao Sun, Feng Lin, Jiliu Zhou, Peng Huang |
| A Value Engineering Based Method of Configuring ICT-based Customer Service Centers | Larry Jung-Hsing Lee, Jun-Der Leu*, Yi-Wei Huang |
| Sparse Representation Based Distributed Multisensor Track Fusion | Wang Huan, Sun Jinping |
| Multi-Valued Neural Network Trained by Differential Evolution for Synthesizing Multiple-Valued Functions | Huiqin Chen, Sheng Li, Qian Shi, Dongmei Shen, Shangce Gao |
| Application of fuzzy situational analysis for IT-professionals labor market management | Masuma H. Mammadova, Zarifa Q. Jabrayilova, Faig R. Mammadzada |
| A Novel Particle Swarm Optimization Algorithm with Intelligent Weighting Mechanism | Cong Hao, Youqing Wang, Jianyong Tuo |

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

**15:40-17:20 Oral Session 2**
**Session Chair: Chih-Keng Chen, Dayeh University, Taiwan**

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|---|---|
| Towards development of reliable mobile robot navigation system | Denis Shepelev, Andrey Ustyuzhanin |
| Implementation of Enterprise Resource Planning Using the Value Engineering and System Dynamics Methods | Larry Jung-Hsing Lee, Jun-Der Leu*, Yi-Wei Huang |
| Interpretation algorithm for active electromagnetic monitoring data within double-rank hierarchical model of geological environment | Khachay Oleg Yurievich |
| Indoor location position based on Bluetooth Signal Strength | Mohamed Er Rida, Fuqiang Liu, Yassine Jadi, Amgad Ali Abdullah Algawhari ,Ahmed Askourih |
| Modeling and Model Predictive Control for a Bicycle-Rider System | Chih-Keng Chen, Trung-Dung Chu |
| Smart Bus Station-Passenger Information System | Cemil SUNGUR, Ismail BABAOGLU, Aysegul SUNGUR |

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

**April 26, 2015**
**09:00-10:20 Oral Session 3**
**Session Chair: Denis Shepelev, Moscow Institute of Physics and Technology, Russia**

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|---|---|
| Integrating Various Data Sources of Geospatial Information Systems with Semantics | Chih-Hao Liu, Jeng-Fen Bau,, Chung-Rui Lee |
| SAFEBOX: A Verified Microkernel Based on Spatial-Temporal Isolation | Fan Zhang, Weining Su, Tianfang Wang, Xiaopeng Wang |
| A method for the trajectory privacy protection based on thesegmented faketrajectoryunder road networks | Jiazhu Dai,Liang Hua |
| Matching of Feature Points for Moneynote Fragment Assembly | Chih-Ying Gwo, Chia-Hung Wei, An-Wen Deng |
| The application of SOM network to particle tracking velocimetry in a wind-blown sand flow | Liqun Ji, Fusheng Yang, Min Guan |

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

**10:40-12:00 Oral Session 4**
**Session Chair: Jun-Der Leu, National Central University, Taiwan**

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|---|---|
| The Design of Training Elevators for Effective Learning | Murat Selek, Hakan Terzioglu, Fatih Alpaslan Kazan |
| The Irrigation System Fed from Biaxial PV Panels | Hakan Terzioglu, Fatih Alpaslan Kazan, |

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|---|---|
| | Cemil Sungur |
| A New Approach to The Installation of Solar Panels | Hakan Terzioglu, Fatih Alpaslan Kazan, Mustafa Arslan |
| The Design of a Test & Development Board for the Training of PIC18F4550 Microcontroller | Fatih Alpaslan Kazan, Hakan Terzioglu, Abdullah Cem Agacayak |
| The Designing of an Educational Solar Panel That Can Be Controlled in Different Ways | Hakan Terzioglu, Fatih Alpaslan Kazan, Murat Selek |

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

**13:40-15:20 Poster Session 1**

| | |
|---|---|
| Routing Protocols Analysis for Internet of Things | Hua-Mei Xin, Kun Yang |
| A robust instantaneous frequency rate estimator based on cubic phase function | Po Li, De-Chun Wang, Li-Ping Xu |
| Finding Optimum Settings for a 433MHz Radio forLong Range Communication | Guohua Yang, Kui Zhang, Nirvana Meratnia, Paul J.M. Havinga |
| Controllable Network Architecture Based On SDN | Luan Mousheng,Tang Yong, Zhao Qiang, Wang Wenyong |
| Quantile Regression Based on Laplacian Manifold Regularization | Ying Zhang |
| A Novel Survivable Scheme for OFDM-PON Based on Ring Topology | Yue Fei, Shibao Wu, Faze Hu, Liangliang Peng |
| Study On a New and High Efficient OPGW Melting Ice Scheme | Lei Yuqing, Chen Xi, Lv Chen,Wang Yang, Hou Baosu |
| Design and Performance Evaluation of Robust Digital Audio Watermarking Under Low Bits Rates | Delong Cui, Yunfeng Gong, Mei Liu |
| An algorithm of Image Matching Based on Mahalanobis Distance and Weighted KNN Graph | Du bo,Zhangguan-liang,Cuixiao-long |
| A low cost anti-aliasing scheme for mobile devices | DaoLu Zha, Xi Jin, An Wu, Tian Xiang, XueLiang Du |
| MaxMin: An unbiased outlier detection method | YAN Li-rong, WU Yi-bo |
| Efficient Router Architecture, Design and Performance Exploration for Many-core Hybrid Photonic Network-on-Chip (2D-PHENIC) | Achraf Ben Ahmed, Michael Meyer, Yuichi Okuyama, Abderazek Ben Abdallah |
| Optimized Context quantization for I-ary source | Min Chen, Jie Xue |
| LvFS: a Lightweight File Versioning Tool for General Binary Files | Mingrong Mao, Jiaxiang Zhou |
| Modeling and Analysis of Information Theft Trojan Based on Stochastic Game Nets | Min Yu, Chao Liu, Xinliang Qiu, Shuang Zhao, Kunying Liu, Bo Hu |

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|---|---|
| Acquiring an Optimal Retail Chain Location in China | Horng-Jinh Chang ,Chih-Ming Hsieh and Feng-Mei Yang |
| Managing Identities in Cloud Computing Environments | Xiaoqi Ma |
| Research on Latency of Vertical Handoff using MSCTP and MSIP | Li Chuanyang, Zhang Jun, Han Hui, Qian Linjie |
| QOF: QoS Framework Based On OpenFlow | Yongtao Zhang, Yong Tang1,Dingyong Tang, Wenyong Wang |
| A RNN Queries Algorithm for Moving Objects Based on ASGI | Zewen Cao, Shiwei Zhao |
| Automatic Military One-point Located Symbols Placement Based on the Genetic Algorithm | Zewen Cao, Shiwei Zhao, Yao ZHOU, Wenkai Chen |
| EMF Based Validation Methods of the Static Semantics of Models | Li Haibing,Zhu Ning,Lei Yonglin,Li Xiaobo,Zhu Yifan |
| OSIA: Open Source Intelligence Analysis System based on Cloud Computing and Domestic Platform | Shiwei Zhao, Zewen Cao, Wensen Liu |
| Research on the Buffer Management Algorithm in DTN | Fengju Liu,Xiangyu Bai |
| Multi-source heterogeneous data exchange system for cloud services platform based on SaaS | Binyong Li,Linfu Sun,Ran Tian |
| A Study on Agglomeration Effect of Beijing Cultural and Creative Industry | Enjun Xia , Pengfei Sang |
| A Novel Parallel Algorithm for Frequent Itemset Mining of Incremental Dataset | Lijun Xu,Zhang Yun |
| Framework Building and Application of the Performance Evaluation in Marine Logistics Information Platform in Taiwan | Rong-Tsu Wang, Chin-Tsu Chen |
| Combining syntactic information with HMM for term extraction | Hua-Shan Pan,Ji-Yuan Zhao |
| Moving Target Detection Algorithm Based on Susan Edge Detection and Frame Difference | Xinfeng Fan,Yuanzeng Cheng,Qiang Fu |
| UBackup-II: A QoS-Aware Anonymous Multi-Cloud Storage System | Kai Guo, Pengyan Shen, Mingzhong Xiao, Quanqing Xu |
| Fabric Pilling Object Detection Based on Scale - Space Extremum | Xu Zengbo, Yang Hongsui |
| Algorithms for Computing Zernike Moments and Image Reconstruction in Parallel Process | An-Wen Deng, Chia-Hung Wei, Chih-Ying Gwo |
| A Framework of Breast Density Estimation System for Breast Magnetic Resonance Images | Chia-Hung Wei, Chih-Ying Gwo, Yue Li |
| Asynchronous Challenge-Response Authentication Solution based on Smart Card in Cloud Environment | Guifen Zhao, Ying Li, Liping Du, Xin Zhao |

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| Exploration on the application of distance education in the law teaching in Institutions of Higher Learning | Rongxia Zhang,Weisheng Wang |
| Fault Diagnosis based on Wavelet Entropy Feature Extraction and Information Fusion | MOHAMMADREZA VAZIFEH; FARZANEH ABBASI HOSSEINABADI |
| New Word Recognition Based On Support Vector Machines and Constraints | Xu Yuanfang |
| Estimating nitrogen content of corn based on wavelet energy coefficient and BP neural network | Lina Xiu,Hui Zhang,Qiaozhen Guo,Zhiheng Wang,Xiangnan Liu |
| Research On Hierarchical Routing Algorithm Of Wireless Sensor Networks | Jianfeng Jiang |
| The Network Capacity Issues on Designing Routing Protocol of Vehicular Ad hoc Network | Fang-Yong Tan,Li Zhou |
| Model driven software architecture evolution information capture | zhong linhui |
| Dual-Routing with Multiple Radios Handoff in 80211 Wireless Networks | Ruoyu Mao, Xiangning Chen, Yun Ge, Ying Chen |
| Inspiration of traditional Ash-bashing pictures to image design of two-dimensional Animation | zhangrong |
| An effective strategy for improving small file problem in distributed file system | Shihong Yao, Zhengquan Xu, Lian Xiong, Xin Gu, Xiping Yang |
| A recommendation system combining LDA and collaborative filtering method for Scenic Spot | Shengli Xie,Yifan Feng |
| Defense of WPA/WPA2-PSK Brute Forcer | Yonglei Liu |
| Search Results Clustering Algorithm based on the Suffix Tree | Dengwei Wang, Libo Liu, Jing Dong, Jiao Zheng |
| The Design Strategy of Component Method in Three-tier Architecture | Baolin Xu,Shiming Wan |
| Memory prefetcher design based on the SESC simulator | Liu Fang, Zhang Shengbing, Zhao Lei, Zhang Meng |
| Watershed segmentation Algorithm Based on Morphological Gradient Reconstruction | Baoan Han |
| Research of fast FCM vehicle image segmenting algorithm based on space constraint | Bin Zhou, Tuo Wang, Shi-Juan Pan |
| The Research of Data Mining Analysis System Based on Pearson relation | zhang hanyun,hu shunfang |
| Memory Coherency Based CPU-Cache-FPGA Acceleration Architecture for Cloud Computing | Hao Yang, Xiaolang Yan |
| Research on Data Security Access Model of Cloud Computing Platform | Yangqing Zhu,Jun Zuo |
| Research and Implementation of 3D Reconstruction Technique Based on Images | Wei Qun, Xu Zhaohe, Wang Jue |

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| Task-constrained RBAC model and its Privilege Redundancy Analysis | Yanjie zhou, Li Ma, Min Wen |
| New Results on The Hardness of ElGamal And RSA Bits Basing on Binary Expansions | ZHENG-QI KANG, KE-WEI LV |
| Research on a Software Fault Injection Model Based on Program Mutation | Luo Yin, YAO Ri-huang, BIN Jian-wei, YANG Chun-hui |
| The Database Platform Design of Collection and Citation | Xiaodan Wang, Yongmei Tian, Lei Sun, Guang Yu |
| Intelligent Text Mining Based Financial Risk Early Warning System | Keqin Wang, Qikun Wu, Hongyu Mao, Mubing Zhou, Kuan Jiang, Xuepei Zhu, Lin Yang, Ting Wang, Huaiqing Wang |
| Study on the Characteristics of Network Traffic based on STFT | Liu Liang, Jiang Han-hong, Rui Wan-zhi, Wang Jie |
| Optimization of a Switched Ethernet Topology based on Genetic Algorithm | Liu Liang, Jiang Han-hong, Rui Wan-zhi, Wang Jie |
| Parallel Test Sheets Generation using Differential Evolution Algorithm with Constraint Effective Encoding and Either-Or Mutation | Fengrui WANG,Wenhong WANG,Tianmin FENG,Huanqin LI |
| Extracting anthropometric parameters from a scanned 3D-head-model | Xuejie Liu, Xiaoli Zhong |
| An active real-time system for oil spill detection and information distribution | Zhinong Zhong, Ning Jing, Y.Gao, M.N.Jha, A. S. Kassab, H. Assilzadeh |
| A Novel Method for Verification of Composite Web Services | Xiaobing Wang, Sijiang Yu |
| Analysis of Mobile Opportunistic Commerce Value Chain | Li Pucong, Zhong Yuansheng, Zhu Wenqiang |
| The study of counterfeit classification method based on image features | Lvping Chen,Bo Cui,Tiewei Fu,Yihong Guan,Yanyan Wang |
| Two-Dimensional Fuzzy Clustering Algorithm (2DFCM) for Metallographic Image Segmentation Based on Spatial Information | Lvping Chen,Yu Han,Bo Cui,Yihong Guan,Yatao Luo |
| Secure Outsourcing of Composite Modular Exponentiation | Bo Yang |
| One Robust Time Synchronization based on Time-average and Maximum-likelihood Estimation for WSN | Ni Zeyu, Liu Wenqin |
| A Novel Algorithm for Embedding Dynamic Virtual Network Request | Ying Yuan, Cuirong Wang, Cong Wang, Bin Zhang, Shimin Zhu, Na Zhu |
| Bilateral local binary patterns for rotation invariant texture retrieval | Zhang Jiuwen,Mingang Zhou,Runpu Zhang |

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|---|---|
| Topology Characters of the Linux Call Graph | Yu-fang WANG, De-wu DING |
| A private cloud instances placement algorithm based on maximal flow algorithm | Jian Guo, Kun Qian, Dongxu Han, Gongxuan Zhang |
| An Improved Genetic Algorithm for Flexible Job Shop Scheduling Problem | Jiang Liangxiao??Du Zhongjun |
| Use of 3D Visualisation Tools for Representing Urban Greenspace Spatial Planning | Chen Wang, David Miller, Yang Jiang, Gillian Donaldson-Selby |
| LDA BASED ON PCNN FOR GAUSSIAN NOISY FACE RECOGNITION | He Guan-nan,Li Ze-hua,Sun Fei-fei,Nie Ren-can,Ding Hong-wei |
| A Provenance Storage Method Based On Parallel Database | Zhuo Wang, Yao Xu,Bo Suo1,Zhong Wang |
| Query Processing based on Associated Semantic Context Inference | Yuangang YAO, Jin YI, Yanzhao LIU, Xianghui ZHAO, Chenghao SUN |
| Explore of The Electricity Information Acquisition System¡¯s Clock Synchronization Method | Cen Wei, Sun Zhi-qiang, Zhai Feng, Li Bao-feng, Yuan Quan |
| Application Performance Analysis of Distributed File Systems under Cloud Computing Environment | Tiezhu Zhao,Zusheng Zhang,Xin Ao |
| Self-Adaptive Threshold Based on Differential Evolution for Image Segmentation | Peng Guo, Naixiang Li |
| a Multi-Level Dynamic Access Control Model and Its Formalization | Yanjie zhou, Li Ma, Min Wen |
| Accelerating Vector Based Spatial Analysis by Optimizing Data Transfers | Shulin Cui,Shuqing Zhang,Jun Zhang |
| Opinion Evolution Model Based on the Node Influence on the Internet | Huijie XU, Wandong CAI, Guirong CHEN |
| Image Adaptive Reconstruction Based on Compressive Sensing and the Genetic Algorithm via ROMP | Lin Zhang, Xialing Zeng |
| Application of PC Cluster Based on MPI2 in Ions Trajectory Simulation | Qinchun Xie, Yongquan Lu, Yong Liu, Dayu Yin |
| Algorithms and Implementation of Long Euclidean-Geometry LDPC Codes for Space Communications | Mingxiao Ma, Junshe An |
| Application of conditioned level-set method to OH-PLIF image processing of typical molecule diffusion flames | Yue Han, Nanjia Yu, Jian Dai, Guobiao Cai |
| Sensing Network Element Ontology Description Model for Internet of Things | XingchaoWang,Hongping An,Yongyue Xu,Sijun Wang |
| A Parallel Algorithm to Construct BISTs on Parity Cubes | Yan Wang, Jianxi Fan, Wenjun Liu, Yuejuan Han |
| A Heterogeneity Based Heuristic Algorithm for Scheduling Out-Tree Task Graphs | Jianjun Zhang, Dan Mei, Meini Yang |
| Real Time Face detection System Using Adaboost and Haar-like Features | Jie Zhu, Zhiqian Chen |

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| Credit Risk Analysis Using Sparse Non-negative Matrix Factorizations | Hao Sun, Zhiqian Chen, James Chen |
| Noise Reduction of Web Pages via Feature Analysis | Kun Jiang, Yuexiang Yang |
| Research on Semantic Query Expansion with Temporal Information | Wangzhe,JiangShan |
| Goal-oriented Service Refinement based on Dynamic Planning | shi yinxue, sun ruizhi |
| Ranking User Tags in Micro-blogging Website | Xiang Wang, Yan Jia , Ruhua Chen, Bin Zhou |
| A Modified Octagon-based Search Algorithm for Fast Block Motion Estimation | Yuming Wu,Yun Cheng*, Siwen Deng, Wenwen Chen |

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

**15:40-17:20 Poster Session 2**

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| Design and Implementation of AES based on ARM920T Processor | Yuehua Zhang, Jian Zhang, Guannan Liu |
| A Novel Image Encryption Algorithm Based on Lifting-based Wavelet Transform | Jinglong Zuo, Delong Cui, Yunfeng Gong, Mei Liu |
| Evolutionary Game Theory Based Network Selection for Constrained Heterogeneous Networks | Nannan Sui, Dongmei Zhang, Wei Zhong, Lianguo Wu, Zhensong Zhang |
| Chaos control and projective synchronization of a fractional-order financial system | Maosong Yang,Duan Dong,Shaojuan Ma |
| Situation Assessment Approach Based on a Hierarchic Multi-timescale Baysian Network | Chen Li, Mingyuan Cao, Lihua Tian |
| An Optimized BCI System based on P300 and Visual Mismatch Negativity | An Optimized BCI System based on P300, Visual Mismatch Negativity |
| Intelligent Dimming LED for Moonlight Simulation | Shuai Han, Xiao Zhong, Yifeng Ding, Wei Li, Song Liu, Peng Liu |
| Arterial Traffic Two-direction Green Wave Coordination Control Based on MATLAB Graphical Method | Lin Guo, Renfa Yang, Minjie Zhang |
| State Constraint Controller Design for Turbine Main Steam Valve Based on Modified Adaptive Backstepping Method | SUN Liying, Liu Meng, Cai Jingwen |
| Direct Fuzzy Backstepping Control for Turbine Main Steam Valve of Multi-machine Power System | CAI Jingwen, SUN Liying |
| Quantum codes derived from two construction methods | Lu Huimin,Dong Xuedong,Liu Zhenxing |
| Chronic Disease Management System Design Based on Cloud Storage Architecture | Yishuan.Huang, Faling.Yi |
| A RFID-Based Dynamic Positioning Scheme with | Mengna Xie, Mei Wang, Zhenghong |

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| MATLAB GUI | Liu |
| Comprehensive Analysis on Calculation Iterative Methods for Natural River and Open Channel Water Curve | LI Zhansong,ZHU Shijiang,LIN Qingjia,FAN Ruqin |
| The designing of indoor local ization system based on self-organized WSN using PulsON UWB sensors | Wang yan, Zhao jing, Zhang nailong |
| Data architecture for the next-generation power grid: concept, framework, and use case | Shutang You, Lin Zhu, Yong Liu, Mallikarjun Shankar, Russell Robertson, Tom King, Yilu Liu |
| Design of A Novel Ultra Wide Band Balance MicrostripBalun | Zhongpu Li,Jinxian Liu |
| Combat Capability Assessment Approach of Strategic Missile Systems based on Evidential Reasoning | Ji-Li LUO, Meng-Jun LI, Jiang JIANG, Han-Lin YOU, Fang-Zhou CHEN, Yin-Ye LI |
| Decay Estimate of Global Solution for some Nonlinear Wave Equation | Fen Wang, Hao Zhou, Min-le Shangguan |
| Optimal Control of Initiative Anti-Interception Penetration Using Multistage hp-adaptive Radau Pseudospectral Method | Wang Fang, Cui Naigang |
| Neural-network decoupled sliding-mode control for inverted pendulum system with unknown input saturation | Tang Xiaoqing, Chen Qiang |
| An Empirical Study of Reducing DMSMS Problem on Supply Chain Management Repair | Luo She-Juang, Lee De-Chih, Tsai Yuan-Cheng, Mao Ko-Min, Shen Lin |
| An Image Segmentation method by combining Fuzzy C-means clustering and Graph cuts optimization for Multiphase level set algorithms | Mantun Gao, Sanmin Wang, Shuxia Wang |
| Multi-Core FPGA Execution for Electromagnetic Simulation by FDTD | Kiyoshi hayakawa, Ryusuke Yamano |
| Direction Finding for Conformal Array in the Presence of Array Perturbations | Chao Liu, Shunian Yin |
| Research on Software Automatic Simulation Testing System of Electronic Scale | Zhikai Zhang, Jian Wu |
| Research of Transient Voltage Disturbance Moments Detection Method Based on Discrete Orthonormal S-transform | Hehong Guo, Qingsheng Zhao, Yu Wang, Xuejun Zhang |
| Study on Quality standards of Os Draconis | Dong Min, Song Xiang,Yun-lan Li,Jiali Zhang,Hongyan Zhou,and Qing-shan Li |
| Experimental Research on Discharge Characteristics and Altitude Corrections for Typical Long Air Gaps at High Altitude Area | Nan Jing, Huo Feng, Xie Liang, Xu Tao, Hu Wei,Luo Xiaoqing, Ye Qiming |
| Design of G.SHDSL Signal Reconfigurable System Based | Yang Yuan , Yuehui Tan |

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| on FPGA | |
| Spectrum Sensing Algorithm Based on Estimated Covariance Matrix MME Detection | ShaolinYao,ZhengBaoZhang |
| The Effect of Metal Frame Structure on EM Scattering Characteristics of Radome | Yu Wang, Feng Xing, Qikun Liu, Daojie Yu |
| EM Scattering Analysis of Cylinder Array Using Iterative T-matrix Theory | Qikun Liu, Dongfang Zhou, Feng Xing, Zhaowei Xing, Yu Wang, Hui Zhou, Zhen Tu |
| An Inductorless Chua's Circuit with Memristor | Pao-Lung Chen |
| Accelerating Monte Carlo Simulation of Neutron Transport on the Intel MIC architecture | Xiantao Cui, Jie Liu, Lihua Chi, Qinglin Wang |
| The Optimization and Implementation of Iptables Rules Set on linux | Pei-fei Wu |
| Adaptive Stability Control of the Robot Based on Extended State Observer | Peng Su, Yang Yang, Long Huang,, Leiyu Zhang |
| Application of Kalman Filter Method Based on Excavation Depth and Time Factor in the Building Deformation Forecast | Fumin Lu, Tingyao Jiang |
| Measuring the network efficiency and the component importance for multiclass transportation network | YU Xiao-Jun,WANG Shuang |
| The Simulation and Practice of High-performance Non-contact Stabilized Voltage Power Supply | Jinlong Tu, Kai Hu |
| A Linear Programming Model for Aeration Management of Stored Grain | Ling Sun, Zesheng Zhu |
| A Management System Based on Graphical Variable for Stored Grain Protection | Ling Sun, Zesheng Zhu |
| Fuzzy Neural Network Control of The Garbage Incinerator | Yu Xiao-hong,Yang Zhu-zhong,Yang Tao |
| Research on Feedforward Parameter Optimization of Linear Servo System based on Iterative Learning of Orthogonal Projection | Yang liangliang;SHI weimin;Peng laihu |
| Research on Bicycle Built-in Pump Device Based on ADAMS | YU Yuan, DING Hai, LUAN TianYu, LUAN Guo Qiang |
| Gene Regulation Network Modeling via Improved Multi-Agent System and Dynamic Bayesian Network | Wei Zhou,Yingfei Sun |
| DEA Model for Effectiveness Evaluation of Risk Assessment Methods | Hengfeng Luo, Ruiqi Liu, Yingkai Wang |
| License Plate Classification from a Binarization Perspective | Jia Sheng, Zhongyan Liang, Sanyuan Zhang, Xiuzi Ye |
| Energy-saving Assessment Method Based on Matter-element Model for Highway Tunnel Illumination Technology | Chengzan Chu, Zhengpeng Fang, Ziyu Zhang |
| The influence of threaded coupling on rotor system with | Li Lingxuan, Ma Yuanyuan |

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| rubbing failure | |
| Analytical Calculation of Air-Gap Magnetic Field of the Trapezoidal Surface Permanent Magnet Machine | Zhou Yu, Li Huaishu, Huang Kefeng |
| Low Power Interactive Operating System and SCADA Based Universal Wireless Gateway For Automation Using Cloud Technology | Abhinandan Kelgere Ramesh, Manas Agarwal |
| Computation of Electric Field of Overhead Lines with a Nearby Building based on Surface Charge Method with Planer Triangle Element | Yuze Jiang, Zhenguang Liang, Fei Guo, Huaming Cao, Kai Zhang, Xiaoning Wang, Xiaohui Wang |
| Calculation of Power Frequency Electric Field under Overhead Lines with Sloping Ground by Conformal Mapping | Yuze Jiang, Gang Li, Zhenguang Liang, Fei Guo |
| A Multi-Polynomial LFSR Based BIST Pattern Generator for Pseudorandom Testing | Haoqi Ren, Zhenya Xiong |
| MOPSO Based Multi-objective Trajectory Planning for Robot Manipulators | ZhihaoXu, Sheng Li, Qingwei Chen, Baolin Hou |
| One multi-constraint QoS routing algorithm CGEA based on ant colony system | Benlai Liang, Jiangde Yu; |
| Research on Combat SD Model based on OODA Loop | Gao Dapeng, Huang Jianming, Yuhu, Xu Guoqian, Zhang Nainiang |
| Research on Tactical Internet Battlefield Environment Modeling Based on OPNET | Gao Dapeng, Yuhu, Song Guangshou, Chuqin, Xubin |
| A Hardware Structure of HEVC Intra Prediction | Ningmei Yu,Jianghan Nan,Dongfang Wang |
| Effect of Probe Coupling on Near-Field Imaging Simulation | Du liuge, Liu Wei, Chang Qinggong, Wang Yahai |
| Sliding Mode MRAS Speed Sensorless Vector Control for Submersible Motor | Shan Bai, He Wang |
| Discussion on Psychological Perception Representation and Knowledge Acquisition of Table Tennis Players | Xinhe Gong,Peiliang Ling,Xianming Meng |
| Technological Transformation Investment Prediction of Primary Equipment of Substation Based on Assets Wall | LI Mingjun, CHEN Xing, SONG Yiqun, YANG Jingfei, GAN Tuanjie, WEN Jianzhong, PEI Yunjun |
| Nonlinear Dynamics Recognition in Solar Time Series Based on Recurrence Plot Techniques | Linhua Deng |
| A Wheelchair Robot Design with Wheel-Track Coupling Mechanism and Motion Analysis | Yang Bai, Xueshan Gao, Dongxiao Wang,Ling Li,Yitong Ma,Weijie Bo,Jingyi Li |
| Fiber Grating Measurement of Temperature of GIS Bus Conductor | PENG Yun-feng |
| Enterprise Performance Multilevel Fuzzy Comprehensive Evaluation Model from Value Chain Perspective | Wang Xinli |
| A Novel Vertical Handoff Algorithm for UMTS and WiMAX | Xiaolong Ji,Jing Zhang,Sulei Zhu |

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| Heterogeneous Overlay Networks | |
| Dynamic inversion approach study of UAV lateral control under model mismatch | Tou Kahou, Yang Jianying |
| Multi-Relay Selection in Decode-and-Forward Cooperative Network Based on Genetic Algorithm | Xiaolong Dai, Jing Zhang, Qian Zhang |
| Research on Two-Resistor Model and Thermal Simulation Method of the Power Chip in Automotive Electronic Control Units | Qi Lai, Linhui Zhao, Yongchen Ning |
| The development of evaluation system for ocean environment monitoring data analysis | Xiaohui Gao,Xiangyu Zhao,Xiaohui Tian |
| Building A 3D Visualization System For The Geological Survey | Xiangyu Yu, YiXian Xu |
| Optimal Reconfiguration Control of Electromagnetic Spacecraft Formation Using Gauss Pseudospectral Method | Xu Zengwen, Shi Peng, Zhao Yushan |
| A Formal Transformation Approach of MARTE model | Xu Haiyang, Zhuang Yi |
| Research on the Dual Antennas System for Directional Transmitting | Chen Xiaojing, Haiyang Fu, Honglei Zhang |
| A DOA Estimation Method in TD-SCDMA System | Chunyuan Zheng, Haiyang Fu, Xiaojing Chen |
| Monitoring Method of Machining Error of Long and Thin Cylinder in Boring Process | Xinping Xu, Tao Tao, Gedong Jiang, Lei Liu |
| Torque Ripple Reduction for Permanent Magnet Synchronous Motor Based on Learning Control | Hai Shang, Linhui Zhao, Tong Wang |
| The design and realization of the Taekwondo real-time hit effect and feedback system | Liu Peng, Zhong Yaping |
| Realization of the Receiver with Dual Antennas by Base-band signal Processing | Honglei Zhang, Haiyang Fu, Chunyuan Zheng, Zhijiao Shang |
| Transient Position Recognition of Roller Coaster Based on the Detected Motion Signal Characteristics | Zhao Liu, Lei Wang, Bo Xie, Yutian Zhu |
| Instantaneous frequency rate estimation of multi-component LMF signals based on LPFT | Yu Bai, Lili Zhang |
| Image Adaptive Reconstruction Based on Compressive Sensing via CoSaMP | Lin Zhang |
| Coal Moisture Intelligent Modeling and Optimization Based on Resampling by Half-Mean | Li Xiaolin,Li Xiaobin,Wang Jianhua, Jin Minglin |
| A DST hardware structure of HEVC | Jianghan Nan,Ningmei Yu,Wei Lu,Dongfang Wang |
| The propagation behavior prediction of Tibetan network public opinion based on cloud model | Yingxing Li,Suduo Li |
| Nonlinear Modeling and Analysis of Digital Hydraulic Cylinder | Jia Chen, Jifeng Xing, Xiaohua Zeng, Likun Peng |

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| ATN Addressing and Communication Link Handoff Based on Location Information | Changqing Gong, Junsheng Diao, Haibo Ye |
| Operational Research for Helicopter with Dipping Sonar to Search Submarine | Yingchun Chen, Chunguang Ni, Xianhua Wang |
| Mobile Strategy of Sink nodes in Multilayer Mobile Sensor Network | Xialing Zeng |
| A Wheelchair Platform Controlled by A Multimodal Interface | Hongtao Wang, Ting Li, Fuwen Zheng,Yongyong Yan |
| Design and Analysis of Position/Force Control in Teleoperation Systems with Disturbances | Xia LIU;Yong CHEN |
| FPGA Implementations of Cube Neutral Key Bits analysis on Block Cipher EPCBC | ChunBo Ma,Lei Wei |
| A Decision Support System Framework for Scheme Design of Motor System Energy-Saving | Fang Yue; Xinjian Gu; Zheng Liu; Wenjun Yang; Chengyi Le |
| Modular Flexible Assembly System for Large-scale Structures | Peng Huang, Fang Yue |

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

**Contact Us**

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