**2013 IEEE International Conference on DASC/PICom/EmbeddedCom/ScalCom Program Overview**

**Saturday December 21st, 2013**

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<th>Emei Hall</th>
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<td>08:30-16:00</td>
<td>Registration (The Third Floor Lobby)</td>
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<td>09:30-09:50</td>
<td>Opening Ceremony (Minshan Hall, Chair: Prof. Xingang Liu)</td>
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<td>Keynote Speech I: Prof. Mohammad S. Obaidat (Minshan Hall, Chair: Prof. Geyong Min)</td>
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<td>Keynote Speech II: Prof. Rajkumar Buyya (Minshan Hall, Chair: Prof. Jinjun Chen)</td>
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<td>EmbeddedCom-02</td>
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<td>DASC-01</td>
<td>PICom-03</td>
<td>Keynote Speech IV: Prof. Jinjun Chen (Chair: Prof. Geyong Min)</td>
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<td>EmbeddedCom-04</td>
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# The IEEE DASC2013 Technical Program

## Sunday December 22\textsuperscript{nd}, 2013

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## DASC-01

1. Research on Big Data Architecture, Key Technologies and its Measures  
   *Xiaoquan Li*
2. Some Special Issues of Network Security Monitoring on Big Data Environments  
   *Lan Liu and Jun Lin*
3. A Trajectory Preserving Method Based on Semantic Anonymity Proxy  
   *Meng Li, Sheng Cao, and Zhiguang Qin*
4. ADS-B Data Authentication based on AH Protocol  
   *Ruidong Chen, Haomiao Yang, and Xiaosong Zhang*
5. Towards Implicitly Introspecting the Preinstalled Operating System with Local-Booting Virtualization Technology  
   *Yan Wen, Jinjing Zhao, Hua Chen, and Minhuan Huang*
6. Automatic Generation Method of Optimization Scheme for Orderly Power Utilization Based on Genetic Algorithm  
   *Jianjun Huang, Fulin Mu, and Qinglin Zuo*
7. The Research and Realization of Digital Power Line Interference Filter in Magnetotelluric  
   *Shuangchao Ge, Ming Deng, and Kai Chen*
8. Secure Distribution of Big Data Based on BitTorrent  
   *Limin Xiao, Chunjie Xu, Zhiyao Wang, Jingchao Qin, Guangjun Qin, Mingfa Zhu, Mingquan Li, Dongyu Tan, and Li Ruan*

## DASC-02

1. A Web Services Container Supporting QoS Hierarchical Control with Multiple Measurements for Utilization  
   *Zhe Wang, Dianfu Ma, and Yongwang Zhao*
2. Video Quality Assessment Metric Based on Spatio-Temporal Motion Information  
   *Kai Kang, Xingang Liu, and Chao Sun*
3. A Dynamic Detection Method to C/C++ Programs Memory Vulnerabilities Based on Pointer Analysis  
   *Rui Ma, Lingkui Chen, Changchen Hu, Jingfeng Xue and Xiaolin Zhao*
   *Dan Li and Lu Gan*
5. A Study of the Private Set Intersection Protocol Based on Negative Databases  
   *Dongdong Zhao and Wenjian Luo*
6. Workflow and Role Based Access Control Model for Cloud Manufacturing  
   *Xianhui Lin and Xiaomei Zhang*
7. A Key Exchange Scheme Based on Lattice  
   *Wulu Li*
1. Integrated Network Service to Enhance Multicast Communication  
   Yongkai Zhou, Pengze Guo, Zhi Xue, Jianhua Li, and Yi Yuan
2. An Approach to Selecting Services with Dynamic Prices for Temporal-aware Service Processes  
   Yanhua Du and Hong Li
3. A New Approach to Building a Multi-Tier Direct Access Knowledgebase For IDS/SIEM Systems  
   Amir Azodi, David Jaeger, Feng Cheng, and Christoph Meinel
4. Research on Improvement of Dynamic Load Balancing in MongoDB  
   Xiaolin Wang, Haopeng Chen, and Zhenhua Wang
5. Monte Carlo based Test Pattern Generation for Hardware Trojan Detection  
   Mingfu Xue, Aiqun Hu, Yi Huang, and Guoyue Li
6. AENS: Accurate and Efficient Mobile Phone Indoor Navigation System Without WiFi  
   Zhiyuan Xu, Ruijin Wang, and Yaodong Huang
7. Research on the Relationship Between the Effect of DPA and Differential Sample Frequency  
   Ruicong Ma, Daheng Yue, Shaoqing Li, and Jihua Chen
8. Workflow Management Systems Meet Model Drive Architecture  
   Chao Zhang, Ping Gu, and Yan Li
The IEEE PICom2013 Technical Program

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09:30-09:50 Opening Ceremony (Minshan Hall, Chair: Prof. Xingang Liu)
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15:30-15:45 Coffee Break (The Third Floor Lobby)
15:45-17:15 PICom-02 (Huanglong Hall)
18:00-20:30 Banquet (Minshan Hall)

PICom-01

1. The One-way Delay Measurement Algorithm Onto Time Synchronization of NTP
   Ruijie Ou, Wenyu Chen, Linli Guo, and Weishun Li
2. A New Method for License Plate Characters Recognition Based on Sliding Window Search
   Yingjia Bu and Mei Xie
3. An Improved Search Algorithm Based on Path Compression for Complex Network
   Ye Yuan, Wenyu Chen, Minyu Feng, and Hong Qu
4. Neural Signal Acquisition and Wireless Transmission System Design
   Ruoyuan Qu, Tong Li, Shengwei Xu, Fang Han, Li Zhang, Xinxia Cai, and Hua Dang
5. The Research of Building Multidimensional Multi-granularity Automatic Uncertain Knowledge System
   Based on Attributes Similarity
   Yanhong Zhang, Lingyu Xu, Jie Yu, Fei Zhong, and Yang Liu
6. Efficient Belief Propagation for Image Segmentation Based on an Adaptive MRF Model
   Shengjun Xu, Jiuqiang Han, Guanghui Liu, and Liang Zhao
7. Analysis and Design of Electronic Map Based on RFID and Google Maps
   Zhuangliang Wu, Wenhua Zeng, Lvqing Yang, Yue Li, and Meihong Wang

PICom-02

1. Gesture-based NUI Application for Real-time Path Modification
   Hongzhe Liu, Yulong Xi, Wei Song, Kyhyun Um, and Kyungueun Cho
2. Adaptive Airport Taxi Dispatch Algorithm based on PCA-WNN
   Ke Zhang, Supeng Leng, and Jingshan Duan
3. On Discovering Feasible Periodic Patterns in Large Database
   Qian Luo and Hua Yuan
4. ZG Control for Ship Course Tracking with Singularity Considered and Solved
   Yonghua Yin, Qing Xie, Ying Wang, Dechao Chen, and Yunong Zhang
5. An Improved Algorithm for Dynamic Cognitive Extraction Based on Fuzzy Rough Set
   Haitao Jia, Qian Tang, Mei Xie, and Wei Zhang
6. Combination of DM and OBDA for Ontology Generation from Relational Database
   Wenge Rong, Rifan Li, Hao Sheng, Yuanxin Ouyang, and Zhang Xiong
7. Moving Object’s Detect in a Monocular Moving Camera
   Yegang Chen
Sunday December 22nd, 2013

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PICom-03

1. Feature Quantity for Universal Receivers to Identify Protocols of Radio Services and Devices
   Manabu Sato, Yuki Mizutani, Yuusuke Kawakita, and Haruhisa Ichikawa
2. Convergence and Chaos of a Class of Discrete-time Background Neural Networks with Uniform Firing
   Min Wan, Yan Li, Desong Wang, Jinrong Hu, and Qian Luo
3. A Cloud-based Development Platform for Services and Bundles of Internet of Things
   Yingyi Yang, Fagui Liu, Jin Yang, Qi Duan, and Xiaoke Zhang
4. A Parallel Multi-Appliance Recognition for Smart Meter
   Lien-Chun Wang, Wei-Ting Cho, Yu-Sheng Chiu, and Chin-Feng Lai
5. High Quality with Low-Cost H.264/AVC Interframe Mode Decision Algorithm for Wireless Network
   Peicheng Wang and Xingang Liu
6. Spectrum Handoff Scheme for Prioritized Multimedia Services in Cognitive Radio Network with Fine Buffer
   Mao Li, Tiegang Jiang, and Liang Tong
7. Based on Improved ESPRIT Algorithm Radar Multi-Target Recognition
   Haitao Jia, Mei Xie, Taoliu Yang, and Wei Zhang

PICom-04

1. Twice-Pruning Aided WASD Neuronet of Bernoulli-Polynomial Type with Extension to Robust Classification
   Yunong Zhang, Dechao Chen, Long Jin, Ying Wang, and Feiheng Luo
2. Dynamic Perception Rule Acquisition for Incomplete Data
   Haitao Jia and Mei Xie
3. Dynamic Spectrum Sensing For Energy Harvesting Wireless Sensor
   Yuki Mizutani, Manabu Sato, Yuusuke Kawakita, and Haruhisa Ichikawa
4. Semi-supervised Dual Recurrent Neural Network for Sentiment Analysis
   Wenge Rong, Baolin Peng, Yuanxin Ouyang, and Zhang Xiong
5. Study and Application of Dynamic Collocation of Variable Weights Combination Forecasting Model
   Ning Cao, Xiaomin Xie, and Jianjun Huang
6. UbiSim: Multiple Sensors Mounted Smart House Simulator Development
   Wonsik Lee, Seoungjae Cho, Wei Song, Kyhyun Um, and Kyungjeun Cho
7. A Method of Field Recognizing Based on Association Strength
   Yang Liu, Lingyu Xu, Jie Yu, Fei Zhong, and Yanhong Zhang
1. Remote Sensing Images Super-Resolution Based on Sparse Dictionaries and Residual Dictionaries
   Yin Ying Zhang, Wei Wu, Yong Dai, Xiaomin Yang, and Binyu Yan
2. Graph-based Friend Recommendation in Social Networks using Artificial Bee Colony
   Fatemeh Akbari, Amir Hooshang Tojfar, and Akbar Farhoodi Nejad
3. A Lightweight Appliance Recognition Approach for Smart Grid
   Wei-Ting Cho, Lien-Chun Wang, Yu-Sheng Chiu, and Chin-Feng Lai
4. Emulation of Network Path Quality Indicators
   Ruijie Ou, Wenyu Chen, Weishun Li, and Linli Guo
5. Profit-based Caching for Information-centric Network*Organization/Company
   Jie Duan, Xiong Wang, Sheng Wang, and Shizhong Xu
6. MIMO DAS Solutions in LTE Indoor System
   Youxiang Wang and Fuchang Li
7. Performance of LTE-A Uplink with Joint Reception and Inter-Cell Interference Coordination
   Yong Li and Zhangqin Huang
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**EmbeddedCom-01**

   *Guoqiang Hang*
2. FPGA Implementation of Two SAR Autofocus Algorithms  
   *Haiyang Cao and Daiyin Zhu*
3. A Delay Slot Scheduling Framework for VLIW Architectures In Assembly-Level  
   *Huan Ying, Hao Zhu, Zhiyuan Xue, Donghui Wang, and Chaohuan Hou*
4. A Radiation Hardened SRAM in 180-nm RHBD Technology  
   *Nan Chen, Tingcun Wei, Xiaomin Wei, Xiao Chen, and Feifei Xue*
5. View Oriented Approach to Specify and Model Aerospace Cyber-Physical Systems  
   *Lichen Zhang*
6. A Study on Improving the Abnormal Signal Detection Ability of Digital Storage Oscilloscope  
   *Jun Jiang and Peng Ye*
7. A Novel Mobile Device NFC Stack Architecture  
   *Kun Xiao and Lei Luo*

**EmbeddedCom-02**

1. Frequency Control of PV-Diesel Hybrid Power System using Optimal Fuzzy Logic Controller  
   *Nasseer K Bachache, Bashar Sakeen, and Shaorong Wang*
2. Towards a Better Cache Utilization Using Controlled Cache Partitioning  
   *Prateek D. Halwe, Shirshendu Das, and Hemangee K. Kapoor*
3. Intelligent Early-warning System for Landslides Based on the ZigBee Network  
   *Yuanhong Wang, Jian Xu, Yu Zhang, and Shushan Yang*
4. The Research of Motion Capture Technology Based on Inertial Measurement  
   *Bo Feng, Xianggang Zhang, and Huitong Zhao*
5. Minimizing Multiple-Priority Inversion Protocol in Hard Real Time System  
   *Furkan Rabee, Yong Liao, and Maolin Yang*
6. Design of Bitstream Co-processor for Multimedia Applications  
   *Yingke Gao, Huan Ying, Zhiyuan Xue, Tiejun Zhang, Donghui Wang, and Chaohuan Hou*
7. A Particle Filter Based Train Localization Scheme Using Wireless Sensor Networks  
   *Jothi V N Vijayakumar, Haibo Zhang, Zhiyi Huang, and Adeel Javed*
Sunday December 22\textsuperscript{nd}, 2013

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10:45-12:15  EmbeddedCom-03 (Huanglong Hall)
12:15-13:30  Lunch (Minshan Hall)
14:00-15:30  N/A
15:30-15:45  Coffee Break (The Third Floor Lobby)
15:45-17:15  EmbeddedCom-04 (Jiaozi Hall)

EmbeddedCom-03

1. Research on Client/Server Communication Mechanism in AUTOSAR System
   Hao Chen, Lei Luo, Hua Yan, Geng Chen, and Shenglin Gui
2. Revisiting Amplification Behavior of NAND Flash-based Storage Devices in Embedded Systems
   Hui Sun
3. FPGA Implementation of Polar Format Algorithm for Airborne Spotlight SAR Processing
   Linchen Zou, Jindong Zhang, Daiyin Zhu, and Haiyang Cao
4. Research on Key Technology for phase-shift Laser Range Finder
   XianBo Sun, Jian Xu, and ShaoJun Huang
5. Optimized Cache Replacement Scheme for Video on Demand Service
   Xiaocui Sun and Zhijun Wang
6. A Data Reusing Strategy Based on Column-Stores
   Mei Wang, Jiaoling Zhou, Xiaoling Xia, and Jiajin Le
7. A Distributed Real-Time Operating System with Distributed Shared Memory for Embedded Control Systems
   Takahiro Chiba, Myungryun Yoo, and Takanori Yokoyama

EmbeddedCom-04

1. Delay Aware Broadcast Forwarding Protocol for Asynchronous Duty-cycled WSNs
   Peizhong Shi and Yun Wang
   Maolin Yang, Hang Lei, Yong Liao, and Furkan Rabee
3. Discrete Hybrid Automata for Safe Cyber-Physical System: An Astronautic Case Study
   Qiang Wang, Gang Yang, Xingshe Zhou, and Yalei Yang
   Zhan Xu
5. A Fault-tolerant Routing Algorithm for NoC Using Farthest Reachable Routers
   Junshi Wang, Xiaohang Wang, Letian Huang, Terrence Mak, and Guangjun Li
6. A Clock Based Framework for Specifying and Modeling the Time Constraints of Cyber Physical Systems
   Bingqing Xu and Lichen Zhang
7. The Study on the Self-similarity and Simulation of CPS Traffic
   Jun Shen, Cuibo Yu, and Xuerong Gou
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ScalCom-01

1. An Energy-efficient Scheduling Strategy in LTE System
   Yali Miao and Kai Wen
2. Device-to-Device Dynamic Clustering Algorithm In Multicast Communication
   Mingjun Du, Xiaoxiang Wang, Dongyu Wang, and Yulong Wang
3. GCMDBSCAN: Multi-Density DBSCAN Based on Grid and Contribution
   Linmeng Zhang, Zhigao Xu, and Fengqi Si
4. Optimization Strategies for MPI-Interoperable Active Messages
   Xin Zhao, Pavan Balaji, William Gropp, and Rajeev Thakur
5. The Research of Channel Reservation Strategy in LEO Satellite Network
   Xiaolong Wang and Xiaoxiang Wang
6. vMerger: Server Consolidation in Virtualized Environment
   Li Deng, Hai Jin, and Song Wu

ScalCom-02

1. A Multicast Routing Algorithm for GEO/LEO Satellite IP Networks
   Chao Yuan and Xiaoxiang Wang
2. An Improved Congest Control Protocol Based on TCP Veno Protocol
   Jianlin Zhang
3. Tunnel Congestion Exposure and Feedback
   Yi Lin, Xinpeng Wei, Lei Zhu, and Xiangyang Gong
4. A New Gaussian-like Density Model and its Application to Object-Tracking
   Xifeng Li and Yongle Xie
5. A Resource Allocation Scheme for MBMS with QoS Guarantees
   Yulong Wang, Xiaoxiang Wang, Mingming Li, and Zhiguo Liu
6. An Improved 2D Drafting Method of Contour in CATIA*
   Liyong Fang, Haihuang Zhang, and Hui Li
7. A Bounded Polymorphic Session Type System with Delegation
   Tiantian Song and Farong Zhong
## ScalCom-03

1. Parallel Simulation of Large-Scale Universal Particle Systems Using CUDA  
   Xiangfei Li and Xuzhi Wang
2. A New Algorithm to Exploit Superword Level Parallelism  
   Peng Liu, Rongcai Zhao, Wei Gao, and Shuai Wei
3. Analyzing Packet-level Routing in Data Centers  
   Ruoyan Liu, Huaxi Gu, Yawen Chen, and Haibo Zhang
4. A Parity-based Opportunistic Multicast Scheduling Scheme over Cellular Networks  
   Yulong Wang, Xiaoxiang Wang, Mingming Li, and Jing Qu
5. Design and Implementation of Parallel FFT on CUDA  
   Xueqin Zhang, Kai Shen, Chengguang Xu, and Kaifang Wang
6. Multi-Core Supported High Performance Security Analytics  
   Feng Cheng, Amir Azodi, David Jaeger, and Christoph Meinel

## ScalCom-04

1. Low-cost routing for Manycast communication  
   Xuegong Tan
2. Convergence and Scalarization in Whole Function Vectorization  
   Feng Yue, Jianmin Pang, Jiuzhen Jin, and Chao Dai
3. DSNOC: A Hybrid Dense-Sparse Network-on-Chip Architecture for Efficient Scalable Computing  
   Thomas Canhao Xu, Ville Leppänen, and Martti Forsell
4. A Wireless Resources Allocation Method for D2MD Communication Under IMT-A System  
   Hanzeng Wang, Xiaoxiang Wang, Dongyu Wang, and Yulong Wang
5. Managing Large Scale Unstructured Data with RDBMS  
   Zhe Jiang, Yi Luo, Naihu Wu, Chunjiang He, Pingpeng Yuan, and Hai Jin
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