

**2013 IEEE International Conference on Green
Computing and Communications (GreenCom
2013) and IEEE Internet of Things (iThings
2013) and IEEE Cyber, Physical and Social
Computing (CPSCom 2013)**

**Beijing, China
20 - 23 August 2013**

Pages 1-698



IEEE Catalog Number: CFP13GCC-POD
ISBN: 978-1-4799-0631-4

**2013 IEEE International
Conference on Green
Computing
and Communications and IEEE
Internet of Things and IEEE
Cyber, Physical and Social
Computing**

GreenCom-iThings-CPSCom 2013

Table of Contents

GreenCom-iThings-CPSCom 2013: Message from Joint Executive/Steering Chairs.....	xxxv
GreenCom-iThings-CPSCom 2013: Local Committee.....	xxxvi
GreenCom 2013: Message from General Chairs.....	xxxvii
GreenCom 2013: Message from Program Chairs.....	xxxix
GreenCom 2013: Message from Steering Chair.....	xl
GreenCom 2013: Message from Workshops Chairs.....	xli
GreenCom 2013: Organizing and Program Committees.....	xlii
GreenCom 2013 WS: Organizing and Program Committees	l
iThings 2013: Message from General Chairs	li
iThings 2013: Message from General Co-chairs.....	iii
iThings 2013: Message from Program Chairs	liii

iThings 2013: Message from Steering Committee	iv
iThings 2013: Organizing and Program Committees	lvii
CPSCoM 2013: Message from General Chairs	lxiii
CPSCoM 2013: Message from Program Chairs	lxv
CPSCoM 2013: Message from Steering Committee	lxvii
iThings-CPSCoM 2013: Message from Symposia/Workshops Chair	lxviii
CPSCoM 2013: Organizing and Program Committees	lxix
iThings-CPSCoM 2013: Symposia Organizing and Program Committees	lxxvi
iThings-CPSCoM 2013: Workshop Organizing and Program Committees	lxxviii
Tutorial Talk: Professor Vincenzo Piuri	lxxi
Keynotes	lxxiii

2013 IEEE International Conference on Green Computing and Communication (GreenCom 2013)

Track CN: Communications and Networking

Delaunay Triangulation Based Green Base Station Operation for Self Organizing Network	1
<i>Gilsoo Lee, Hongseok Kim, Young-Tae Kim, and Byoung-Hoon Kim</i>	
e-STAB: Energy-Efficient Scheduling for Cloud Computing Applications with Traffic Load Balancing	7
<i>Dzmitry Kliazovich, Sisay T. Arzo, Fabrizio Granelli, Pascal Bouvry, and Samee Ullah Khan</i>	
Watts2Share: Energy-Aware Traffic Consolidation	14
<i>Ekhiotz Jon Vergara and Simin Nadim-Tehrani</i>	
On Fixed-Path Variable-Bandwidth Scheduling in High-Performance Networks	23
<i>Liudong Zuo, Mustafa Khaleel, Michelle M. Zhu, and Chase Qishi Wu</i>	

Geographic Multipath Routing in Duty-Cycled Wireless Sensor Networks with Energy Harvesting	31
<i>Guangjie Han, Yuhui Dong, Lei Shu, Hui Guo, and Jianwei Niu</i>	
A Power Consumption Reduction Scheme in Hose-Model Networks with Bundled Links	40
<i>Seydou Ba, Ihsen Aziz Ouédraogo, and Eiji Oki</i>	
Caching Design in Green Content Centric Networking Based on Chemical Reaction Optimization	46
<i>Renchao Xie, Tao Huang, F. Richard Yu, and Yunjie Liu</i>	
GA-Based Green SFN Planning for DTMB	51
<i>Li Caiwei and Zhang Xiaolin</i>	
Optimization of Renewable Green Base Station Deployment	59
<i>Turgay Pamuklu and Cem Ersoy</i>	
Study of Dynamic Topology Change for Total Energy Consumption in Green IP Networks	64
<i>Steven S.W. Lee and Kuang-Yi Li</i>	
Energy-Efficient Dynamic Network Selection in Heterogeneous Wireless Networks	71
<i>Chao Qian, Changqing Luo, Fei Hao, Laurence T. Yang, and Geyong Min</i>	

Track DHSMT: Devices, Hardware, Software, Methodologies and Tools

Power Management for High-Performance Applications on Network-on-Chip-Based Multiprocessors	77
<i>Adán Kohler and Martin Radetzki</i>	
Stability and Robustness Issues in Real-Time Sustainable Wireless Sensors	86
<i>Maissa Abdallah, Maryline Chetto, Audrey Queudet, and Rafic Hage Chehade</i>	
Estimating the Energy Consumption of Executing Software Processes	94
<i>Vivek Kumar Singh, Kaushik Dutta, and Debra VanderMeer</i>	
Reactive DVFS Control for Multicore Processors	102
<i>Jean-Philippe Halimi, Benoît Pradelle, Amina Guermouche, Nicolas Triquenaux, Alexandre Laurent, Jean Christophe Beyler, and William Jalby</i>	
A Polymorphic Green Service Approach for Data Center Energy Consumption Management	110
<i>Fawaz Al-Hazemi</i>	
A User Friendly Phase Detection Methodology for HPC Systems' Analysis	118
<i>Ghislain Landry Tsafack Chetsa, Laurent Lefevre, Jean-Marc Pierson, Patricia Stolf, and Georges da Costa</i>	

Track ESAEI: Economics, Social Networks, Applications and Emerging Interdisciplinary

An Exploration of the Impact of Organizational Culture on the Adoption of Green IT	126
<i>William M. Campbell, Martyn Ratcliffe, and Philip Moore</i>	
Energy Consumption and Efficiency in Mobile Applications: A User Feedback Study	134
<i>Claas Wilke, Sebastian Richly, Sebastian Götz, Christian Piechnick, and Uwe Aßmann</i>	

Track MMASA: Metrics, Models, Algorithms, Systems and Architectures

Collaborative Sleeping Scheme for Femtocell Networks	142
<i>Yun Li, Yufang Jia, Yong Wang, and Qilie Liu</i>	
Energy Aware Resource Management for Clusters of Web Servers	148
<i>Simon Kierscher and Bettina Schnor</i>	
Base Station Sleeping with Dynamical Clustering Strategy of CoMP in LTE-advanced	157
<i>Yun Li, Yafei Ma, Yong Wang, and Weiliang Zhao</i>	
Energy-Efficient Scheduling for Multicore Systems with Bounded Resources	163
<i>Ziliang Zong, Jonathan Bush, Rong Ge, Xin Li, and Zizhong Chen</i>	

Track OACCS: Optimization and/or Analysis in Communications, Computing and Smart Grids

Accurate and Low-Overhead Process-Level Energy Estimation for Modern Hard Disk Drives	171
<i>Jun Yan, Cejo K. Lonappan, Amir Vajid, Digvijay Singh, and William J. Kaiser</i>	
Robust Redundancy Elimination for Energy-Aware Routing	179
<i>David Coudert, Arie M.C.A. Koster, Truong Khoa Phan, and Martin Tieves</i>	
SESAMES: A Smart-Grid Based Framework for Consuming Less and Better in Extreme-Scale Infrastructures	187
<i>Mohammed El Mehdi Diouri, Olivier Glück, and Laurent Lefèvre</i>	
On Cooperative Energy-Efficient P2P Live Streaming System for Mobile Hotspots	195
<i>Ming-Hung Chen, Cheng-Fu Chou, Ke-Han Lee, and Chun-Yuan Chang</i>	
Frequency-Utilization Based Power-Aware Schedule Policy for Real-Time Multi-core System	200
<i>Lin Zhou and Lei Yu</i>	
Optimized Thermal-Aware Workload Distribution Considering Allocation Constraints in Data Centers	208
<i>Hassan Shamalizadeh, Luis Almeida, Shuai Wan, Paulo Amaral, Senbo Fu, and Shashi Prabh</i>	

Track SBDCC: Storage, Big Data and Cloud Computing

TARGO: Transition and Reallocation Based Green Optimization for Cloud VMs	215
<i>Daren Fang, Xiaodong Liu, Lin Liu, and Hongji Yang</i>	
Designing a Power-Aware Replication Strategy for Storage Clusters	224
<i>Lingwei Zhang and Yuhui Deng</i>	
Energy-Aware Workflow Job Scheduling for Green Clouds	232
<i>Fei Cao and Michelle M. Zhu</i>	
Follow-Me Cloud: An OpenFlow-Based Implementation	240
<i>Tarik Taleb, Peer Hasselmeyer, and Faisal Ghias Mir</i>	
A Heuristics Approach for Reducing Power Consumption of Cloud Data Center	246
<i>Fei Zhang, Yizhou Yan, Wenjun Wu, and Liang Luo</i>	
Assessment Criteria for Trust Models in Cloud Computing	254
<i>Ayesha Kanwal, Rahat Masood, Um E. Ghazia, Muhammad Awais Shibli, and Abdul Ghafoor Abbasi</i>	
Minimizing Latency in Fetching Virtual Machine Images Based on Multi-point Collaborative Approach	262
<i>Binbin Huang, Rongheng Lin, Kai Peng, Hua Zou, and Fangchun Yang</i>	
Estimating the Power Consumption of an Idle Virtual Machine	268
<i>Flavien Quesnel, Hemant Kumar Mehta, and Jean-Marc Menaud</i>	
Green Spectrum Sharing in a Cloud-Based Cognitive Radio Access Network	276
<i>Sau-Hsuan Wu, Hsi-Lu Chao, Chun-Hsien Ko, Shang-Ru Mo, Chiau-Feng Liang, and Chung-Chieh Cheng</i>	

Track SPTC: Security, Privacy and Trust Computing

Dynamic Adjustment of the Chaos-Based Security in Real-Time Energy Harvesting Sensors	282
<i>M. Farajallah, S. El Assad, and Maryline Chetto</i>	
On the Key Revocation Schemes in Wireless Sensor Networks	290
<i>Dieynaba Mall, Karim Konaté, and Al-Sakib Khan Pathan</i>	
A Social-Enhanced Data Verification Framework against Pollution Attacks in P2P Live Streaming	298
<i>Ming-Hung Chen, Ko-Jo Lee, Cheng-Fu Chou, and Chun-Yuan Chang</i>	
Identifying Interest Flooding in Named Data Networking	306
<i>Jianqiang Tang, Zhongyue Zhang, Ying Liu, and Hongke Zhang</i>	

Poster (Short Paper) Subtrack

IC Design of a Low-Power Analog LDPC Decoder Employing New Stopping Iteration Method	311
<i>Wen-Ta Lee, Sheng-Sung Chiu, and Yu-Shi Ke</i>	
A Server Friendly File Synchronization Mechanism for Cloud Storage	314
<i>Chao Yang, Ye Tian, Di Ma, Shuo Shen, and Wei Mao</i>	
Temporal Power Model for Effective Usage in Data Center	317
<i>Fawaz Al-Hazemi</i>	
Investigation of Data Communication Networks to Enable Demand Response and Dynamic Tariffs	320
<i>Ioana Pisica, Colin J. Axon, Gareth A. Taylor, Ramon Granell, and David C.H. Wallom</i>	
Energy-Efficient Networks with Optimal Traffic Splitting	324
<i>Ruchaneeya Leepila, Eiji Oki, and Naoto Kishi</i>	

2013 IEEE International Conference on Internet of Things (iThings 2013)

Track 1: Applications, Business, Standards and Social Issues

An Interactive Approach of Online Software Customization via Conversational Web Agents	327
<i>Xiaobu Yuan and Xieshen Zhang</i>	
Enhancing Wireless Sensor Networks with Acoustic Sensing Technology: Use Cases, Applications & Experiments	335
<i>Danilo Hollosi, György Nagy, René Rodigast, Stefan Goetze, and Philippe Cousin</i>	
Design and Implement of an EPC Encoding and Decoding System for Enterprise Application	343
<i>Huiqun Zhao and Biao Shi</i>	
A Social Web of Things Approach to a Smart Campus Model	349
<i>Yacine Atif and Sujith Mathew</i>	
ALMA, A Logistic Mobile Application Based on Internet of Things	355
<i>Didier El-Baz, Julien Bourgeois, Toufik Saadi, and Alessandro Bassi</i>	
Fast Motion Estimation Algorithm Based on H.264	359
<i>Jian Chen, Xia Mao, and Li-jiang Chen</i>	
Plantation Monitoring System Based on Internet of Things	366
<i>Yixiong Wang, Jun Song, Xiaofeng Liu, Shan Jiang, and Yunfei Liu</i>	
EGF-Tree: An Energy Efficient Index Tree for Facilitating Multi-region Query Aggregation in the Internet of Things	370
<i>Jine Tang, ZhangBing Zhou, Jianwei Niu, and Qun Wang</i>	

An Immune Theory Based Health Monitoring and Risk Evaluation of Earthen Sites with Internet of Things	378
---	-----

Yun Xiao, Xiaojiang Chen, Lin Wang, Wei Li, Baoying Liu, and Dingyi Fang

Internet of Things Based Data Driven Storytelling for Supporting Social Connections	383
---	-----

Qiong Wu, Zhiqi Shen, Cyril Leungy, Huiguang Zhang, Ailiya, Yundong Cai, and Chunyan Miao

Design of GSM-Based Tele-monitoring and Alarm System for Disposable Diaper	391
--	-----

Qin Taichun, Li Xiaogang, Wang Yahui, and Liu Ziwei

Track 2: Architecture and Infrastructure

Architecture Design of Internet of Things in Logistics Management for Emergency Response	395
--	-----

Ran Xu, Lili Yang, and Shuang-Hua Yang

A Scalable IoT Service Search Based on Clustering and Aggregation	403
---	-----

Sameh Ben Fredj, Mathieu Boussard, Daniel Kofman, and Ludovic Noirie

A Domain Model for the Internet of Things	411
---	-----

Stephan Haller, Alexandru Serbanati, Martin Bauer, and Francois Carrez

Towards an OSGi Based Pervasive Cloud Infrastructure	418
--	-----

Weishan Zhang, Licheng Chen, Qinghua Lu, Yuan Rao, and Jiehan Zhou

A Mobile Phone Based WSN Infrastructure for IoT over Future Internet Architecture	426
---	-----

Jun Li, Yanyong Zhang, Yih-Farn Chen, Kiran Nagaraja, Sugang Li,

and Dipankar Raychaudhuri

Track 3: Distributed Sensing and Control

A RSSI Localization Algorithm Based on Interval Analysis for Indoor Wireless Sensor Networks	434
--	-----

Ligong Li, Yinfeng Wu, Yongji Ren, and Ning Yu

A Device-Centric Policy Conflict in IoT	438
---	-----

Lijuan He, Xiaofeng Qiu, and Teng Gao

Self-Organised Middleware Architecture for the Internet-of-Things	445
---	-----

Pedro Maló, Bruno Almeida, Raquel Melo, Kostas Kalaboukas, and Philippe Cousin

Efficient Simulation of Distributed Sensing and Control Environments	452
--	-----

Dominique Dhoutaut, Benoit Piranda, and Julien Bourgeois

Track 4: Intelligent Data Processing and Ubiquitous Computing

Spatio-temporal Feature Enhanced Semi-supervised Adaptation for Activity Recognition in IoT-Based Context-Aware Smart Homes	460
---	-----

Chao-Lin Wu, Yi-Show Tseng, and Li-Chen Fu

A Linked-Data Model for Semantic Sensor Streams	468
---	-----

Payam Barnaghi, Wei Wang, Lijun Dong, and Chonggang Wang

A Universal Storage Architecture for Big Data in Cloud Environment	476
<i>Qingchen Zhang, Zhikui Chen, Ailing Lv, Liang Zhao, Fangyi Liu, and Jian Zou</i>	
Time Efficient Tag Searching in Multiple Reader RFID Systems	481
<i>Shigeng Zhang, Xiaoxian He, Hong Song, and Daqiang Zhang</i>	
PDA-Based Application and Research for Workshop Internet of Things	489
<i>Fang Zhiliang, Wang Xin, Yan Guangrong, and Ding Tao</i>	
Fuel Consumption Estimates Based on Driving Pattern Recognition	496
<i>Xiaohua Zhou, Jian Huang, Weifeng Lv, and Dapeng Li</i>	
Adaptive Channel-Based Routing in Content-Based Pub/Sub Systems	504
<i>Sen Li, Yifeng Qian, Yuwei Yang, and Beihong Jin</i>	
Analysis of Travel Time Patterns in Urban Using Taxi GPS Data	512
<i>Mengdan Gao, Tongyu Zhu, Xuejin Wan, and Qi Wang</i>	
Measuring Data Transfer in Heterogeneous IoT Environments	518
<i>Pedro Maló, Márcio Mateus, Bruno Almeida, and Tiago Teixeira</i>	

Track 5: Intelligent Management

Resource Annotation, Dissemination and Discovery in the Semantic Web of Things: A CoAP-Based Framework	527
<i>M. Ruta, F. Scioscia, A. Pinto, E. Di Sciascio, F. Gramegna, S. Ieva, and G. Loseto</i>	
IOT-StatisticDB: A General Statistical Database Cluster Mechanism for Big Data Analysis in the Internet of Things	535
<i>Zhiming Ding, Xu Gao, Jiajie Xu, and Hong Wu</i>	
Measuring and Understanding Opportunistic Co-presence Patterns in Smart Office Spaces	544
<i>Michele Nati, Alexander Gluhak, Flavia Martelli, and Roberto Verdone</i>	

Track 6: Networks and Communications

An Extension of DTFT-Based Sinusoidal Signal Time Delay Estimation Algorithm for Linear Time-Varying Situation	554
<i>Yi Huang, Aiqun Hu, Wei Liu, Tao Li, and Shengdong Xie</i>	
A Progressive Population Estimation Based Binary Query Tree Protocol for Efficient RFID Tag Collision Resolution	564
<i>Xin-Qing Yan, Yi-Su Wang, Yang Liu, and Xue-Mei Liu</i>	
The M2M Connectivity Framework: Towards an IoT Landscape	572
<i>Shao-Wen Yang and Yen-Kuang Chen</i>	
The Effect of Hexagonal Grid Topology on the Throughput Benefit of Network Coding	580
<i>Fuhua Huang and Tao Shang</i>	
A Passive Conformance Testing Method for 6LoWPAN Network	585
<i>Hua Chai, Xiaohong Huang, Jing Qian, and César Viho</i>	
A FSM-based Test Sequence Generation Method for RPL Conformance Testing	591
<i>Jun Tang, Xiaohong Huang, Jing Qian, and César Viho</i>	

A Generic SUT Adapter Framework for Protocol Conformance Testing	598
<i>Jiexi Zha, Xiaohong Huang, Jing Qian, and César Viho</i>	
Enhanced IEEE 802.11 Power Saving for Multi-hop Toy-to-Toy Communication	603
<i>Ioannis Glaropoulos, Stefan Mangold, and Vladimir Vukadinovic</i>	
Streaming the Sound of Smart Cities: Experimentations on the SmartSantander Test-Bed	611
<i>Congduc Pham and Philippe Cousin</i>	
An Ad-Hoc Smart Gateway Platform for the Web of Things	619
<i>Darren Carlson, Bashar Altakrouri, and Andreas Schrader</i>	
Energy-Efficient and Low-Delay Scheduling Strategy for Low Power Wireless Sensor Network	626
<i>Zheng Zhang, Zhenbo Li, and Jiapin Chen</i>	
MOCLO: A Cloud Framework for Mobile Devices	632
<i>Akash Gangil, Sanjay K. Dhurandher, Mohammad S. Obaidat, Vijit Singh, and Sushant Bhatia</i>	
Efficient Simulation Environment of Wireless Radio Communications in MEMS Modular Robots	638
<i>Nicolas Boillot, Dominique Dhouaut, and Julien Bourgeois</i>	
An Improved Location Algorithm Based on CC2431	646
<i>Yinghui Kong and Qingqing Yang</i>	
A Location Optimization Method Based on Communication Requirements to Reconnect Separated Communication Areas after a Disaster	653
<i>Junbo Wang, Kazuhiro Matsumoto, Zixue Cheng, and Yinghui Zhou</i>	
Towards the Benefit of Multi-hop Relaying in Opportunistic Networking	658
<i>Jia Jianbin, Chen Yingwen, Xu Ming, Xia Geming, and Xiao Xiaoqiang</i>	

Track 7: Reliability, Security, Privacy and Trust

Random Forest Classification for Detecting Android Malware	663
<i>Mohammed S. Alam and Son T. Vuong</i>	

Track 8: System Design Modeling and Evaluation

Emotion Animation of Embodied Conversational Agents with Contextual Control Model	670
<i>Xiaobu Yuan and Rajkumar Vijayarangan</i>	
A Passive Testing Approach for Protocols in Internet of Things	678
<i>Xiaoping Che and Stephane Maag</i>	
Using Patterns of Social Dynamics in the Design of Social Networks of Sensors	685
<i>Marcello Tomasini, Franco Zambonelli, and Ronaldo Menezes</i>	
Building a Practical Sensing System	693
<i>Robert S. Moore, Bernhard Firner, Chenren Xu, Richard Howard, Yanyong Zhang, and Richard P. Martin</i>	

Efficient Data Gathering in Wireless Sensor Networks Based on Low Rank Approximation	699
<i>Xinglin Piao, Yongli Hu, Yanfeng Sun, and Baocai Yin</i>	
Distributed Resolution of a Trajectory Optimization Problem on a MEMS-Based Reconfigurable Modular Surface	707
<i>Serge Tembo and Didier El-Baz</i>	
A Theoretical Model to Efficiently Transport YouBike	716
<i>Cheng-Chung Li and Lingyi Liu</i>	
Design and Implementation of a Smart IoT Gateway	720
<i>Shang Guoqiang, Chen Yanming, Zuo Chao, and Zhu Yanxu</i>	
UAI-IOT Framework: A Method of Uniform Interfaces to Acquire Information from Heterogeneous Enterprise Information Systems	724
<i>Hongyu Li, Ye Tian, Yang Liu, Tingli Li, and Wei Mao</i>	

2013 IEEE International Conference on Cyber, Physical and Social Computing (CPSCom 2013)

Track 1: Applications and Services

AMPS: An Adaptive Message Push Strategy for Ubiquitous Terminals	731
<i>Kehua Guo, Yongling Liu, and Jianhua Ma</i>	
Smart Signage: An Interactive Signage System with Multiple Displays	737
<i>James She, Jon Crowcroft, Hao Fu, and Pin-Han Ho</i>	
A Semi-supervised Incremental Learning Algorithm Based on Auto-adaptive Probabilistic Hypergraph and Its Application for Video Semantic Detection	743
<i>Jiayao Sun and Yongzhao Zhan</i>	
Enhancing Adherence to Cognitive Behavioral Therapy for Insomnia through Machine and Social Persuasion	750
<i>Yong-Xiang Chen, Hsi-Chung Chen, Li-Xiang Chen, Jia-Wei Hu, Chuen-Kai Shie, Yu-Shan Lin, Pradnya Borade, Chau-Che Yeh, Han-Hong Lin, Siek-Siang Chiang, Yu-Chun Chen, Wei-Zen Sun, and Yi-Ping Hung</i>	
Social TV EPG Interaction Design for Multi-screen Environment	758
<i>Fang You, Jian-Min Wang, Han Cao, Ting Xie, and Ze-Long Tang</i>	

Track 2: Cloud Computing and Data Mining

Generating Discriminative Visual Vocabulary Based on Fusion of Features	764
<i>Chang-Sheng Peng</i>	
A Review of Key Issues That Concern the Feasibility of Mobile Cloud Computing	769
<i>Chunsheng Zhu, Victor C.M. Leung, Xiping Hu, Lei Shu, and Laurence T. Yang</i>	
An Effective IoT Services Indexing and Query Technique	777
<i>Chu Du, Zhangbing Zhou, Lei Shu, Xiangyang Jia, and Qun Wang</i>	

Visualization Services for Multidisciplinary Experiments on Cloud-Based Virtual Educational Platform	783
<i>Guodong Jia, Xiaowu Chen, Faming Li, and Rongjiang Pan</i>	

Track 3: Cyber-Physical Systems and Society

An Implementation towards Integrated Simulation of Cyber-physical Systems	789
<i>Xiaoyu Li, Yuying Wang, Xingshe Zhou, Dongfang Liang, and Chenglie Du</i>	
In-Situ Web Mashup and Hypermedia Support for Mobile Vision-Based AR Applications	797
<i>Yu You, Lixin Fan, Ville-Veikko Mattila, Alain Boyer, and Tuomas Kantonen</i>	
Formal Specification of Cyber Physical Systems: Three Case Studies Based on Clock Theory	804
<i>Bingqing Xu and Lichen Zhang</i>	
Smart Business Services via Consumer Purchasing Behaviour Modeling	812
<i>Atsushi Sato, Toshihiro Tamura, Runhe Huang, Jianhua Ma, and Neil Y. Yen</i>	
iCPS-Car: An Intelligent Cyber-physical System for Smart Automobiles	818
<i>Sha Zhao, Shijian Li, Longbiao Chen, Yang Ding, Zeming Zheng, and Gang Pan</i>	
Privacy-Preserving Point-to-Point Transportation Traffic Measurement through Bit Array Masking in Intelligent Cyber-physical Road Systems	826
<i>Yian Zhou, Qingjun Xiao, Zhen Mo, Shigang Chen, and Yafeng Yin</i>	
Social Community-Partition Aware Replica Allocation in Ad-Hoc Social Networks	834
<i>Ahmedin Mohammed Ahmed, Feng Xia, Nana Yaw Asabere, Hannan Bin Liaqat, and Jie Li</i>	

Track 4: Pervasive/Ubiquitous Control, Computing and Networking

Faceted Search in Business Intelligence on the Cloud	842
<i>Hussain Al-Aqrabi, Lu Liu, Richard Hill, Lei Cui, and Jianxin Li</i>	
Inferring Barriers of Urban City Using Mobile Phone Record	850
<i>Feng Xiang, Lai Tu, and Benxiong Huang</i>	
A Global Dynamic Queuing Strategy on Scale-Free Networks	856
<i>Pengcheng Xu and Chen Hong</i>	

Track 5: Security, Trustworthiness and Privacy

Trust and Risk-Based Access Control Model for Zero-Knowledge Oriented Mobile Peer-to-Peer Environments	860
<i>Zhi-yan Li, Jun-lei Bi, and Lu Liu</i>	
Distributed SVM Classification with Redundant Data Removing	866
<i>Xiangjun Shen, Zhen Li, Zhongqiu Jiang, and Yongzhao Zhan</i>	
Smart Grid Wireless Network Security Requirements Analysis	871
<i>Khaja Altaf Ahmed, Zeyar Aung, and Davor Svetinovic</i>	

A Video Semantic Analysis Method Based on Kernel Discriminative Sparse Representation and Weighted KNN	879
<i>Shan Dai, Yongzhao Zhan, Qirong Mao, and Shanshan Zhang</i>	
Implementation of an SMS Spam Control System Based on Trust Management	887
<i>Liang Chen, Zheng Yan, Weidong Zhang, and Raimo Kantola</i>	
Privacy Disclosure Identification in Social Networks	895
<i>Feng Zhang, Bin Wu, Bai Wang, and Feng Gao</i>	
Moments in Time: A Forensic View of Twitter	899
<i>Chris Howden, Lu Liu, Zhijun Ding, Yongzhao Zhan, and K.P. Lam</i>	
A Query-Aware Location Privacy Protection Approach in LBS for Road Networks	909
<i>Wei Li, Jiangtao Jiang, Yunchun Li, and Guojun Li</i>	
Unveil the Spams in Weibo	916
<i>Kan Chen, Liang Chen, Peidong Zhu, and Yueshan Xiong</i>	

Track 6: Sensor/Actuator Networks

Understanding Human Dynamics of Check-in Behavior in LBSNs	923
<i>Yun Feng, Zhiwen Yu, Xinjiang Lu, and Jilei Tian</i>	
Reliability Extensions and Multi-hop Evaluation of Distributed Protocol Stacks	931
<i>Peter Rothenpieler</i>	
Evaluation of the Task Communication Performance in Wireless Sensor Networks: A Queue Theory Approach	939
<i>Wang Jie, Kuan-jiu Zhou, Kai Cui, Xiang-jie Kong, and Guang Yang</i>	
An Improved Stable Election Based Routing Protocol with Mobile Sink for Wireless Sensor Networks	945
<i>Jin Wang, Zhongqi Zhang, Jian Shen, Feng Xia, and Sungyoung Lee</i>	
Mobile-Sink Routing Algorithm Based on Energy and Distance for Wireless Sensor Networks	951
<i>Jin Wang, Xiaoqin Yang, Jian Shen, Ping Guo, and Feng Xia</i>	
Integration of Range-Based and Range-Free Localization Algorithms in Wireless Sensor Networks for Mobile Clouds	957
<i>Yufeng Wang, Qun Jin, and Jianhua Ma</i>	

Track 7: Social Computing

Modeling and Predicting the Re-post Behavior in Sina Weibo	962
<i>Xinjiang Lu, Zhiwen Yu, Bin Guo, and Xingshe Zhou</i>	
Predicting Content Virality in Social Cascade	970
<i>Ming Cheung, James She, and Lei Cao</i>	
ContextOS: A Context Aware Operating System for Mobile Devices	976
<i>Kanishka Ariyapala, Mauro Conti, and Chamath Keppitiyagama</i>	
Follow You from Your Photos	985
<i>Jie Zhang, Hui Zhao, and Yusheng Xie</i>	

On the Evolution of Contacts and Communities in Networks of Face-to-Face Proximity	993
<i>Mark Kibarov, Martin Atzmueller, Christoph Scholz, and Gerd Stumme</i>	
Community Detection Based on Readers' Borrowing Records	1001
<i>Liu Xin, E. Haihong, and Song Junde</i>	
Design of a Mobile Telephony System for Social Interaction	1006
<i>Yuan-Chih Yu</i>	
Understanding News Sharing in Social Media from the Diffusion of Innovations Perspective	1013
<i>Long Ma, Chei Sian Lee, and Dion H. Goh</i>	
A Study of Offline Events and Its Influence on Online Social Connections in Douban	1021
<i>Alvin Chin, Jilei Tian, Junwei Han, and Jianwei Niu</i>	
How Long a Passenger Waits for a Vacant Taxi—Large-Scale Taxi Trace Mining for Smart Cities	1029
<i>Guande Qi, Gang Pan, Shijian Li, Daqing Zhang, Lin Sun, and Laurence Tianruo Yang</i>	

iThings/CPSCom 2013 Symposia

Symposium on Frontiers of Internet of Things (SymIoT)

Frequent Itemset Based Event Detection in Uncertain Sensor Networks	1037
<i>Yongxuan Lai and Jinshan Xie</i>	
Improved RETE Algorithm in Context Reasoning for Web of Things Environments	1044
<i>Teng Gao, Xiaofeng Qiu, and Lijuan He</i>	
Ultra-low-power Neural Recording Microsystem for Implantable Brain Machine Interface	1050
<i>Weidong Cao and Hongge Li</i>	
From Internet of Things to Internet of Agents	1054
<i>Han Yu, Zhiqi Shen, and Cyril Leung</i>	
Using Kasa Method to Separate Target's RCS Characters from Background in Electromagnetic Sensing within Anechoic Chamber Measurement	1058
<i>Jingcheng Zhao and Ming Lv</i>	
Research on IPv6 Address Forecast Model of Smart Grid	1064
<i>Xin Miao and Xi Chen</i>	
Relay Node Deployment Based Small World Effect in Hierarchical Industrial Wireless Sensor Networks	1066
<i>Jieyu Wu, Xinyu Shao, and Haiping Zhu</i>	
A Development Analysis of China's Intelligent Transportation System	1072
<i>Yuxiang Yan and Chenxue Xu</i>	
An Anti-collision Algorithm Using Tag Random-Dispersing for RFID Systems	1077
<i>Yang Qing, Li Jian-cheng, Wang Hong-yi, and Shen Rong-jun</i>	
Pairing and Authentication Security Technologies in Low-Power Bluetooth	1081
<i>Junfeng Xu, Tao Zhang, Dong Lin, Ye Mao, Xiaonan Liu, Shiwu Chen, Shuai Shao, Bin Tian, and Shengwei Yi</i>	

An Attribute-Based Encryption Scheme with Constant-Size Ciphertexts	1086
<i>Yanfeng Qi, Chunming Tang, Yu Lou, Maozhi Xu, and Baoan Guo</i>	
Synthetic Evaluation of the Trustworthiness of Integrated Monitoring-Controlling System for LED Display Based on Fuzzy AHP	1089
<i>Yuanmei Wen, Li Luo, Xuechen Yu, and Yanyu Chen</i>	
Improvement of Peach Platform to Support GUI-Based Protocol State Modeling	1094
<i>Hao Wang, Qiaoyan Wen, and Zhao Zhang</i>	
Game Theoretic Analysis of Workload Factoring in Federation of Clouds	1098
<i>Yonggen Gu and Changlei Lin</i>	
Study on Heartbeat Information Acquired from Pressure Cushion Based on Body Sensor Network	1103
<i>Junrong Bao, Xiaoyun Shou, Hua Wang, and Haiyan Yang</i>	
Towards an Equitable Federated Name Service for the Internet of Things	1109
<i>Xinchi Li, Yang Liu, Ye Tian, Ning Kong, Yan Wang, and Wei Mao</i>	
Double Nested Internet of Things for Intelligent Management of Police Equipment	1116
<i>Li Shengguang, Tan Lin, Wang Junxiu, and Yu Rui</i>	
A Universal Object Name Resolution Scheme for IoT	1120
<i>Zhiwei Yan, Ning Kong, Ye Tian, and Yong-Jin Park</i>	
The New Intelligent Prediction for Bus Congestion Based on History Information Processing	1125
<i>Yan Zhang and Guixi Xiong</i>	
Construction and Strategies in IoT Security System	1129
<i>Quandeng Gou, Lianshan Yan, Yihe Liu, and Yao Li</i>	
Fuzzy Double-Threshold Track Association Algorithm Using Adaptive Threshold in Distributed Multisensor-Multitarget Tracking Systems	1133
<i>Wei Du, Huansheng Ning, Yuan Wei, and Jun Wang</i>	
An Intelligent System for Precast Concrete Element Manufacturing Management Based on RFID Technology	1138
<i>Hu Min and Lu Junyu</i>	
Data Management for Internet of Things: Challenges, Approaches and Opportunities	1144
<i>Meng Ma, Ping Wang, and Chao-Hsien Chu</i>	
Residential Energy Management in Smart Grid: A Markov Decision Process-Based Approach	1152
<i>Sudip Misra, Ayan Mondal, Shukla Banik, Manas Khatua, Samaresh Bera, and Mohammad S. Obaidat</i>	
A Space-Time with Weight Algorithm for RFID Data Interpolation	1158
<i>Ming Ke, Xin Wang, Jianxin Tang, and Xuhui Chen</i>	
Integration of Smart Sensor Networks into Internet of Things: Challenges and Applications	1162
<i>Dan Partyński and Simon G.M. Koo</i>	

Integrating Context-Awareness and Trustworthiness in IoT Descriptions	1168
<i>Kaiyu Wan and Vangalur Alagar</i>	
Building Smart M2M Applications Using the WuKong Profile Framework	1175
<i>Kwei-Jay Lin, Neils Reijers, Yu-Chung Wang, Chi-Sheng Shih, and Jane Y. Hsu</i>	
A Human Trajectory Estimate Based on Individual Mobility Pattern Library	1181
<i>Yang Yang, Bowen Du, and Xiao Jiang</i>	
The Research on Monitoring of Discrete Manufacturing Process Based on Internet of Things	1186
<i>Liuyin Yuan, Yu Guo, Jiajun Jiang, and Liyun Nian</i>	
Research on the Framework of Internet of Things in Manufacturing for Aircraft Large Components Assembly Site	1192
<i>Jihong Liu and Jie Yu</i>	
Technical State Monitoring and Evaluation of Aerospace Product Manufacturing Workshop Based on Internet of Things	1197
<i>Jihong Liu and Wenting Xu</i>	
Temperature Map Recovery Based on Compressive Sensing for Large-Scale Wireless Sensor Networks	1202
<i>Xuanxuan Wu, Cheng-Long Chuang, and Joe-Air Jiang</i>	
Interoperability Repository System for the Internet-of-Things	1207
<i>Pedro Maló, Tiago Teixeira, Bruno Almeida, and Márcio Mateus</i>	
Discussion on Key Technologies in Forestry Fundamental Scientific Information Cloud Service Platform	1216
<i>Mubo Zhang, Zhongming Li, and Fan Li</i>	

Symposium on Frontiers of Cyber-Physical-Social Computing (SymCPS)

Leveraging Social Network APIs for Enhancing Smartphone Apps: An Example of VoIP App	1219
<i>Shuchih Ernest Chang and Pin-Fan Lee</i>	
Extending and Recompiling AADL for CPS Modeling	1225
<i>Zhonghao Sun and Xingshe Zhou</i>	
A Novel Frequency Hopping Scheme Based on Cognitive Radio for Aircraft	1231
<i>Lei Zhidong and Zhang Xiaolin</i>	
Modeling Effects of Physical Factors on Controller Area Network in Cyber-physical Systems	1237
<i>Bo Shen, Xingshe Zhou, and Ru Wang</i>	
Detecting Flu Transmission by Social Sensor in China	1242
<i>Jiangmiao Huang, Hui Zhao, and Jie Zhang</i>	
A Smart Cyber-physical Systems-Based Solution for Pest Control (Work in Progress)	1248
<i>Farhad Mehdipour, Krishna Chaitanya Nunna, and Kazuaki J. Murakami</i>	

A Hybrid Content-Based Filtering Approach: Recommending Microbloggers for Web-Based Communities	1254
Kejun Dong and Yi Shen	
Just-in-Time Social Cloud: Computational Social Platform to Guide People's Just-in-Time Decisions	1259
Kwan Hong Lee, Andrew Lippman, Alex S. Pentland, and Pattie Maes	
Towards a Hybrid Approach of Primitive Cognitive Network Process and K-Means Clustering for Social Network Analysis	1267
Chun Guan and Kevin Kam Fung Yuen	
A Compressive Sensing Based Secure Data Transmission Scheme	1272
Guorui Li and Ying Wang	
An IO Optimized Data Access Method in Distributed Key-Value Storage System	1276
Li Chao, Wu Guangjun, Wang Shupeng, and Li Yixi	
We Know What You Are-- A User Classification Based on Mobile Data	1282
Duan Hu, Fei Sun, Lai Tu, and Benxiong Huang	
Efficient Security Solution for Information-centric Networking	1290
Hasen Nicanfar, Peyman TalebiFard, Chunsheng Zhu, and Victor C.M. Leung	
Towards Dynamic Resource Provisioning for Traffic Mining Service Cloud	1296
Jianjun Yu and Tongyu Zhu	
Leading Users Detecting Model in Professional Community Question Answering Services	1302
Siqi Song, Ye Tian, Wenwen Han, Xirong Que, and Wendong Wang	
A Moving Foreground Expansion Method Based on the Gaussian Distribution	1308
Yanhua Li, Wei Li, and Qi Xiang	
A Hybrid Emotion Recognition on Android Smart Phones	1313
Weishan Zhang, Xin Meng, Qinghua Lu, Yuan Rao, and Jiehan Zhou	
Multi-view Approach for Modeling Aerospace Cyber-physical Systems	1319
Lichen Zhang	
EigenCrime: An Algorithm for Criminal Network Mining Based on Trusted Computing	1325
Shujun Cai, Jiangnan Xia, Keyi Sun, and Zhen Wang	
A Task-Attribute-Based Workflow Access Control Model	1330
Yi Liu, Ke Xu, and Junde Song	
GreenBicycling: A Smartphone-Based Public Bicycle Sharing System for Healthy Life	1335
Yifan Zhao, Longbiao Chen, Chao Teng, Shijian Li, and Gang Pan	
Multi-step Sensor Scheduling for Energy-Efficient High-Accuracy Collaborative Target Tracking in Wireless Sensor Networks	1341
Biao Song, Wendong Xiao, and Zhaojun Zhang	

International Workshop on Vehicular Sensor and Ad-Hoc Networks (VeSAN 2013)

Toward Optimal Additive Noise Distribution for Privacy Protection in Mobile Statistics	
Aggregation	1346
<i>Hao Zhang, Yonggang Wen, Honggang Hu, and Nenghai Yu</i>	
Performance Analysis of a Hierarchical Structured VANET	1352
<i>Wanting Zhu, Qing Zhang, and A.C.M. Fong</i>	
Multilevel Cluster-Based Information Fusion in Vehicle Ad Hoc Networks	1357
<i>Weicheng Zhao, Linjuan Zhang, Wanting Zhu, and Yanqi Zhao</i>	
PSFCS: Robust Emergency Communications Supporting High-Mobility Based on WiMAX MMR Networks	1363
<i>Wen-Kang Jia, Chia-Yao Chen, and Yaw-Chung Chen</i>	

International Workshop on Next Topics for Green Communications and Computing (GreenCom-Next 2013)

On Energy Efficiency Data Access and Backup for Cloud Computing Networks	1369
<i>Yeanf-Fu Wen</i>	
A Model to Analyze the Energy Savings of Base Station Sleep Mode in LTE HetNets	1375
<i>Paolo Dini, Marco Miozzo, Nicola Bui, and Nicola Baldo</i>	
Soft Timing Synchronization Algorithm for CPM Signals	1381
<i>Xiangchao Zhou, Rui Xue, Danfeng Zhao, and Fu Fang</i>	
Secure Framework for the Return Routability Procedure in MIPv6	1386
<i>Faisal Al Hawi, Chan Yeob Yeun, and Khaled Salah</i>	
An Energy Efficient Cache Design for Multi-core Processors	1392
<i>Cao Xiangrong and Zhang Xiaolin</i>	
Analysis Method of Energy for C Source Program and Its Application	1397
<i>Yang Yuechuan, Zeng Guosun, Ding Chunling, and Wang Wei</i>	
Simulating Stochastic Activation Functions	1403
<i>Hanno Hildmann, Sebastien Nicolas, and Fabrice Saffre</i>	
Power-Efficient Virtual Machine Placement and Migration in Data Centers	1408
<i>Shuo Fang, Renuga Kanagavelu, Bu-Sung Lee, Chuan Heng Foh, and Khin Mi Mi Aung</i>	
Probabilistic Modeling during Power Estimation for Mixed Polarity Reed-Muller Logic Circuits	1414
<i>Xiang Wang, Ying Lu, Yi Zhang, Zexi Zhao, Tongsheng Xia, Jishun Cui, and Limin Xiao</i>	
Ant-Colony Based Heuristics to Minimize Power and Delay in the Internet	1419
<i>Shankar Raman, Gaurav Raina, Hanno Hildmann, and Fabrice Saffre</i>	
Materialization of a Comprehensive Digital City with CityMaker and ArcGIS	1424
<i>Mingzhu Deng, Guangming Liu, and Yuran Hu</i>	

iThings/CPSCom 2013 Workshops

International Workshop on Biometric Recognition and Its Applications (BR&A 2013)

A New Method of Designing High-Power Electroplating Power Supply	1429
<i>Yihong He and Shuiyong Yu</i>	
The Study of Fusion Image Block and Sparse Representation Classification in Disguised Face Recognition	1434
<i>Gan Junying, Liu Dan, Zeng Junying, and Tian fengxia</i>	
SMT Components Model Inspection Based on Characters Image Matching and Verification	1438
<i>Bing Luo, Yuehua Gao, Zhongyu Sun, and Sufang Zhao</i>	
The Manipulation of Chaotic Synchronization Quality Based on VCSEL with Optical Feedback	1442
<i>Dongzhou Zhong</i>	
Fast Wavelet Thresholding Algorithms for Face Image Inpainting	1445
<i>Yibin Yu, Jinguo Cao, Yaofang Tang, and JunYing Gan</i>	
Multispectral Palmprint Recognition Using Score-Level Fusion	1450
<i>Yibin Yu, Yaofang Tang, Jinguo Cao, and JunYing Gan</i>	
Encryption Node Design in Internet of Things Based on Fingerprint Features and CC2530	1454
<i>Zeng Bohan, Wang Xu, Zhou Kaili, and Zhao Xueyuan</i>	
Facial Expression Recognition Based on Local Binary Pattern and Gradient Directional Pattern	1458
<i>Wenjin Chu</i>	
Design of Intelligent Inducing Switch	1463
<i>Yang Zhao and Fengxia Tian</i>	

International Workshop on Cyber Physical Society Information Processing (CPSIP 2013)

Identify Online Fraudster with Extended Cellular Automata	1467
<i>Ji Li and Yueliang Xiao</i>	
Harmonization of Cyber-physical Society	1473
<i>Alexander Abramovich and Rashid Khunagov</i>	
Influence Analyzing and Modeling of High Frequency Forwarding Microblogs	1479
<i>Shangbo Zhou, Wei Wang, Jie Luo, Li Wan, and Yao Zhang</i>	
Requirement Specification for Transportation Cyber Physical Systems	1486
<i>Lichen Zhang</i>	
Integration-Oriented Modeling of Cyber-physical Interactive Process	1492
<i>Tao Guan and Gang Yang</i>	

Web-of-Things Framework for WeChat	1496
<i>Huang Yitong, Lai Xiaozheng, Dai Bingpei, and Chen Qinyi</i>	

International Workshop on Cyberspace Security and Information Countermeasures (CS&IC 2013)

Simulation Experiment Research of Cyberspace Confront Effectiveness Evaluation	1501
<i>Yu Zhang, Chen Shansong, and Xie Deping</i>	
Technology of Situation Awareness Based on Radar Network in Cyberspace	1505
<i>Xun Yang, Wei Shan, and Liu Jia</i>	
Space Information Security and Cyberspace Defense Technology	1509
<i>Su Kang, Dong Qiaozhong, and Zhu WeiQiang</i>	

International Workshop on Connected Vehicles and Vehicular Networks (CV2N 2013)

Real-Time Vehicle Route Guidance Based on Connected Vehicles	1512
<i>Dixin Tian, Yong Yuan, Jianshan Zhou, Yunpeng Wang, Guangquan Lu, and Haiying Xia</i>	
A Novel Two-Timer-Based Broadcast Routing Algorithm for Vehicular Ad-Hoc Networks	1518
<i>Song Fang and Tao Luo</i>	
Research of Vehicle Counting Based on DBSCAN in Video Analysis	1523
<i>Dayang Sun, Binbin Li, and Zhihong Qian</i>	
A Self-Adaptive V2V Communication System with DSRC	1528
<i>Dixin Tian, Hao Luo, Jianshan Zhou, Yunpeng Wang, Guizhen Yu, and Haiying Xia</i>	

International Workshop on Electromagnetic Characteristics of Target and Environment (ECTE 2013)

SAR Segmentation and Recognition Based SCM	1533
<i>Liping Hu and Xiaoyu Xing</i>	
EM Scattering Analysis of Complex Target Coated with Plasma by Conformal SO-FDTD Method	1538
<i>Hao-Chuan Deng, Xiao Wei, and Hong-Cheng Yin</i>	
SAR RAW Data Simulation by Electromagnetic Computation in Frequency Domain	1542
<i>Xupu Geng, Chunzhu Dong, Hongcheng Yin, and Guoqing Zhu</i>	
Precession and Structural Parameters Estimation of the Cone-Shaped Target Based on the Profile Length	1545
<i>Jing Huang, Chao Ning, and Zhihe Xiao</i>	
Terahertz Gaussian Beam Scattering by a Conducting Sphere	1550
<i>Liangsheng Li and Hongcheng Yin</i>	
Reshaped Window Iterative Super-Resolution Imaging Algorithm	1554
<i>Sheng Li, Liangsheng Li, and Hongcheng Yin</i>	
Study on the influential factors of radar target RCS in resonance region	1557
<i>Liang Man, Xiao Wei, and Zhihe Xiao</i>	

A New Method for Estimating Radar Profile Length of a Cone Target	1561
<i>Chao Ning, Jing Huang, Chao Gao, and Yong Zhu</i>	
The Feature Extraction of Time-Frequency Image Based on Frequency Diversity	1566
<i>Jing Sheng, Zhihe Xiao, and Jing Huang</i>	
Characteristic Study of Target Micro-motion Based on the Wavelet Analysis	1571
<i>Yuguang Tian, Chao Ning, and Xiangyang Zhang</i>	
The Decorrelation Time Accumulation Restrain Method for Sea Clutter Spike	1576
<i>Xujin Yuan, Yong Chen, Chao Wang, and Hongcheng Yin</i>	
The Radar Echo Simulation of Moving Targets Based on HRRP	1580
<i>Tao Zhao, Chun-Zhu Dong, Hong-Mei Ren, and Hong-Cheng Yin</i>	
A Novel Method for Generating Planar Wave Based on Dielectric Gratings	1584
<i>Dai Fei, Cheng Qiping, and Yue Hui</i>	
Application of Terahertz Technology on RCS Measurement	1587
<i>Wang Xiaobing, Huang Xin, Wu Yajun, Dai Fei, and Li Li</i>	
Typical Target RCS Reduction Using Structural Radar Absorbing Material	1591
<i>Yongfeng Wang and Kainan Qi</i>	

International Workshop on Electromagnetic Detection and Identification (EDI 2013)

Error Analysis in Calculating RCS Using GRECO Method	1594
<i>Zhi Hua Cheng, Yong Jun Xie, Xue Mei Wang, Yu Ru Mao, and Xiao Dong Ma</i>	
Placement Optimization of Vehicular Antenna Using Particle Swarm Optimization	1597
<i>Yu-Ru Mao, Yong-Jun Xie, Zhi-Hua Cheng, Xue-Mei Wang, and Xiao-Dong Ma</i>	
A Novel Loss Compensated Multipath Power Divider for Frequency Synthesizer	1600
<i>Tongfei Yu, Jungang Miao, Yan Xie, Baohua Yang, and Xianxun Yao</i>	
An Approach for Extrapolating Far Field Radar Cross-Section from Near Field Measurement	1604
<i>Gao Chao, Yuan Xiaofeng, and Bai Yang</i>	
Implementation of the Digital Correlation Unit for Synthetic Aperture Interferometric Radiometer	1608
<i>Xianxun Yao, Cheng Zheng, Baohua Yang, Jin Zhang, and Jungang Miao</i>	
Design Procedures and Considerations of FOD Detection Millimeter-Wave FMCW Radar	1612
<i>Jin Zhang, Cheng Zheng, Baohua Yang, Xianxun Yao, and Jungang Miao</i>	
Exact Design of a Ka Band H-Plane Inductance Diaphragm Waveguide Band-Pass Filter	1618
<i>Yong Fu, Baohua Yang, and Jungang Miao</i>	
The Compact Microstrip Bandstop Filter Using Equal Width Open Stub	1622
<i>Bao-Hua Yang, Ghulam Mehdi, Jin Zhang, Tong-fei Yu, Xian-xun Yao, and Jungang Miao</i>	

The Design and Simulation of Hardware Architecture of the Fast and On-Site Assessing System of Scattering Characteristics of Stealth Aircraft Based on Simulink	1626
<i>Hong Tao and Song Dan</i>	

Second International Workshop on Engineering Pervasive Service Systems (EPS 2013)

Food Image Recognition Using Pervasive Cloud Computing	1631
<i>Pengcheng Duan, Wenshan Wang, Weishan Zhang, Faming Gong, Peiying Zhang, and Yuan Rao</i>	
An Approach of Semantic Similarity by Combining HowNet and Cilin	1638
<i>Peiying Zhang, Zhanshan Zhang, and Weishan Zhang</i>	
Reconstruction of 3D Maps for 2D Satellite Images	1644
<i>Lianzhang Zhu, Xuexing Zheng, and Pengfei Li</i>	
Component-Based Cloud Computing Service Architecture for Measurement System	1650
<i>Chao Liu, Qingsong Yu, Tianao Zhang, and Zhongwen Guo</i>	

Second International Workshop on Energy and Wireless Sensors (e-WiSe 2013)

Design Optimization of Electromagnetic MEMS Energy Harvester with Serpentine Coil	1656
<i>Yuji Tanaka, Takayuki Fujita, Tatsuya Kotoge, Kohei Yamaguchi, Koji Sonoda, Kensuke Kanda, and Kazusuke Maenaka</i>	
Experimental Study of a Passive Impedance Matching Interface Based on a Centimeter-Size High Inductance Coil for Practically Enhanced Piezoelectric Energy Harvester Performance at Low Frequency	1659
<i>Alessandro Giuliano and Meiling Zhu</i>	
SPICE Modeling of Piezoelectric Energy Harvesting Device Utilizing Stress Influence	1662
<i>Koji Sonoda, Takayuki Fujita, Kensuke Kanda, Kazusuke Maenaka, Hidenori Katsumura, Masaya Tamura, and Hiroshi Kagata</i>	
Modeling, Validation and Design Analyses of a Piezoelectric Cymbal Transducer for Non-resonant Energy Harvesting	1665
<i>Alice Daniels, Alessandro Giuliano, Meiling Zhu, and Ashutosh Tiwari</i>	
Towards Energy Autonomy of Wireless Sensors in Aeronautics Applications: SMARTER Collaborative Project	1668
<i>Marise Bafleur and Jean-Marie Dilhac</i>	

International Workshop on Gas Sensors and Gas-Sensing Platforms (GS&GSP 2013)

A Novel Surface Acoustic Wave Sensor for Optical Lens Surface Dirt Detection	1673
<i>Jiuling Liu, Minghua Liu, Wen Wang, and Shitang He</i>	
Electrical Sensing Characteristics of Pseudo-LFE Sensors with Different Single Crystals	1676
<i>Zhitian Zhang, Chao Zhang, Wenyang Wang, Yan Liu, and Tingfeng Ma</i>	
Investigation of Polymer-Coated Film Bulk Acoustic Wave Resonator for Acetone Vapor Detection	1680
<i>Jingjing Wang and Da Chen</i>	
Polyaniline-Coated Surface Acoustic Wave Sensor for Humidity Detection	1685
<i>Xiao Xie, Wen Wang, Shitang He, Ning Mu, and Yong Pan</i>	
Effect of Facets of α - Fe ₂ O ₃ Nanostructures on Gas-Sensing Performance	1688
<i>Jing Wang, Xiaoman Zhang, Weihong Xu, Liang Chen, Xingjiu Huang, and Jinhuai Liu</i>	
Application and Development Trend of Gas Sensing Technology Based on Absorption Spectroscopy	1692
<i>Zhenzhen Zhao, Fengchun Tian, and Shouqiong Liu</i>	
Identification of Toxic VOC Pollutants Using FAIMS	1698
<i>Youjiang Liu, Lehua Zhang, Hongwei Wang, Xiaotian Zhang, Chilai Chen, Huanqin Wang, Deyi Kong, Mario A. Chavarria, and Juergen Brugger</i>	
Detection of benzene series by two-dimensional FAIMS technique	1702
<i>Lehua Zhang, Youjiang Liu, Hongwei Wang, Chilai Chen, Huanqin Wang, Deyi Kong, Xiaotian Zhang, Mario Chavarria, and Juergen Brugger</i>	
Fabrication of Prototypal Nanomechanical Resonator Based on a Single Copper Nanowire	1706
<i>Weihong Xu and Li-Feng Ge</i>	
The SAW Gas Chromatograph and Its Applications in the Public Security	1710
<i>Shitang He, Jiuling Liu, and Minghua Liu</i>	
Theory of Lamb Wave Transducers and Their Applications for Gas and Liquid Sensing	1714
<i>Li-Feng Ge</i>	
Study of the Space Station On-Orbit Leak Detection Based on the Differential Pressure Gas Sensor	1718
<i>Wei Sun, Rongxin Yan, Lichen Sun, Donghui Meng, Zheng Li, Haitao Guo, and Wenbin Li</i>	

International Workshop on Human Body Communications and Biomedical Signal Processing (HBC&BSP 2013)

Pulse-Output Monitor Genetic Circuit of Breast Cancer Testing	1722
<i>Xiang Wang, Guangqian Yuan, Xun Wang, and Zexi Zhao</i>	
Elderly Gait Analysis and Assessment Based on Body Area Network	1729
<i>Y.D.Xuan, Z. Zhao, Z. Fang, Z.H.Xu, F.M.Sun, D.L.Chen, L.D.Du, Y.M.Qian, H.Y.Hu, and L.L.Tian</i>	
Combined Motion and Region-Based 3D Tracking in Active Depth Image Sequence	1734
<i>Xingyu Wu, Xia Mao, Lijiang Chen, and Angelo Compare</i>	
Characteristic Optimization of Multilayer Dielectric for the Bloch-Surface-Wave Based Sensor	1740
<i>Shuna Li, Jiansheng Liu, Zheng Zheng, Yuhang Wan, Weijing Kong, Sun Yu, and Shuna Li</i>	
Facial Expression Recognition Based on t-SNE and AdaboostM2	1744
<i>Jizheng Yi, Xia Mao, Yuli Xue, and Angelo Compare</i>	
A Design of Security Module to Protect Program Execution in Embedded System	1750
<i>Wang Xiang, Zhao Zexi, Lu Ying, and Zhang Yi</i>	
Improved P-T Algorithm Applied to a Wearable Integrated Physiological Parameters System	1756
<i>Z.H.Xu, Z. Fang, Z. Zhao, X.X.Chen, D.L.Chen, F.M.Sun, L.D.Du, Y.M.Qian, H.Y.Hui, and L.L.Tian</i>	
Iterative Threshold Selection for TOA Estimation of IR-UWB System	1763
<i>Xiang Wang, Bo Yin, Ying Lu, Bin Xu, Pei Du, and Limin Xiao</i>	
A Novel Alternative Exponent-Weighted Fuzzy C-Means Algorithm	1767
<i>Renhai Fan, Xiang Wang, and Jordi Madrenas</i>	
A Wireless ZigBee Router with P-H-T Sensing for Health Monitoring	1773
<i>Z. Fang, F. M. Sun, J. Tan, and Z. Zhao</i>	
A Whole Integrated System for Detection of Neural Signal and Wireless Transmission	1779
<i>Dang Hua, Qu Ruoyuan, Chen Zhiming, Gui Xiaoyan, and Wang Xinghua</i>	
Research on the Monitoring and Controlling Model of SIP Network	1784
<i>Liang Zhang, Zhaoxin Zhang, Xu Cui, and Dan Liu</i>	
Saliency-Based Feature Learning for No-Reference Image Quality Assessment	1790
<i>Zhang Hong, Feng Ren, and Yuan Ding</i>	
A Compensated Technique for 2.5-GHz Ring-Oscillator-Based PLL used in Wireless Transmission	1795
<i>Dang Hua, Liu Zicheng, Gui Xiaoyan, and Zhong Shunan</i>	
Speech Synthesis Research Based on EGG	1799
<i>Lijiang Chen, Xia Mao, Pengfei Wei, and Angelo Compare</i>	
A Temperature Insensitive Ring Oscillator for Low Power RF Communications	1804
<i>Pilong Yang, Tongsheng Xia, Hongge Li, and Xiang Wang</i>	

Low-Noise Biopotential Recording Circuit with Correlated Timeshare Sampling	1810
<i>Hongge Li and Weidong Cao</i>	
A No-Reference Quality Metric for Blur Image	1813
<i>Zhang Taojia, Zhang Hong, and Yuan Ding</i>	
Circuit Design of Analog Front-End for Neural Signal Detection	1817
<i>Dang Hua, Zhang Lei, Chen Zhiming, Gui Xiaoyan, and Wang Xinghua</i>	
A New Pedestrian Detect Method in Crowded Scenes	1820
<i>Hou Xin, Zhang Hong, and Yuan Ding</i>	
Design and Implementation of a Circuit System for Neural Signal Detection	1825
<i>Dang Hua, Li Xiao, Chen Zhiming, Gui Xiaoyan, Wang Xinghua, and Zhong Shunan</i>	
Design and Implementation of a CMOS 1GspS 5bit Flash ADC with Offset Calibration	1829
<i>Li Shiwen, Dang Hua, Gao Peng, Gui Xiaoyan, Chen Zhiming, Wang Xinghua, and Zhong Shunan</i>	
Spike Detection Based on Fractal Dimension	1834
<i>Zhou Jiyang, Xu Shengwei, Lin Nansen, Wang Mixia, and Cai Xinxia</i>	
A GPU-Accelerated Large-Scale Music Similarity Retrieval Method	1839
<i>Limin Xiao, Yao Zheng, Wenqi Tang, Guangchao Yao, Li Ruan, and Xiang Wang</i>	
Power Spectral Analysis of Acupoint Bioelectricity	1844
<i>Quan Zhou, Nansen Lin, Shuping Gai, Jingjing Zhang, Lu Zhang, Wentao Shi, Renhuan Yu, and Xinxia Cai</i>	
Compressive Sensing of Neural Action Potentials by Designing Overcomplete Dictionaries	1848
<i>Shuai Zhou, Bowei Dai, Yin Xiang, Shengwei Xu, Bingchen Zhang, Yilin Song, Mixia Wang, and Xinxia Cai</i>	
CloudDVMM: Distributed Virtual Machine Monitor for Cloud Computing	1853
<i>Li Ruan, Jinbin Peng, Limin Xiao, and Xiang Wang</i>	
Metadata-Intensive I/O Performance Optimization by Merging Read/Write Requests	1859
<i>Li Ruan, Qimeng Wu, Limin Xiao, Ke Xie, and Xiang Wang</i>	

International Workshop on Machine-to-Machine Communication (IWMMC 2013)

Angle of Arrival Estimation for Passive UHF RFID Tag Backscatter Signal	1865
<i>Meng-Chang Hua, Guo-Chen Peng, Yan-Jun Lai, and Hsin-Chin Liu</i>	
Mobile IMS Integration of the Internet of Things in Ecosystem	1870
<i>Han-Chuan Hsieh, Jiann-Liang Chen, Ing-Yi Chen, and Sy-Yen Kuo</i>	
Design of Gateway for Monitoring System in IoT Networks	1876
<i>Ji-De Huang and Han-Chuan Hsieh</i>	
Dependable Architecture of RFID Middleware on Networked RFID Systems	1881
<i>Yung-Li Hu, Wei-Bing Su, Yennun Huang, Ing-Yi Chen, and Sy-Yen Kuo</i>	

The Design and Implementation of the Front-End Software for the Telemetry and Telecontrol System of Satellite	1885
--	------

Zhao Qi and Ma Li

Internet of Things for Special Materials Transportation Vehicles	1891
--	------

Li Shengguang, Tan Lin, Zhu Yuanshuo, and Zhang Rucai

Performance Analysis of COMPASS for the Asia-Pacific Region	1895
---	------

Hangyu Huo, Xiaolin Zhang, and Canhui Chen

International Workshop on Localization Technology and Location-Based Services (LTLS 2013)

A KNN Indoor Positioning Algorithm That Is Weighted by the Membership of Fuzzy Set	1899
--	------

Jiankun Yu and Jianye Liu

Building Location-Based Service Based on Social Network API: An Example of Check-In App	1904
--	------

Pin-Fan Lee and Shuchih Ernest Chang

Prioritizing the Data in the Target-Tracking Wireless Sensor Networks	1910
---	------

Dan Xu, Xiaojiang Chen, Xiaoyan Yin, Lvju Wang, Hao Chen, Yuan Zhang, and Dingyi Fang

DLF: Target Detection and Localization in Wireless Network	1916
--	------

Tianzhang Xing, Dingyi Fang, Xiaojiang Chen, Liqiong Chang, and Yuhui Ren

Bandwidth Reservation for Target Tracking in Region-Base Wireless Sensor Networks	1922
---	------

Xiaoyan Yin, Dingyi Fang, Xiaojiang Chen, Hao Chen, and Wei Wei

Fusion Estimation Based on UKF for Indoor RFID Tracking	1928
---	------

Xue-bo Jin

International Workshop on New Media and Computer Vision for Smart City (NMCV4SC 2013)

Facile Analysis of Smartphone Comics	1932
--	------

Beili Qiu

Research on Production of Regional Animation Style Based on Computer Graphic Rendering	1935
---	------

Jingjing Chen, Yi Lin, Kexuan Ma, and Yue Liu

A Blind Demodulation Algorithm for MFSK Signals Using STFT-Radon-Wavelet Transform	1940
---	------

Zhang Guoyi, Qi Xinglong, Zhang Xuzhou, and Lin Caiyong

A Novel Method to Remove Eye-Blink Artifacts Based on Correlation Using ICA	1946
---	------

Hengsong Sheng and Hongjun Tian

Virtual Assembly, Maintenance and Training System Based on the Virtual - Real Fusion Technology	1949
--	------

Ning Wang and Yue Qi

International Workshop on Optical Characteristics and Applications (OC&A 2013)

A New Infrared Sensor Model Based on Imaging System Test Parameter	1953
<i>Zheng Liu, Hong-xia Mao, Ying-hong Dai, and Jing-li Wu</i>	
Mixed Norm-Based Image Restoration Using Neural Network	1957
<i>Yuan-nan Xu, Jing Wang, and Yan-bing Dong</i>	
Simulation and Analysis of Turbulent Optical Wavefront Based on Zernike Polynomials	1962
<i>Yan Chen, Shu-hua Wang, Yuan-nan Xu, and Yan-bing Dong</i>	
Study on the Interaction of Optical Field and Transverse Acoustic Mode in Silicon	
Optical Fibers	1967
<i>Jing Wang, Yuan-nan Xu, and Yan-bing Dong</i>	
Testing Technology of Infrared Point Source Target Optical Axis	1972
<i>Yue Peng and Hao Lu</i>	
Human Segmentation in Infrared Videos Using Markov Random Field	1976
<i>Wenjia Yang, Xiaodan Xie, Zhi Chai, and Yapeng Li</i>	

Third IEEE International Workshop on Sensing, Networking and Computing with Smartphones (PhoneCom 2013)

SmartProbe: A Bottleneck Capacity Estimation Tool for Smartphones	1980
<i>Francesco Disperati, Dario Grassini, Enrico Gregori, Alessandro Imrota, Luciano Lenzini, Davide Pellegrino, and Nilo Redini</i>	
CANDIS: Heterogenous Mobile Cloud Framework and Energy Cost-Aware Scheduling	1986
<i>Sebastian Schildt, Felix Büsching, Enrico Jörns, and Lars Wolf</i>	
An Experimental Study on Wireless Magnetic Communication with Smart Phone Using a MEMS Magnetometer	1992
<i>Jiabo Wang and Xi Chen</i>	
PhoneJoule: An Energy Management System for Android-Based Smartphones	1996
<i>Xiaojing Liu, Fangwei Ding, Jie Li, Haifeng Liu, Zhuo Yang, Juan Chen, and Feng Xia</i>	
KeyGraph-Based Social Network Generation for Mobile Context Sharing	2002
<i>Myeong-Chun Lee, Young-Seol Lee, and Sung-Bae Cho</i>	
Cyber-physical Directory: A Dynamic Visualization of Social Media Data	2007
<i>Jean-Loup Lamothe, James She, and Ming Cheung</i>	

International Workshop on Sensor Data Processing and Integration (SDPI 2013)

Capturing, Calculating, and Disseminating Real-Time CO ₂ Emissions and CO ₂ Flux Measurements via Twitter in a Smart City	2013
<i>Laurie Butgereit and Alecia Nickless</i>	
Freshness-Aware Sensor Mashups Based on Data Services	2018
<i>Guiling Wang and Feng Zhang</i>	
A Method of Sensor Data Services Query in Emergency Management	2024
<i>Xin Chen, Yanbo Han, Yongshan Wei, Feng Zhang, and Yan Wen</i>	
A Sensory-Data-Hosting Oriented Scheduling Strategy on Virtual Machine	2029
<i>Xiang Li and Yong Jiang</i>	

International Workshop on Software Engineering for Internet of Things-Based Applications (Selota 2013)

From the Internet of Things to Trusted Apps for Things	2037
<i>Christian Prehofer</i>	
A Profile for Step Data Transmission Based on Bluetooth Low Energy	2043
<i>Youcong Ni, Sun Cong, Zhao Ting, Peng Ye, Chunyan Wang, and Luo Zeng</i>	
Exception Handling in Service-Oriented Software: A Survey	2048
<i>Xue Tong, Ying Shi, and Wu Qing</i>	
On the Application of the Internet of Things in the Field of Medical and Health Care	2053
<i>Fang Hu, Dan Xie, and Shaowu Shen</i>	
Hierarchical RBAC Model with Alpha Factor in the Water Supply Pipeline Network Information System	2059
<i>Wu Ting, Yuan Tianliang, and Yu Long</i>	
Modeling Concern of Online Auction System with SA-CDL	2063
<i>Linlin Zhang, Kai Zhao, Zhenhong Jia, and Youcong Ni</i>	
The Research on Interactive Exhibition Technology of Digital Museum Resources	2067
<i>Ning Wang and Xukun Shen</i>	

International Workshop on Sensor Networks and Data Communications Security (SNDCS 2013)

Integrity Protection and Attestation of Security Critical Executions on Virtualized Platform in Cloud Computing Environment	2071
<i>Bingyu Zou and Huanguo Zhang</i>	
A Fuzzing Framework Based on Symbolic Execution and Combinatorial Testing	2076
<i>Jian Yang, Huanguo Zhang, and Jianming Fu</i>	
Dynamic Knowledge Repository-Based Security Auxiliary System of User Behavior	2081
<i>Fan Yang, Jinxia Wu, Shanyu Tang, and Huanguo Zhang</i>	

Research on a New Mathematic Description for Fingerprint Identification	2085
<i>Zhao Ma, Shanyu Tang, Liping Zhang, Linchen Yu, and Sifa Zhang</i>	
Robust and Efficient Authentication Protocol Based on Elliptic Curve Cryptography for Smart Grids	2089
<i>Liping Zhang, Shanyu Tang, Yijing Jiang, and Zhao Ma</i>	
De Bruijn Graph-Based Whole-Genomic Sequence Assembly Algorithms and Applications	2094
<i>Xiaojun Kang, Shanyu Tang, Yongge Ma, Ruixiang Liu, and Yaping Wang</i>	
Review of Digital Watermarking for 2D-Vector Map	2098
<i>Jinxia Wu, Fan Yang, and Chonglong Wu</i>	
Real-Time Covert VoIP Communications over Smart Grids by Using AES-Based Audio Steganography	2102
<i>Yijing Jiang, Liping Zhang, Shanyu Tang, and Zhangbing Zhou</i>	
Improving Performance of E-Government System from the User Perspective	2108
<i>Hang Zhang, Sifa Zhang, Muzhou Xiong, and Shanyu Tang</i>	
ECC-Based Authenticated Key Agreement Protocol with Privacy Protection for VoIP Communications	2114
<i>Shaohui Zhu, Fan Yang, Liping Zhang, Shanyu Tang, and J. Li</i>	
Establishment of Security Levels in Trusted Cloud Computing Platforms	2119
<i>Fan Yang, Li Pan, Muzhou Xiong, and Shanyu Tang</i>	
Efficient Divisible E-Cash in the Standard Model	2123
<i>Jiangxiao Zhang, Zhoujun Li, Hua Guo, and Chang Xu</i>	

International Workshop on Secure Smart Objects (SSO 2013)

Towards a Modular and Lightweight Model for Android Development Platforms	2129
<i>Mussab Zneika, Hasan Loulou, Fatiha Houacine, and Samia Bouzefrane</i>	
Towards a Secure Identity Management in Smartphone Environments	2133
<i>Maryline Laurent, Samia Bouzefrane, and Christophe Kiennert</i>	

Third International Workshop on Trends and Future of Web Science (TFWS 2013)

Extracting Protein Terminologies in Literatures	2136
<i>Jangwon Gim, Donald J. Kim, Myunggwon Hwang, Sa-kwang Song, Do-Heon Jeong, and Hanmin Jung</i>	
Author Name Disambiguation in Technology Trend Analysis Using SVM and Random Forests and Novel Topic Based Features	2141
<i>Sebastian Kastner, Sung-Pil Choi, and Hanmin Jung</i>	
Research on Quantum-Bit Error Correction Coding for Smart Grid Substation	2145
<i>Xin Miao and Xi Chen</i>	

Fourth International Workshop on Universal User Modeling and Applications (UUMA 2013)

The Research of MEICSP Model through a REST Web Service	2148
<i>Zhilei Huang, Lingyu Xu, and Yang Liu</i>	
A Text Association Rules Mining Method Based on Concept Algebra	2153
<i>Feiyue Ye, Jiannan Xiong, and Lingyu Xu</i>	
Research and Application of the Intelligent Flow	2159
<i>Yang Liu, Lingyu Xu, Liang Chen, and Fei Zhong</i>	
Application of Hybrid MPI+TBB Parallel Programming Model for Traveling Salesman Problem	2164
<i>Jinke Zhu and Qing Li</i>	
Data Deduplication Cluster Based on Similarity-Locality Approach	2168
<i>Xingyu Zhang and Jian Zhang</i>	
The Application of the Knowledge Representation Based on Concept Algebra in the Knowledge Management System of Petroleum Enterprise	2173
<i>Hongjie Duan, Shanpeng Wu, and Feiyue Ye</i>	
A New Reliable Hybrid Algorithm for Shortening the Expanding Range of Interval	2178
<i>Cheng Chen and Yongmei Lei</i>	
A Novel Data Encryption in HDFS	2183
<i>Thanh Cuong Nguyen, Wenfeng Shen, Jiwei Jiang, and Weimin Xu</i>	
The Dynamically Efficient Mechanism of HDFS Data Prefetching	2188
<i>Shaochun Wu, Guobing Zou, Honghao Zhu, Xiang Shuai, Liang Chen, and Bofeng Zhang</i>	
Multi-granularity Recommendation Based on Ontology User Model	2194
<i>Jianxing Zheng, Bofeng Zhang, and Guobing Zou</i>	
Friend Recommendation Based on the Similarity of Micro-blog User Model	2200
<i>Fan Tang, Bofeng Zhang, Jianxing Zheng, and Yajun Gu</i>	
The Research of Image Detail Enhancement Algorithm with Laplacian Pyramid	2205
<i>Yanwen Teng, Fuyan Liu, and Ruoyu Wu</i>	
Information Gain with Weight Based Decision Tree for the Employment Forecasting of Undergraduates	2210
<i>Yue Liu, Lingjie Hu, Fei Yan, and Bofeng Zhang</i>	
A User Model-Based Resource Scheduling Framework	2214
<i>Guannan Hu, Wenhao Zhu, Kangkang Niu, and Wu Zhang</i>	
A Novel Method of Adopting Graph Reduction for Resource Management in Parallel Computing Model	2218
<i>Shen Chao and Tong Weiqin</i>	
Sentiment Classification for Topical Chinese Microblog Based on Sentences' Relations	2221
<i>Kang Wu, Bofeng Zhang, Jianxing Zheng, and Haidong Yao</i>	
An Anomaly Intrusion Detection Method Based on PageRank Algorithm	2226
<i>Quan Qian, Jianyu Li, Jing Cai, Rui Zhang, and Mingjun Xin</i>	

Distributed File System and Classification for Small Images	2231
<i>Shaojian Zhuo, Xing Wu, Wu Zhang, Xing Wu, and Wanchun Dou</i>	
The Possibility of Normal Gait Analysis Based on a Smart Phone for Healthcare	2235
<i>Susu Jiang, Bofeng Zhang, Guobing Zou, and Daming Wei</i>	

IoT/CPS Demo and Exhibition

Mo-Fi: Discovering Human Presence Activity with Smartphones using Non-intrusive Wi-Fi Monitors	2241
<i>Weijun Qin, Hongsong Zhu, Jiadi Zhang, and Bo Li</i>	
Towards a Pervasive Cloud Computing Based Food Image Recognition	2243
<i>Wenshan Wang, Pengcheng Duan, Weishan Zhang, Faming Gong, Peiyi Zhang, and Yuan Rao</i>	
Wireless IoT Platform Based on SDR Technology	2245
<i>Yong Hua Lin, Qing Wang, Jun Song Wang, Ling Shao, and Jianbin Tang</i>	
Join the Workshop Better with Telepresence Capturer	2247
<i>Pin Tao, Lixin Feng, and Minxi Yu</i>	
InSciTe Adaptive: R&D Decision Support System for Strategic Foresight	2249
<i>Jangwon Gim, Do-Heon Jeong, Myunggwon Hwang, Sung-Pil Choi, Donald J. Kim, Seungwoo Lee, Sa-kwang Song, and Hanmin Jung</i>	

Author Index