

2009 Eighth IEEE International Conference on Dependable, Autonomic and Secure Computing

(DASC 2009)

**Chengdu, China
12-14 December 2009**



**IEEE Catalog Number: CFP09RMD-PRT
ISBN: 978-1-4244-5420-4**

2009 Eighth IEEE International Conference on Dependable, Autonomic and Secure Computing

DASC 2009

Table of Contents

- Message from the DASC 2009 Chairs**
 - DASC 2009 Organizing Committee**
 - DASC 2009 Program Committee**
 - Message from the PICom-09 Chairs**
 - PICom-09 Organizing Committee**
 - Message from the UbiSafe-09 Chairs**
 - UbiSafe-09 Organizing Committee**
 - Message from the Routing-09 Program Chairs**
 - Routing-09 Organizing Committee**
 - Message from the SocialNet-09 Program Chairs**
 - SocialNet-09 Organizing Committee**
 - Message from the ACI-09 Chairs**
 - ACI-09 Organizing Committee**
 - Message from the SCC-09 Chairs**
 - SCC-09 Organizing Committee**
 - Message from the RIPWASS-09 Chairs**
 - Message from the MMASN-09 Chairs**
 - MMASN-09 Organizing Committee**
 - Message from the SmarTel-09 General Chairs**
 - SmarTel-09 Organizing Committee**
 - Message from the IISHCI-09 Program Chairs**
 - IISHCI-09 Organizing Committee**
 - Message from the TMUPS-09 Program Chairs**
 - TMUPS-09 Organizing Committee**
-

The Eighth IEEE International Conference on Dependable, Autonomic and Secure Computing (DASC 2009)

Track 01: Theoretical Research and Algorithm

Adaptive Dimensioning of Cloud Data Centers	5
<i>Wenhong Tian</i>	
Formal Analysis of Fault Recovery in Self-Organizing Systems	11
<i>Jan Calta and Miroslaw Malek</i>	
Dependability Analysis for AADL Models by PVS	19
<i>Geng Chen, Lei Luo, Rong Gong, and Shenglin Gui</i>	
Behavioral Study of UNIX Commands in a Faulty Environment	25
<i>Cássio Martini Martins Pereira and Rodrigo Fernandes de Mello</i>	
Verification of a Lock-Free Implementation of Multiword LL/SC Object	31
<i>Hui Gao, Yan Fu, and Wim H. Hesselink</i>	
Policy Description Language for Dynamic Access Control Models	37
<i>Masaki Hashimoto, Mira Kim, Hidenori Tsuji, and Hidehiko Tanaka</i>	
Reliability and Dependability Modeling and Analysis of Dynamic Aspects in Complex Systems	43
<i>Salvatore Distefano</i>	
TCBC: Trap Caching Bounds Checking for C	49
<i>Yoshitaka Arahori, Katsuhiko Gondow, and Hideo Maejima</i>	
A Rare Feature Recognition Approach Based on Fuzzy ART Neural Networks	57
<i>Jun Zha, Cong Lu, and HongGuang Lv</i>	
A Utility-Based Adaptive Resource Allocation Policy in Virtualized Environment	63
<i>Jian Wan, Peipei Shan, and Xianghua Xu</i>	

Track 02: Communication and Network

Achieving Information Security in Network Computing Systems	71
<i>Vincenzo D. Cusso, Salvatore Distefano, Antonio Puliafito, and Marco Scarpa</i>	
Securing Session Initiation Protocol in Voice over IP Domain	78
<i>Iyad Alsmairat, Rajan Shankaran, Mehmet Orgun, and Eryk Dutkiewicz</i>	
Modeling and Analysis of Self-Reflection Based on Continuous State-Space Approximation of PEPA	84
<i>Hongwu Lv, Huiqiang Wang, Qian Zhao, and Chunguang Ma</i>	
Composition Planning for Networked Appliances	90
<i>Chatcharin Namman and Anirach Mingkhwan</i>	
A Dynamic Protection System of Web Server in Virtual Cluster Using Live Migration	95
<i>Ruo Ando, Zong-Hua Zhang, Youki Kadobayashi, and Yoichi Shinoda</i>	

Replica Placement in Multi-tier Data Grid	103
<i>Qaisar Rasool, Jianzhong Li, and Shuo Zhang</i>	
Grey Prediction Control of Adaptive Resources Allocation in Virtualized	
Computing System	109
<i>Xianghua Xu, Yanna Yan, and Jian Wan</i>	
Security Analysis of NSSK Protocol and its Improvement	115
<i>Liao Junguo, Zhu Bin, and He Yong</i>	
Evolutionary Design of Relatively Large Combinational Circuits with	
an Extended Stepwise Dimension Reduction	119
<i>Zhifang Li, Wenjian Luo, Lihua Yue, and Xufa Wang</i>	

Track 03: Embedded System and Application

Research on Secure and Reconfigurable Architecture Based on Embedded	
Hardware	127
<i>Zhiqiang Zhu, Mingdi Xu, and Huanguo Zhang</i>	
Low Power Embedded Speech Enhancement System Based on a Fixed-Point	
DSP	132
<i>Yu Cai, Jianping Yuan, Xiaochuan Ma, and Chaohuan Hou</i>	
A Method for Software Security Growth Based on the Real-Time Monitor	
Algorithm and Software Hot-Swapping	137
<i>Huiqiang Wang, Xikun Dong, and Haifeng Wang</i>	
Energy-Efficient Cluster-Based Scheme for Handling Node Failure	
in Real-Time Sensor Networks	143
<i>Hamid Karimi, Mehdi Kargahi, and Nasser Yazdani</i>	
Real Hardware Verification by Software for Bootstrap Using TSC	149
<i>Kunio Miyamoto and Hidehiko Tanaka</i>	

The Eighth International Conference on Pervasive Intelligence and Computing (PICoM-09)

Track 01: Artificial Intelligence and Knowledge Computing

Solving Aircraft-Sequencing Problem Based on Bee Evolutionary Genetic	
Algorithm and Clustering Method	157
<i>Siliang Wang</i>	
Generating an Approximately Optimal Detector Set by Evolving Random	
Seeds	162
<i>Jie Zhang, Wenjian Luo, and Baoliang Xu</i>	
Learning Navigation Map on Ontology	169
<i>Tianying Chen and Hongguang Fu</i>	
Semantic Web Services Composition Model Based on Domain Ontology Cost	
Graph	175
<i>Chongyun Wu and Jun Wen</i>	

An Approach to Multi-issue Active Negotiation Control Algorithm in Multi-stages	179
--	-----

Lipeng Wang and Mingjun Xin

A Comparative Study of Medical Data Classification Methods Based on Decision Tree and Bagging Algorithms	183
---	-----

My Chau Tu, Dongil Shin, and Dongkyoo Shin

Robust and Fast Keypoint Recognition Based on SE-FAST	188
---	-----

Xueting Tan, Xubo Yang, and Shuangjiu Xiao

Pattern Matching with Independent Wildcard Gaps	194
---	-----

Fan Min, Xindong Wu, and Zhenyu Lu

Track 02: Nature-Inspired Intelligence and Soft Computing

Toward an Understanding of User-Defined Conditional Preferences	203
---	-----

Zhiyong Yu, Zhiwen Yu, Xingshe Zhou, and Yuichi Nakamura

Design and Implementation of a High Resolution Localization System for In-Vivo Capsule Endoscopy	209
---	-----

*Jinlong Hou, Yongxin Zhu, Le Zhang, Yuzhuo Fu, Feng Zhao, Li Yang,
and Guoguang Rong*

Adaptive Fuzzy Control with Modulated Membership Function Applies to Path Tracking Based on Location System	215
--	-----

Wei-Jun Pan, Chih-Chun Lin, and Leehter Yao

Track 03: Social Intelligence and Agent-Based Computing

Design of a Rule Based System Using Structured Query Language	223
---	-----

Umair Abdullah, Mohammad Jamil Sawar, and Aftab Ahmed

Intelligent Context-Based Adaptation for Spatial Routing Applications in Dynamic Environment	229
---	-----

Dejian Meng, Stefan Poslad, and Yide Zhang

Blog Hotness Evaluation Model Based on Text Opinion Analysis	235
--	-----

Jianjiang Li, Xuechun Zhang, Yu Weng, and Changjun Hu

A Web Text Filter Based on Rough Set Weighted Bayesian	241
--	-----

Yu Wu, Kun She, Williams Zhu, Xiaojun Yue, and Huiqiong Luo

Measuring the Probability of Correctness of Contextual Information in Context Aware Systems	246
--	-----

Nermin Brčulja, Rico Kusber, Klaus David, and Matthias Baumgarten

Cooperative Alert Topic Detection Model in Distributed Environment	254
--	-----

Jianjiang Li, Chengxiu Xue, Yu Weng, and Changjun Hu

A Comparison of Social Service Selection Techniques	260
---	-----

Elodie Billionniere, David Greiman, and Kinnis Gosha

Synthesis and Analysis in Artificial Intelligence: The Role of Theory in Agent Implementation	266
---	-----

*Roxanne B. Raine, Rieks op den Akker, Zhiqiang Cai, Arthur C. Graesser,
and Danielle S. McNamara*

A Software Agent Based Simulation Model for Systems with Decision Units	270
---	-----

Yuan Miao

Track 04: Ubiquitous Intelligence and Cyber-Physical Computing

A Novel Variable-Boundary-Coded Quantum Genetic Algorithm for Function Optimization	279
---	-----

Hegen Xiong, Kai Xiong, and Qiuhsia Tang

On the Linkability and Security Analysis of Two Schnorr-Type Blind Signature Schemes	286
--	-----

Jianhong Zhang, Hua Chen, and Shengnan Gao

Cryptanalysis of Two Identity Based Signcryption Schemes	292
--	-----

Qi Xia and Chunxiang Xu

Cyber-I: Vision of the Individual's Counterpart on Cyberspace	295
---	-----

Jie Wen, Kai Ming, Furong Wang, Benxiong Huang, and Jianhua Ma

Multidimensional Pervasive Adaptation into Ambient Intelligent Environments	303
---	-----

*Yacine Bellik, Achilles Kameas, Christos Goumopoulos, Hani Hagras,
Tobias Heinroth, Gaëtan Pruvost, Apostolos Meliones, Dimitris Economou,
Wolfgang Minker, and Michael Gardner*

Track 05: Embedded Hardware, Software, and Systems

Performance Study of RFID Localisation in a Challenging Indoor Environment	311
--	-----

Siok Kheng Tan and Zhong Fan

A Mobile Health Monitoring System Using RFID Ring-Type Pulse Sensor	317
---	-----

*Yu-Chi Wu, Pei-Fan Chen, Zhi-Huang Hu, Chao-Hsu Chang, Gwo-Chuan Lee,
and Wen-Ching Yu*

Similarity Computation Using Reconfigurable Embedded Hardware	323
---	-----

Darshika G. Perera and Kin Fun Li

A Memetic Algorithm Based on P Systems for IIR Digital Filter Design	330
--	-----

Chunxiu Liu, Gexiang Zhang, Xuebai Zhang, and Hongwen Liu

Key Techniques of Interoperable DRM on Linux Platform	335
---	-----

Yulin Wang and Xuebin Liu

VDE: Seamless Mobility on Desktop Environment	339
---	-----

Xiaofei Liao, Xianwen Chen, Hai Jin, and Zongfen Han

Mobile Phones as 3-DOF Controllers: A Comparative Study	345
---	-----

Nicholas Katzakis and Masahiro Hori

Track 06: Pervasive Networks and Communications

Modeling Reputation Scheme in P2P File-Sharing by Stochastic Activity Networks	353
<i>Peiqing Zhang and Bjarne E. Helvik</i>	
Research on the Critical Nodes Compensation Algorithm in Sparse Ad Hoc Wireless Networks	359
<i>Chun-mei Chen, Hong Jiang, and Shi-en Yang</i>	
On-demand Query Processing in Mobile Ad Hoc Networks	364
<i>Longjiang Li, Supeng Leng, and Yuming Mao</i>	
A New Method for Coverage in Wireless Sensor Networks	369
<i>Nima Attarzadeh, Ali Barati, and Ali Movaghar</i>	
A Novel Dual Busy Tone Aided MAC Protocol for Multi-hop Wireless Networks	373
<i>Ke Liu, Supeng Leng, Huirong Fu, and Longjiang Li</i>	
Multi-objective Optimization of Cross-Layer Configuration for Cognitive Wireless Network	379
<i>Hong Jiang, Yujun Bao, Qiang Li, and Yuqing Huang</i>	
A Key Agreement Scheme Based on Bilinear Pairing for Wireless Sensor Network	384
<i>Chen Hao and Guo Yajun</i>	
An Adaptive Low Latency Cross-Layer MAC Protocol for Wireless Sensor Networks	389
<i>Zhenzhou Tang and Qian Hu</i>	
A New Approach to Secure Aggregation of Private Data in Wireless Sensor Networks	394
<i>Rabindra Bista, Kyoung-Jin Jo, and Jae-Woo Chang</i>	
ABSR: An Agent Based Self-Recovery Model for Wireless Sensor Network	400
<i>Chunguang Ma, Xiangjun Lin, Hongwu Lv, and Huiqiang Wang</i>	

Track 07: Multimedia Technologies and Applications

An Improved Method to Reduce Over-Segmentation of Watershed Transformation and its Application in the Contour Extraction of Brain Image	407
<i>Hui Zhu, Bofeng Zhang, Anping Song, and Wu Zhang</i>	
Automatic Segmentation in Tongue Image by Mouth Location and Active Appearance Model	413
<i>Xiuzhen Zhong, Hongguang Fu, Junhua Yang, and Weiming Wang</i>	
A General Framework of Brain-Computer Interface with Visualization and Virtual Reality Feedback	418
<i>Gufei Sun, Kuangda Li, Xiaoqiang Li, Bofeng Zhang, Shizhong Yuan, and Gengfeng Wu</i>	
Salmon: Precise 3D Contours in Real Time	424
<i>Tariq Khan, John Morris, Khurram Javed, and Georgy Gimelfarb</i>	

Correlation Between Forehead EEG and Sensorimotor Area EEG in Motor Imagery Task	430
<i>Kuangda Li, Gufei Sun, Bofeng Zhang, Shaochun Wu, and Gengfeng Wu</i>	
Position Calculating and Path Tracking of Three Dimensional Location System Based on Different Wave Velocities	436
<i>Chih-Chun Lin, She-Shang Xue, and Leehter Yao</i>	
Efficient Video Quality Assessment for Broadcasting Multimedia Signal	442
<i>Xingang Liu, Kook-Yeol Yoo, Ho-Youl Jung, and Yong-Wan Park</i>	
A Peer to Peer Large Data Parallel Computing System and its Application in High-Resolution Video Processing	448
<i>Yanru Chen, Guowei Chen, and Mitsuji Matsumoto</i>	
The Second International Symposium on Ubisafe Computing (UbiSafe-09)	
Runtime Safety Models in Open Systems of Systems	455
<i>Daniel Schneider and Mario Trapp</i>	
People Reidentification in a Camera Network	461
<i>Icaro Oliveira de Oliveira and José Luiz de Souza Pio</i>	
Web Service Selection Algorithm Based on Particle Swarm Optimization	467
<i>Hong Xia, Yan Chen, Zengzhi Li, Haichang Gao, and Yanping Chen</i>	
A Service-Oriented Model for Autonomic Computing Elements Based upon Queuing Theory	473
<i>Qian Zhao, Huiqiang Wang, Guangsheng Feng, Xu Lu, and Hongwu Lv</i>	
Research on Parallelization of Aspect-Oriented Program	478
<i>Tengfei He and Xiaoguang Mao</i>	
Reducing Program Environment Misjudgement on VM Detection Using TSC	483
<i>Kunio Miyamoto and Hidehiko Tanaka</i>	
Password Recovery for RAR Files Using CUDA	486
<i>Guang Hu, Jianhua Ma, and Benxiong Huang</i>	
Design Optimization under Aleatory and Epistemic Uncertainties	491
<i>Juan Wei, Bo Yang, and Wei Liu</i>	
Integration of Resource Poor Wireless Sensor Networks into Smart Spaces	496
<i>Nuno Costa, António Pereira, and Carlos Serôdio</i>	
Autonomic Trust Extraction for Trustworthy Service Discovery in Urban Computing	502
<i>Kyounghee Jung and Younghee Lee</i>	
A Game Theoretic Approach for Quantitative Evaluation of Security by Considering Hackers with Diverse Behaviors	508
<i>Behzad Zare Moayedi and Mohammad Abdollahi Azgomi</i>	
Research and Implement of Secure Bootstrap for Virtual Machine Based on Trusted Computing Platform	514
<i>Zhiqiang Zhu, Mingdi Xu, and Huanguo Zhang</i>	

The 2009 International Symposium on Network Evolution and Routing Innovation (Routing-09)

Study on Buffer Optimal Control Algorithm Based on Infinitesimal Perturbation Analysis for Broadband Satellite Networks	523
<i>Wang Lei and He Ning</i>	
An Improved Intrusion Detection Method in Mobile AdHoc Network	527
<i>Fangchao Yin, Xin Feng, Yonglin Han, Libai He, and Huan Wang</i>	
Multicasting Tree Transformation for Concurrent Modest Multimedia Service	533
<i>Mi-Young Kang, Ji-Seung Nam, and Seo-Gyun Kim</i>	
Finding Arc and Vertex-Disjoint Paths in Networks	539
<i>Zheng Xie, Hongze Leng, Zhi Chen, and Jun Zhang</i>	
A Routing Misbehavior Detection and Mitigating Scheme Based on Reputation in Hybrid Wireless Mesh Networks	545
<i>Jinsong Gui</i>	
Multi-metric Routing Decisions in VANET	551
<i>Xiao-bo Wang, Yu-liang Yang, and Jian-wei An</i>	
Routing on Shortest Pair of Disjoint Paths with Bandwidth Guaranteed	557
<i>Hongze Leng, Meilian Liang, Junqiang Song, Zheng Xie, and Jun Zhang</i>	
Data Caching Based on Improved DGA in Ad Hoc Networks	562
<i>Hongbin Song, Xiaoqiang Xiao, Ming Xu, and Lei Lin</i>	
A Study on Buffer Efficiency and Surround Routing Strategy in Delay Tolerant Network	566
<i>Qian He, Yang Li, and Xiumei Fan</i>	
A Load-Balancing and Energy-Aware Routing Protocol for MANET Accessing Internet	571
<i>Jian Xu and Xiang-Cai Zhu</i>	
Compact Routing on Random Power Law Graphs	575
<i>Mingdong Tang, Jing Yang, and Guoqing Zhang</i>	
A Framework for Identifier-Based Routing for Future Internet	579
<i>Jie Hou, Yaping Liu, and Zhenghu Gong</i>	
The 2009 International Symposium on Social Computing and Networking (SocialNet-09)	
Noise Source Recognition Based on Two-Level Architecture Neural Network Ensemble for Incremental Learning	587
<i>Gao Zhihua, Ben Kerong, and Cui Lilin</i>	
Crawling Strategy of Focused Crawler Based on Niche Genetic Algorithm	591
<i>Huilian Fan, Guangpu Zeng, and Xianli Li</i>	
A Hybrid Algorithm for Solving Two-Part Division Problem in Network Community Detection	595
<i>Chengying Mao, Man Luo, and Zhenmei Zhu</i>	

Influence Diagram Model with Interval-Valued Utilities	601
<i>Lihua Zhou, Weiyi Liu, and Lizhen Wang</i>	
Research on Social Relation Extraction of Web Persons	606
<i>Gan Tian and Mo Qian</i>	
World Models and Technologies of Psychological Impact to Resolve International Conflicts	611
<i>Andrei Victorovich Manoilo</i>	
Fast Complex Network Clustering Algorithm Using Agents	615
<i>Di Jin, Dayou Liu, Bo Yang, and Jie Liu</i>	
Dynamic Social Network Analysis Using Latent Space Model and an Integrated Clustering Algorithm	620
<i>Aiwu Xu and Xiaolin Zheng</i>	
Research on Network Flow Evaluation Benchmark Model	626
<i>Zhou Jian, Hu Longmao, and Zhou Yanran</i>	
Research on the Application of Expert Knowledge Map Based on Social Network Analysis	632
<i>Tong Liu, Yanqin Shi, and Chensheng Wu</i>	
Research on Component-Based Model Driven Architecture Development and Assembly	636
<i>Fei Chen, Wan-hua Cao, and Yong Huang</i>	
A Study of High Concurrency Workload Influence on Modern Processor	642
<i>Baojie Chai, Dawei Liu, Jie Zhao, and Wenjun Yang</i>	
An Analysis of Security in Social Networks	648
<i>Weimin Luo, Jingbo Liu, Jing Liu, and Chengyu Fan</i>	
Models of Information and Psychological Operations Used in International Conflicts	652
<i>Andrei Victorovich Manoilo</i>	
Bowling Alone and Trust Decline in Social Network Sites	658
<i>Paolo Massa, Martino Salvetti, and Danilo Tomasoni</i>	
Discovery and Visualization of Hierarchical Overlapping Communities from Bibliography Information	664
<i>Pushpa Kumar, Li Wang, Janki Chauhan, and Kang Zhang</i>	
The Second International Workshop on Ambient Computing and Intelligence (ACI-09)	
Water-Bloom Medium-Term Prediction Based on Gray-BP Neural Network Method	673
<i>Shiping Zhu, Zaiwen Liu, Xiaoyi Wang, and Jun Dai</i>	
A Hybrid Approach for Chinese Named Entity Recognition in Music Domain	677
<i>Xueqing Zhang, Zhen Liu, Huizhong Qiu, and Yan Fu</i>	
Research on One Intelligent Prediction Method for Water Bloom	682
<i>Xiaoyi Wang, Zaiwen Liu, Shiping Zhu, Jun Dai, Chenling Zhu, and Minghua Yang</i>	

Designing a Network Acquisition System of Competitive Intelligence	686
--	-----

Guoliang Shi, Xiaorong Mou, and Xu Wan

Towards Integrated Simulation of Cyber-Physical Systems: A Case Study on Intelligent Water Distribution	690
--	-----

Jing Lin, Sahra Sedigh, and Ann Miller

Intrusion Detection Based on Data Mining	696
--	-----

George S. Oreku and Fredrick J. Mtenzi

Using Nature to Best Clarify Computer Security and Threats	702
--	-----

George S. Oreku and Fredrick J. Mtenzi

The 2009 International Workshop on Security in Cloud Computing (SCC-09)

Privacy as a Service: Privacy-Aware Data Storage and Processing in Cloud Computing Architectures	711
---	-----

Wassim Itani, Ayman Kayssi, and Ali Chehab

Cloud Security with Virtualized Defense and Reputation-Based Trust Management	717
--	-----

Kai Hwang, Sameer Kulkarni, and Yue Hu

SRD-DFA: Achieving Sub-rule Distinguishing with Extended DFA Structure	723
--	-----

Gao Xia, Xiaofei Wang, and Bin Liu

Intrusion Detection in the Cloud	729
--	-----

Sebastian Roschke, Feng Cheng, and Christoph Meinel

A Benchmark of Transparent Data Encryption for Migration of Web Applications in the Cloud	735
--	-----

Ji Hu and Andreas Klein

The 2009 International Workshop on Software Engineering and Methodology for Reality Intelligence, Physical-World Aware Systems, and Services (RIPWASS-09)

A Design of Data Acquisition of High Speed CCD Camera	743
---	-----

XiaoFeng Wan, Bingyi Wang, Pu Zeng, and Shung Liu

Acceptance and Applications of Smart Cards Technology in University Settings	746
---	-----

Abdulrahman A. Mirza and Khaled Alghathbar

Design of 3D Positioning Algorithm Based on RFID Receiver Array for In Vivo Micro-Robot	749
--	-----

Le Zhang, Yongxin Zhu, Tingting Mo, Jinlong Hou, and Hao Hu

Public-Mailbox-Based Online Homework-Automatic-Processing Platform	754
--	-----

Yuan Lin, Riping Gen, and Guixian Xu

An On-line Monitor System on Off-Gases of Vehicles with WSN's Design Based on Zigbee Technology	758
--	-----

Zhi-qin Liu, Xiu-feng Jiang, Hai-hao Wang, and Kai Zhang

The 2009 International Workshop on Mobile, Multimedia, Ad Hoc, and Sensor Networks (MMASN-09)

Joint Topology-Transparent Scheduling and Multipath QoS Routing in MANETs	767
<i>Yuan Li, BaoLin Sun, and Xing Luo</i>	
The Optimal Design of Tree Structure Based on Ant Colony of Wireless Sensor Networks Routing	772
<i>Gang Hu, Pan Zhang, and Wei Zhang</i>	
A Practical Solution for Automatic Service Discovery and Usage over Resource Poor Ad-hoc Sensor Networks	777
<i>Nuno Costa, António Pereira, and Carlos Serôdio</i>	
A Remote Monitoring System of IDC Room Based on ZigBee Wireless Sensor Networks	782
<i>Shuchao Ma, Ming Zhu, Lei Wang, Lei Shu, Suran Li, and Shumin Huang</i>	

The Second International Workshop on Smart Homes for Tele-Health (SmarTel-09)

Research of Fingerprint Image Quality Estimation	791
<i>Yulan Zhao, Chunfeng Jiang, Xiufeng Fang, and Bin Huang</i>	
Interactive Pervasive Wireless Services over GPRS and Bluetooth	796
<i>Yong Tang</i>	
Robust Medical Data Delivery for Wireless Pervasive Healthcare	802
<i>Shanshan Jiang, Yuan Xue, Annarita Giani, and Ruzena Bajcsy</i>	

**The 2009 International Workshop on Intellectual Information Systems
and Human-computer Interfaces (IISHCI-09)**

A Newly Developed Diamond Search Algorithm	811
<i>Hui Chen and Hai-Tao Jia</i>	
Comparison of Neural Network and Kriging Method for Creating Simulation-Optimization Metamodels	815
<i>Ren Yuan and Bai Guangchen</i>	

**The 2009 International Workshop on Trust Management in Ubiquitous
and Pervasive Systems (TMUPS-09)**

REAR: Real-Time Energy Aware Routing for Wireless Adhoc Micro Sensors Network	825
<i>Sohail Jabbar, Abid Ali Minhas, Raja Adeel Akhtar, and Muhammad Zubair Aziz</i>	
An Intelligent MANet Routing Method MEC	831
<i>Sheng Cao and Yong Chen</i>	

Short Papers

A Tool for Identifying Ragas Using MIDI (Musical Instrument Devices) for CMIR (Classical Music Information Retrieval)	837
<i>R. Sudha</i>	
A New Connected Component Analysis Algorithm Based on Max-Tree	843
<i>Yan Fu, Xu Chen, and Hui Gao</i>	
P2P-Based Single Sign-On	845
<i>Yong Ma, Xuewen Chen, Ling Li, and Yaoming Luo</i>	
Research of Fingerprint Recognition	847
<i>Chunfeng Jiang, Yulan Zhao, Wei Xu, and Xiangping Meng</i>	
A Synthetic Network Management Model Based on ForCES FE Model	849
<i>Fenggen Jia, Kangping Liu, Bin Zhuge, and Weiming Wang</i>	
A Symmetric Key Based RFID Authentication Protocol Using Encrypted Tag ID	851
<i>Juseok Shin, Yongsoo Park, Sungsoo Kim, Youngbak Kim, Kyungoul Kim, Wonseok Choi, and Kwangseon Ahn</i>	
A Lightweight RFID Authentication Protocol Using Step by Step Symmetric Key Change	853
<i>Kyoungyooul Kim, Kyungho Chung, Juseok Shin, Hyunwoo Kang, Sejin Oh, Chunho Han, and Kwangseon Ahn</i>	
Realization of Intelligent Dynamic Topology Management in Next Generation Network	855
<i>Cong Wu and Shiguo Xu</i>	
Publish and Subscribe Model Based on WS-Notification	857
<i>Guangpu Zeng and Huilian Fan</i>	
Research of Summarization Extraction in Multiple Topics Document	859
<i>Tao Liao and Zongtian Liu</i>	
A Kind of Improved Vector Space Model	861
<i>Xiaoping Xu and Junhu Yan</i>	
A Short Distance Data Dissemination Protocol for Wireless Sensor Networks	863
<i>Kyungho Chung, Sungsoo Kim, Yonghwan Kim, Myungsil Choi, Yongsoo Park, and Kwangseon Ahn</i>	
Delay-Dependent Robust Global Asymptotic Stability for Stochastic Neural Networks with Discrete-Delay and Unbounded Distributed Delays	865
<i>Jinzhong Cui, Mengzhuo Luo, and Shouming Zhong</i>	

Author Index