

Session List

September 17, 13:30-15:30

Session A01: Advanced concepts and methods for pervasive computing

Session A02: Mobile and wearable computing

Session P01: Poster Session (I)

Session P02: Poster Session (II)

September 17, 15:50-17:50

Session A03: Device interface and standardization for pervasive computing

Session A04: Pervasive sensing, perception and inference

Session P03: Poster Session (III)

Session P04: Poster Session (IV)

September 18, 8:30-10:00

Session A05: Data grid and knowledge management for pervasive computing

Session A06: Security, trust, privacy, and other socio-technical issues in pervasive computing

Session A08: Soft Computing

September 18, 10:20-11:50

Session A07: Analysis, design, implementation and evaluation of pervasive devices and systems

Session B06: Coding techniques and Adaptive signal processing

Session B08: Multimedia signal processing

September 18, 13:30-15:30

Session B01: Parameter estimation and spectral analysis

Session B02: Signal representation and transforms

Session B04: Array signal processing

Session B05: Signal reconstruction and analysis

September 18, 15:50-17:50

Session B03: Digital filter design

Session B07: Multi-component sequence analysis

Session B09: AI & neural networks for SP

Session C01: Pervasive computing for smart space

September 19, 13:30-15:30

Session C02: Signal Processing for GNC (Guiding, Navigation, and Control)

Session C03: Signal processing for radar/sonar and Communications

Session P05: Poster Session (V)

September 19, 15:50-17:50

Session C04: Signal processing for Instrument and Measurement

Session C05: Signal processing for biometrics

Session P06: Poster Session (VI)

Session A01: Advanced concepts and methods for pervasive computing

Chairs: Zhe-Ming Lu, Zhejiang University

A01-01 (PCSPA-2010-818)

A Comprehensive Approach of SA Based Software Deployment Reliability Estimation in Neural Networks

Xihong Su, Zhibo Wu, Hongwei Liu, Decheng Zuo, Xiaozong Yang,

A01-02 (PCSPA-2010-1063)

An Efficient Routing Protocol in a Bus-based Vehicular Ad hoc Network

Li chen, zhijun li, shouxu jiang,

A01-03 (PCSPA-2010-IS23-08)

Fast Pedestrian Detection Using Slice-based Motion Analysis

Jing-Jing Yang, Xiao-Hong Su, Pei-Jun Ma

A01-04 (PCSPA-2009-IS05-01)

Small-Cloud Computing in Connection with Linux Thin Client

Bao Rong Chang, Hsi Chung Huang, Ju-Chun Cheng, Chien-Feng

A01-05 (PCSPA-2010-585)

Order Tracking of Speed-up Signals for Gearbox Based on TMS320C5402

zhenggang wen,

A01-06 (PCSPA-2010-766)

A Robust Joint Space Tracking Method Based on Particle Filter

Xin Sun, Hongxun Yao, Zhongqian Sun,

A01-07 (PCSPA-2010-IS10-02)

A New Spam Traffic Characterization Mechanism

Yang Sun

A01-08 (PCSPA-2010-IS10-03)

The Implement of UBL in the E-Business

Yi Liu

A01-09 (PCSPA-2010-IS10-04)

Universal Generic Object Design

Shi-Chang Hu, Jian Yu

A01-10 (PCSPA-2010-728)

Simulation of Pulsed Current Wire Behavior in Magnetic Field Using FEA

Xiaoming Wang, Tao Lei,

A01-11 (PCSPA-2010-786)

On-Line Discriminative Appearance Modeling for Robust Object Tracking

Xin Sun, Hongxun Yao, Shengping Zhang,

Session A02: Mobile and wearable computing

Chairs: Ran Tao, Beijing Institute of Technology

A02-01 (PCSPA-2010-IS23-07)

On-Line Traffic Forecasting of Mobile Communication System

Shao-Jun Wang, Jia Guo, Qi Liu, Xi-Yuan Peng

A02-02 (PCSPA-2010-1040)

Identification of Web Query Intent Based on Query Text and Web Knowledge

Dayong Wu, Yu Zhang, Shiqi Zhao, Ting Liu,

A02-03 (PCSPA-2010-493)

An Energy-Driven Adaptive Cluster-head Rotation Algorithm for Cognitive Radio Network

Wei Shouming, Guo Shizeng, Wang Bin, Xu Guisen, Tan Xuezhi,

A02-04 (PCSPA-2010-874)

Actor Deployment Strategies in WSANs

Nan Che,

A02-05 (PCSPA-2010-1012)

Narrowband Physical Layer design for WBAN system

DuckJin Chung, BoKeun Choi, ByungSoo Kim, SangSeol Lee, KyuYeul Wang, YongJun Kim,

A02-06 (PCSPA-2010-IS10-05)

Universal Methodologies: Decomposition, Integration and Transformation

Shi-Chang Hu, Jian Yu

A02-07 (PCSPA-2010-IS10-06)

Research on CMM Best Practice in Component-Based System Construction

Shu-Guo Fan, Li-Ying Bian

A02-08 (PCSPA-2010-IS10-07)

Research on Improved Increment Maintenance in Data Warehouse

Shu-Guo Fan, Yue-Hong Zhang

A02-09 (PCSPA-2010-IS10-08)

Application Research of MQ Series in the Iron and Steel MES Message Communication System

Jie Liu, Chang-Xing Qi

A02-10 (PCSPA-2010-IS19-005)

An Improved Hybrid Peer-to-Peer Botnet

Yun Yang, Gu-Yu Hu, Shi-Ze Guo, Sai-Sai Yu

A02-11 (PCSPA-2010-IS19-006)

Imbalanced Classification Algorithm in Botnet Detection

Yun Yang, Gu-Yu Hu, Shi-Ze Guo, Jun Luo

A02-12 (PCSPA-2010-IS19-007)

Trust Propagation Model in Pervasive Computing Environment

Yu-Long Liu, Shi-Ze Guo, Ye Tang

A02-13 (PCSPA-2010-IS19-008)

Design and Analysis of Security Policy System in GSM/UMTS Hybrid Network

Lei Zhang, Shi-Ze Guo, Yu-Long Liu

A02-14 (PCSPA-2010-823)

Study on Dynamic Modeling and Simulation for a Air-based Three-Axis ISP System

Jianping Li, Xiangyang Zhou

Session A03: Device interface and standardization for pervasive computing

Chairs: Zhe-Ming Lu, Zhejiang University

A03-01 (PCSPA-2009-IS05-02)

Nonlinear Dynamic Behaviors in Voltage-Mode Controlled Single-Phase Half-Bridge Inverters Via Varying Input Voltage

Fei-Hu Hsieh, Hen-Kung Wang, Po-Lun Chang, Hsuan-Chiang Wu

A03-02 (PCSPA-2010-889)

3D Reconstruction method from biplanar radiography using DLT algorithm:Application to the Femur

Bin Zhang,

A03-03 (PCSPA-2010-1136)

MEMS Gyro Denoising Based on Second Generation Wavelet Transform

junwei Wu, xuemei Zhou, ben mao, jiantong Wu,

A03-04 (PCSPA-2010-IS23-09)

A Solution of Service Platform Supporting Service Integration and Optimization

Zhen Cheng, De-Chen Zhan, Lan-Shun Nie, Xiao-Fei Xu

A03-05 (PCSPA-2010-IS15-08)

An Embedded GIS Integrating GSM and GPS under VxWorks Platform

Yu Peng, Yu-Ye Lin

A03-06 (PCSPA-2010-IS23-10)

Communication Network-oriented Analysis of Transmission Mechanism of Nature Orb-web

Xiao-Sheng Liu, Liang Zhang, Jian-Wei Lin

A03-07 (PCSPA-2010-IS23-12)

Integrated Powertrain Control of Gearshift for Automatic Transmission

Jin-Wu Gao, Zhi-Yuan Liu

A03-08 (PCSPA-2010-IS02-08)

Chinese Text Classification Based on Extended Naïve Bayes Model with Weighed Positive Features

Yaying Qiu, Guangming Yang, Zhenhua Tan

A03-09 (PCSPA-2010-IS19-009)

Model Computing and Merging Algorithm for Anonymous Router in Network Topology

Yong Zhang, Shi-Ze Guo, Wei Niu, Yun Yang

Session A04: Pervasive sensing, perception and inference

Chairs: Ran Tao, Beijing Institute of Technology

A04-01 (PCSPA-2010-IS17-01)

A Study of Zero-Crossings with Peak-Amplitudes in Speech Emotion Classification

Sun Ying, Xue-Ying Zhang

A04-02 (PCSPA-2010-IS17-02)

Speaker Independent Recognition on OLLO French Corpus by using Different Features

Li-Xia Huang, Xue-Ying Zhang, Gianpaolo Evangelista

A04-03 (PCSPA-2010-IS20-03)

A Novel Crossbar Scheduling for Multi-FPGA Parallel SAR Imaging System

Huang-Hui Shen, Jing Wang, Zhen-Song Wang, Wei-Min Zheng

A04-04 (PCSPA-2010-IS17-03)

Speech Recognition Based on Support Vector Machine and Error Correcting Output Codes

Xiao-Feng Liu, Xue-Ying Zhang, Ji-Kang Duan

A04-05 (PCSPA-2010-IS15-06)

Flying Control System Architecture of Informationization for Pervasive Computing

Jin-Yong Lin, Jun Zhang, Wen-Jie Dong, Xiao-Ying Gao, and Chun-Tang Qi

A04-06 (PCSPA-2010-IS04-01)

A Dependability Model to Enhance Security of Cloud Environment using System-Level Virtualization Techniques

Dawei Sun, Guiran Chang, Qiang Guo, Chuan Wang, and Xingwei Wang

A04-07 (PCSPA-2010-IS04-02)

Integrated Coverage Control and Security Connectivity in Mobile Sensor Networks

Jia Jie, Zhang Zhaoyang, Chen Jian, and Zhao Linliang

A04-08 (PCSPA-2010-IS04-04)

The Adaptively Routing Algorithm Depending on Traffic Prediction Models in Cognitive Networks

Jie Li, Xingwei Wang, Ruiyun Yu, and Jie Jia

A04-09 (PCSPA-2010-IS04-07)

Topology Optimization of Mobile P2P Ad Hoc Networks

Ying ZHANG, Guiran CHANG, and Jie JIA

Session A05: Data grid and knowledge management for pervasive computing

Chair: Yu-Long Qiao, Harbin Engineering University

A05-01 (PCSPA-2010-IS02-09)

3D Object Reconstruction Based on Motion Vision

Guangming Yang, Long Yan

A05-02 (PCSPA-2010-IS03-03)

A New Color image Encryption Algorithm based on 3D Lorenz Chaos Sequences

Xiu-chun Mu and E-Nuo Song

A05-03 (PCSPA-2010-IS03-04)

Effective Dissolve Detection Based on Accumulating Histogram Difference and the Support Point

Qing-Ge Ji, Jian-Wei Feng, Jie Zhao, and Zhe-Ming Lu

A05-04 (PCSPA-2010-IS03-06)

Face Recognition with Single Training Image per Person based on Wavelet Transform and Virtual Information

Yinnan Zhao, Yan Ma, and Shiwei Jin

A05-05 (PCSPA-2010-IS03-07)

Real-Time Image Semantic Retrieval Based on VQ

Mei-Lei Lv, Bei-Bei Liu, and Zhe-Ming Lu

A05-06 (PCSPA-2010-IS03-08)

Study on Sliding Mode Fuzzy Control for the Subsystem of a Stream Generator

Gui-Feng Zhang

A05-07 (PCSPA-2010-IS12-10)

Book Information Retrieval System Based On Deep-Web Data Integration

Xiao-Yu Wang, Xiang-Yang Cui, De-Yun Chen, and Feng Jiang

A05-08 (PCSPA-2010-1212)

Comparative Analysis of Feature Extraction Algorithms with Different Rules for Hyperspectral Anomal

Zhenlin Liu, Yanfeng Gu, Ye Zhang

A05-09 (PCSPA-2010-IS17-20)

Speed Up Temporal Median Filter for Background Subtraction

Mao-Hsiung Hung, Jeng-Shyang Pan, Chaur-Heh Hsieh

A05-10(PCSPA-2010-IS08-01)

Distributed Low-Complexity H.264 Video Combining for Multipoint Video Conferencing

Wei Zhang, Weimin Lei

A05-11 (PCSPA-2010-IS08-02)

A Uniform Session-based Media Controlling Framework for IMS Terminal

Junying Jia, Hu Lin, Bo Yu and Huili Wang

A05-12 (PCSPA-2010-IS08-03)

A Review of the Policy-Based QoS Architecture in IMS

Bo Yu, Dong Yu, Junying Jia, Jinghua Lin

A05-13 (PCSPA-2010-IS08-04)

Design and Implementation of Performance Testing Utility for RTSP Streaming Media Server

Yong Liu, Bin Du, Shuling Wang, Haibo Yang

A05-14 (PCSPA-2010-IS08-05)

A Dynamic RWA Algorithm for Optical Networks with Wavelength Conversion Capacity

Du Li, Bi Xiaohong, Wang Xiaojing

A05-15 (PCSPA-2010-IS08-06)

A Controllable P2P Streaming Delivery Network in IMS

Jinghua Lin, Dong Yu, Junying Jia, Junchao Li

A05-16 (PCSPA-2010-IS13-05)

A Detector of DTTB based Passive Radar using FRFT and Hough Transform

Jin-Lu Yang, Tao Shan, Ran Tao

**Session A06: Security, trust, privacy, and other socio-technical issues
in pervasive computing**

Chairs: Xuan-Li Wu , Harbin Institute of Technolgy

A06-01 (PCSPA-2010-IS01-01)

Print-and-Scan Resilient Watermarking for Authenticating Paper-Based Certificates

Yuan-Liang Tang and Yin-Tai Huang

A06-02 (PCSPA-2010-IS01-02)

Image secret sharing and hiding with authentication

Peng Li, Peijun Ma, and Xiaohong Su

A06-03 (PCSPA-2010-IS01-03)

*Image Error Detection and Error concealment Technique Based on Interleaving Prediction
and Direction Information Hiding*

Kuo Lung Hung and Chen Husan Tsai

A06-04 (PCSPA-2010-IS01-04)

An Adaptive Image Compression Method Based on Vector Quantization

Jau-Ji Shen and Hsiu-Chuan Huang

A06-05 (PCSPA-2010-IS01-05)

Secret Image Sharing with Steganography and Authentication using Dynamic Programming Strategy

Chi-Shiang Chan and Ping-En Sung

A06-06 (PCSPA-2010-1145)

Research on the Anomaly Discovering Algorithm of the Packet Filtering Rule Sets

Duan Rong, Guo Shize, Chen Zhe,

A06-07 (PCSPA-2010-IS02-02)

An Anonymous Attestation Scheme in Inter-Domain Environment with Enhanced Security

Lina SUN, Guiran CHANG, Dawei SUN, Xingwei WANG, Chunguang TAN

A06-08 (PCSPA-2010-IS20-01)

Privacy Protection in Ubiquitous Computing

Ping Zhang, Jian-Ping Fan, Wei-Min Zheng

A06-09 (PCSPA-2010-IS17-21)

Real-time Analysis of Laser Speckle Patterns for Precision Positioning

Chih-Ming Liao, Ping S. Huang, Chung-Cheng Chiu, Yi-Yuh Hwang, Shin-I Ma

Session A07: Analysis, design, implementation and evaluation of pervasive devices and systems

Chair: Yu-Long Qiao, Harbin Engineering University

A07-01 (PCSPA-2010-1084)

Research on the Reliability of MAC Protocols for Multi-radio Sensor Networks

Yahong Guo, Desheng Zhang, Jinbao Li,

A07-02 (PCSPA-2010-IS07-02)

A RFID field operation system design for agricultural traceability

Yu-Chih Huang and Wen-Chung Kuo

A07-03 (PCSPA-2010-610)

Design and Analysis of Compound-Structure Permanent-Magnet Synchronous Machine Used for Hybrid Electric Vehicles

Ping Zheng, Shuang Yu,

A07-04 (PCSPA-2010-IS02-05)

Power Integrity Analysis for High-speed PCB

Wang Li-xin, Zhang Yu-xia, Zhang Gang

A07-05 (PCSPA-2010-IS04-05)

The reading/writing SD card system based on FPGA

LU Zhenlin, LI Jingjiao, Zhang Yao

A07-06 (PCSPA-2010-IS15-02)

Research and Design of Embedded Radar Information Processor Oriented to Pervasive Computing

Chun-Xia Zhang, Wen-Jie Dong, Xi-Yan Tian, and Jun Zhang,

A07-07 (PCSPA-2010-IS15-07)

Design of Hardware-in-Loop Simulation System Based on Pervasive Computing Technology

Ji-Feng Ma

A07-08 (PCSPA2010-0214)

Analysis and Design of a High Power Density Axial Flux Permanent Magnet Linear Synchronous Machine Used for Stirling System

Ping Zheng, Xuhui Gan, Lin Li

Session A08: Soft Computing

Chair: Hai-Feng Li, Harbin Institute of Technology

A08-01 (PCSPA-2010-IS07-01)

Face View Recognition and Facial Feature Extraction

Chuan-Yu Chang, Jia-Sin Li, and Jui-Yi Kuo

A08-02 (PCSPA-2010-IS09-01)

Logic Circuit Design by Neural Network and PSO Algorithm

Jen-Pin Yang, Chih-Kung Kung, Fang-Tsung Liu, Yu-Ju Chen, Chuo-Yean Chang, Rey-Chue Hwang

A08-03 (PCSPA-2010-IS09-02)

Signal Processing by Polynomial NN and Equivalent Polynomial Function

Chih-Chien Huang, Wei-Chih Chen, Chi-Yen Shen, Yu-Ju Chen, Chuo-Yean Chang, Rey-Chue Hwang

A08-04 (PCSPA-2010-IS23-04)

Ontology-based Image Retrieval with SIFT Features

Xue-Jun Liu

A08-05 (PCSPA-2010-IS03-02)

A Reformative KMSE Algorithm Based on the Numerical Analysis of Matrix

Jinrong Cui

A08-06 (PCSPA-2010-IS23-18)

A Fast Data Fusion Algorithm Based on Matrix Analysis for Target Recognition in Sensor Networks

Quan-Long Li, Xiao-Fei Xu, Qing-Jun Yan, Zhao-Bo Wang

Session B: Signal Processing

Session B01: Parameter estimation and spectral analysis

Chair: Long-Jiang Yu, Harbin Institute of Technology

B01-01 (PCSPA-2010-248)

An Improved Window and Interpolation Algorithm Using Trispectrum for Measuring Power Harmonics Based on FFT

bing zhang,

B01-02 (PCSPA-2010-440)

Study on Fault Detection Method Based on SVMs

Libing Wang, Chaoxuan Shang,

B01-03 (PCSPA-2010-503)

Branch Parameter Error Identification and Estimation in Power Systems

Jianquan ZHU, Feng LIU, Shengwei MEI,

B01-04 (PCSPA-2010-711)

Research on ISAR imaging method of parameter estimation based on optimal imaging period

Songqiao Yin, Yicheng Jiang,

B01-05 (PCSPA-2010-953)

Research on Noise-eliminating Method for Large Structure Vibration Signals Based on the Prony Algorithm

Tian Guang , Zheng Hai-qi , Yu Gui-bo, Ma Ya-fei, Tang Li-wei,

Session B02: Signal representation and transforms

Chair: Long-Jiang Yu, Harbin Institute of Technology

B02-01 (PCSPA-2010-IS12-11)

The Research of Fast Vector Transform and the Implementation

Qiu-Sheng Wang

B02-02 (PCSPA-2010-IS13-06)

A Technique for Suppressing Periodic Linear Frequency Modulation Interference in PN Spread-Spectrum Systems

Hao Huan, Ran Tao

B02-03 (PCSPA-2010-IS13-07)

Interference Suppression in Spread Spectrum Systems Using the CR-Fractional Fourier Transform

Ke-Wu Huang, Ran Tao

B02-04 (PCSPA-2010-IS16-03)

Research on Wavelet Denoising for Pulse Signal based on Improved Wavelet Thresholding

Feng-Xiang Chang, Wen-Xue Hong, Tao Zhang, Jun Jing, and Xu-Long Liu

B02-05 (PCSPA-2010-IS16-04)

Multichannel Epileptic EEG Classification using Quaternions and Neural Network

Yong Zhao, Wen-Xue Hong, Yong-Hong Xu

B02-06 (PCSPA-2010-628)

Two-Dimensional Random Projection for Face Recognition

Parinya Sanguansat,

Session B03: Digital filter design

Chair: Long-Jiang Yu, Harbin Institute of Technology

B03-01 (PCSPA-2010-IS13-09)

Parameter Estimation of LFM Signal in the Fractional Fourier Domain via Curve-Fitting Optimization Technique

Fang Zhang, Lin Qi, En-Qing Chen, Xiao-Min Mu

B03-02 (PCSPA-2010-IS17-04)

Blind Separation of Noisy mixed Speech Signals based Independent Component Analysis

Hong-Yan Li, Qing-Hua Zhao, Guang-Long Ren, Hua-Kui Wang

B03-03 (PCSPA-2010-IS17-05)

Automatic Modulation Recognition of Digital Communication Signals

Juan-Ping Wu, Ying-Zheng Han, Jin-Mei Zhang, Hua-Kui Wang, Jian-Fang Xin

B03-04 (PCSPA-2010-IS17-06)

Modulation Recognition Scheme using Mixed Model

Hua-Kui Wang, Xu-Qing Yao, Juan-Ping Wu, Ying-Zheng Han, Li-Li Feng

B03-05 (PCSPA-2010-IS17-09)

Research on Image Recognition Based on Invariant Moment and SVM

Jian-Fang Shi, Bei Sun

B03-06 (PCSPA-2010-IS17-10)

The Study and Improvement on Constant Modulus Algorithm for MIMO System

Ying-Zheng Han, Fei-Fei Cao, Tuo Zheng

B03-07 (PCSPA-2010-IS17-11)

New BSS Algorithm of Four Order Cyclic Cumulant

Deng-Ao Li, Ju-Min Zhao, Hai-Yan Zhang, Qing-Lun Ma

B03-08 (PCSPA-2010-IS17-12)

Design of a Silicon-micro Piezoresistive Multi-ranged Accelerometer

Tao Guo, Jie Li

B03-09 (PCSPA-2010-IS10-09)

Optimization of Soft Morphological Filters with Parallel Annealing-genetic Strategy

Ye Tian, Chun-Hui Zhao

B04: Array signal processing

Chair: Ping Yang, Beijing University of Technology

B04-01 (PCSPA-2010-322)

Linearly Constrained Coherent Sidelobe Canceller for Ionosphere Interference Suppression for HFSWR

Rong-qing XU, Wen-long TIAN, Gao-peng LI,

B04-02 (PCSPA-2010-IS11-05)

Performance Analysis of Frequency Domain Channel Estimation of DS-CDMA Communication System

Xuan-Li Wu, Qing-Hua Shen, Xiang-Xia Sun

B04-03 (PCSPA-2010-IS17-19)

Orientation Tree Structure Based Wavelet/VQ Multiple Description Coding

Lin-Lin Tang, Shu-Chuan Chu, John Roddick

B04-04 (PCSPA-2010-IS21-001)

Analysis of Return Signal Mechanism in Ship-board Radar

Zhong Zhang, Qun Ding, Hong Wu, Qinglin Ma

B04-05 (PCSPA-2010-500)

Blind Source Separation Algorithm Based on Wavelet Denoising

Tan Xue-Zhi, Wei Shou-Ming, ANNA Auguste Anghuwo, Liu Xin

B04-06 (PCSPA-2010-IS21-004)

Medical Image Enhancement Algorithm Based on Contourlet Transform

Ai-Ping Jiang, Ping Ren

B04-07(PCSPA-2010-IS13-04)

Fractional Fourier-Contourlet Deblurring of Space Variant Degradation Coupled with Noise

Hui Wan, Ran Tao

B04-08 (PCSPA-2010-IS17-13)

High Precise Attitude Algorithm for SINS

Jie Li, Jun Liu, Bo Wang

B04-09 (PCSPA-2010-IS17-15)

Methodology for Attitudes Precisely Testing of Rolling Projectiles

Jun Liu, Jie Li, Wei Yang, Xiao-Ming Duan

B04-10 (PCSPA-2010-IS17-16)

Research and Implementation of Watershed Segmentation Algorithm based on CCD Infrared Images

Qiao Sun, Wei Yang

B04-11 (PCSPA-2010-IS17-17)

Root-MUSIC Algorithm with Real-valued Eigendecomposition for Acoustic Vector Sensor Array

Peng Wang, Guo-Jun Zhang, Ji-Jun Xiong, Chen-Yang Xue, Wen-Dong Zhang

B04-12 (PCSPA-2010-IS23-14)

A Novel Suppression Algorithm of Power Line Interference in ECG Signal

Hu-He Dai, Shou-Da Jiang, Chang-An Wei

B04-13 (PCSPA-2010-IS23-15)

An Improved Topology Inference Algorithm Based on End-to-End Measurements

Jing-Li Yang, Shou-Da Jiang, Chang-An Wei

B05: Signal reconstruction and analysis

Chair: Chen Wang, Harbin Institute of Technology

B05-01 (PCSPA-2010-IS12-06)

Modeling and Simulation of Thermo-optic Effects on Star Sensor

Guo-Liang Zhang, Jiang-Yun Wang, and Yu-Tong Zhu

B05-02 (PCSPA-2010-IS13-10)

Navigation Satellite Passive Radar Target Detection based on FRFT

Peng-Ge Ma, Lin Qi, En-Qing Chen, Ning Zheng

B05-03 (PCSPA-2010-IS18-10)

Analysis of Schumann Resonance Magnetic Signal Observed at Northeast Coast of China

Hong-Juan Zhou, Xiao-Lin Qiao, Hai-Yan Yu, Bing-Xia Cao

B05-04 (PCSPA-2010-IS18-11)

Propagation Analysis of ELF Electromagnetic Emission below the Cut-off Frequency in Ionosphere

Hai-Yan Yu, Hong-Juan Zhou, Bing-Xia Cao, Xiao-Lin Qiao

B05-05 (PCSPA-2010-1026)

Novel Detection Method for Multi-Component LFM Signals

Guo Qiang,

B05-06 (PCSPA-2010-IS16-05)

The Graphical Feature Extraction of Star Plot for Wine Quality Classification

Jing Li, Jin-Jia Wang, Chong-Xiao Ma, and Wen-Xue Hong

B05-07 (PCSPA-2010-IS16-06)

A Novel Modified Genetic Algorithm for Training Wavelet Neural Networks

Jing Li, Jin-Jia Wang, Chong-Xiao Ma, and Wen-Xue Hong

B05-08 (PCSPA-2010-IS16-07)

GMM-based Detection Methods in EEG-based Brain-computer Interfaces

Jin-Jia Wang, Ke-Mei Jiang, and Chong-Xiao Ma

B05-09 (PCSPA-2010-IS16-08)

Irregular Grid-based Clustering Over High-Dimensional Data Streams

Gui-Bin Hou, Rui-Xia Yao, Jia-Dong Ren, and Chang-Zhen Hu

**B 06: Coding techniques and Adaptive signal processing
Chair: Xuan-Li Wu , Harbin Institute of Technolgy**

B06-01 (PCSPA-2010-515)

Error estimation by regression model and Eigentransformation for face hallucination

Kanjana Boonim, Parinya Sanguansat,

B06-02 (PCSPA-2010-856)

Visualized Feature Fusion and Style Evaluation for Musical Genre Analysis

Qingjun Yao,

B06-03 (PCSPA-2010-509)

A Novel Approach for Measuring Video Similarity Without Threshold and Its Application in Sports Video Categorization

Prisana Mutchima, Parinya Sanguansat,

B06-04 (PCSPA-2010-IS23-24)

The wide-band phase measurement based on the switch multiplier

Tong Ziquan, Ren Lijun

B06-05 (PCSPA-2010-IS17-08)

Coding of Mosaic Image Based on Wavelet Sub-band Substitute

Yong-Qiang Cheng, Xue-Ying Zhang, Jun-Hai Wen

B06-06 (PCSPA-2010-IS11-01)

A TOA Estimation Method for IR-UWB Ranging Systems

Xiao-Yan Ning, Xue-Jun Sha, and Xuan-Li Wu

B06-07 (PCSPA-2010-IS11-02)

Multiple Chirp-rate Modulation with Demodulation Based on Fractional Fourier Transform

Qi-Ming Zhao, Qin-Yu Zhang, and Nai-Tong Zhang

B06-08 (PCSPA-2010-IS11-04)

Performance Comparison with Different Pulse Waveforms in Ultra-Wideband Based Wireless Sensor Networks

Xuan-Li Wu, Di Lin, and Xiao-Zong Yang

B06-09 (PCSPA-2010-368)

A Simulation Research on Combined Denoising Algorithm Based on Adaptive Line Enhancement

Li yongjun, Ma liyuan,

B06-10 (PCSPA-2010-372)

An Improved Variable Step Size LMS Adaptive Spectral-line Enhancement Algorithm

Wang tianhui,

B07: Multi-component sequence analysis

Chair: Long-Jiang Yu, Harbin Institute of Technology

B07-01 (PCSPA-2010-IS23-21)

A Hybrid and Ensemble Intelligent Pattern Classification Algorithm

Ying-Jun Zhang, Chi-Ping Zhang, Pei-Jun Ma, Xiao-Hong Su

B07-02 (PCSPA-2010-567)

A Novel method for Query-by-Humming Using Distance Space

Nattha Phiwma, Parinya Sanguansat,

B07-03 (PCSPA-2010-IS17-07)

A Research on Automatic Modulation Recognition with the Combination of the Rough Sets and Neural Network

Hua-Kui Wang, Bin Zhang, Juan-Ping Wu, Ying-Zheng Han, Xiao-Wei Wu, Ruo-Si Jia

B07-04 (PCSPA-2010-IS10-01)

Higher Order Spectra Denoising Method of Phase Matching Noise Estimation

Jie Liu, Peng Wu

B07-05 (PCSPA-2010-481)

Signal Reconstruction Based on Shannon Wavelet Transformation from Nonuniform

Yukai Gao, qiang lv,

B07-06 (PCSPA-2010-IS18-06)

The Monopulse Angle Estimation Based on the Radon-Ambiguity Transform

Nan Yu, Ming Jin, Xiao-Lin Qiao

B07-07 (PCSPA-2010-IS18-12)

Acquisition and Processing for the Signal of Miniature Mass Spectrometer

Zhan-Feng Zhao, Zhi-Quan Zhou, Xiao-Lin Qiao

B07-08 (PCSPA-2010-IS24-01)

Test Method for Stability Time of Electromagnetic Relay Used in Aerospace

Xiao-Chen Li, Bing Li, Guo-Fu Zhai

**B08: Multimedia (speech, image, video, etc.) signal processing
Chair: Hai-Feng Li, Harbin Institute of Technology**

B08-01 (PCSPA-2010-922)

Implementation of high efficient CAVLC encoder for H.264/AVC

Kyu-Yeul Wang, Sang-Seol Lee, Byung-Soo Kim, Bo-Keun Choi, Duck-Jin Chung, Yong-Jun Kim,

B08-02 (PCSPA-2010-1209)

Self-Adaptive PID Control Strategy Based on RBF Neural Network for Robot Manipulator

Pei zhongcai, Tang zhiyong, Yang mingyi,

B08-03 (PCSPA-2010-IS24-02)

Research on Wavelet Threshold De-noising Method of Remainder Detection for Stand-alone Electronic Equipments in Satellite

Ying-Ga Wu, Shi-Cheng Wang, Shu-Juan Wang

B08-04 (PCSPA-2010-1205)

Robust stereo matching combining sift descriptor with ncc under mrf framework

Wenkai Li,

B08-05 (PCSPA-2010-119)

Secondary Development of Visual DSP++ using Python for Debugging Peripherals of DSP

FengCong Li, YiNan Zhao, XiaoLin Qiao,

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NoC Architecture Study with DFG Model

Liu Jia, Li Zheyong

B08-07 (PCSPA-2010-1037)

Research on efficiency of signal processing on embedded multicore system

Tao Liu, Zhenzhou Ji, Qing Wang, Suxia Zhu,

B08-08 (PCSPA-2010-IS16-10)

A novel auto-segmentation scheme for colored leukocyte images

Lianwang Hao, Wenxue Hong, and Cailiang Hu

B08-09 (PCSPA-2010-1044)

Design and In-orbit Test of the Integrated Electronic System Based on General Cell

Xu Guodong, Dong Limin, Shi Li,

B08-10 (PCSPA-2010-142)

Reconstruction of Cylinder Pressure of I.C. Engine Based on Neural Networks

Xia yong,

B08-11 (PCSPA-2010-IS15-02)

Research on Configuration Optimization Techniques for Reconfigurable DSP Processor

Ran Duan, Yan-Ning Wang, Jie Liang

B08-12 (PCSPA-2010-419)

Design of high-speed DDC based multi-stage

chen ming, Quan Hou-de,

B09: AI & neural networks for SP

Chair: Ping Yang, Beijing University of Technology

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The Transmittance Estimation of Touch Panel Decoration Film by Neural Network

Du-Jou Huang, Fang-Tsung Liu, Shang-Jen Chuang, Yu-Ju Chen, Shuming T. Wang, Rey-Chue Hwang

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Quality Identification of the Riveting Process by QNN Model

Jen-Pin Yang, Pin-Hsueh Weng, Yu-Ju Chen, Shang-Jen Chuang, Huang-Chu Huang, Rey-Chue Hwang

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The Application of Unsupervised Clustering in Radar Signal Preselection based on DOA Parameters

Xiang-Peng Zhu, Ming Jin, Wei-Qiang Qian, Shuai Liu, Yu-Mei Wei

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Neutron/Gamma Discrimination Utilizing Fuzzy C-Means Clustering of the Signal from the Liquid Scintillator

Luo Xiaoliang, Liu Guofu, Yang Jun,

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Xu Guodong, Chen Jian, Xu Zhendong,

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Aerodynamic Coefficients Models of Hypersonic Vehicle Based on Aero Database

Maorui Zhang, Yong Sun,

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Chao Han, Zhiguo Chen, Pei Chen,

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Research on the Application of Pattern Selection Algorithm in Bioinformatic Data Bases on Mutual Information

Xin Li, Wen-Xue Hong, and Chun Zhao

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Session C01: Pervasive computing for smart space

Chair: Chen Wang, Harbin Institute of Technology

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Yang Runsheng, Yang Yong,

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A New Method to Analyze Failure Effects in Pervasive Computing Environment

Xin Qi, De-Cheng Zuo, Dong-He Pang, and Xiao-Zong Yang

C01-03 (PCSPA-2010-IS15-10)

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Yi Feng, Zhan Zhang, Hao Liu, De-Cheng Zuo, and Xiao-Zong Yang

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A Leukocyte Nucleus Segmentation Scheme Based on Fingerprint Smoothing

Lian-Wang Hao, Wen-Xue Hong, Cai-Liang Hu, and Tao Zhang

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Osteoporosis Diagnosis Based on the Multifractal Spectrum Features of Micro-CT Images and C4.5 Decision Tree

Zhi Gao, Wen-Xue Hong, Yong-Hong Xu, Tao Zhang, and Zhi-Jie

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A Novel Range Reduction Algorithm Using 64-bit Integer Computation

Jing Wang, Bo Cui, Wei-Min Zheng

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Xiang-Yi Meng, Ran Tao, Lin-Na Jia

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Lang Peng, Junyi Han, Weixiao Meng, Jingyu Liu,

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The Application Research of Coupled Chaos Stream Cipher for Pervasive Computing

Wen-Jie Dong, Jun Zhang, Chun-Xia Zhang, and Chun-Mei Zhou,

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Chair: Long-Jiang Yu, Harbin Institute of Technology

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Pei Chen, Zhi-Guo Chen, and Wen-Ling Liu

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Bo Li, Rongling Zhang, Huimin Liang, Guofu Zhai,

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A Time-Fractional Fourier Joint Representation-based Parameter Estimation Method for Chirp/Frequency Hopping Spread Spectrum Signal

Wei Zhang, Ran Tao

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Ning Han, Limin Liu, Zhuangzhi Han, Chaoxuan Shang,

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Chen Yan; QiaoXue-gong; Xiao Ying-zhe; Xiao Bao-jin

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A New Mix-carrier Method in Asynchronous CDMA System

Rong-Hui Wen, Xue-Jun Sha, and Xin Qiu

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C04: Signal processing for Instrument and Measurement Chair: Long-Jiang Yu, Harbin Institute of Technology

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Xin WANG, Qidan ZHU, Shuli SUN,

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Liang Huimin, You Jiabin, Ye Xuerong, Zhai Guofu,

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Zhao Lei, Wang Peng, Zhang Zhen-chong, Wang Jian-ping, Zhang Guo-jun, Li Zhe-ying,

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Yong Liu, Shu-Chun Ding, Bing Yue, Qun Ding, Zhi-Qiang Hu, Yong Zhu, Jie Yang, Zhi-Fang Wang, and Er-Fu Wang

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A Secure Face Recognition Algorithm Based on Adaptive Non-uniform Quantization

Zhi-Fang Wang, Shuang-Shuang Wang, Qun Ding

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Research on Wireless Sensor Middleware for Pervasive Computing

Bing Yue, Yong Liu

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Pervasive Computing Model of Target Detection Based on the Image

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A Novel Weighted Clustering Algorithm Based on Power Distribution for Cooperative Communication Network

Na Zhang, Ningqing LIU, Weixiao MENG, Qiyue YU,

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A channel-aware queue-aware resource allocation algorithm for OFDMA system with heterogenous delay requirements

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Chun-Mei Zhou, Chun-Xia Zhang, Wen-Jie Dong, Jun Zhang, and Jin-Yong Lin

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Song Xinbo, Guan Ming, Zheng Dezhi, Gong Jingjie,

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Jun Zhang, Wen-Jie Dong, Chun-Xia Zhang, and Chun-Mei Zhou,

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Shi-Ze Guo, Long-Jiang Yu,Guang-Yu Kang

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Xiu-Jian Chou, Kang-Kang Niu, Yi Liu, Chen-Yang Xue, Wen-Dong Zhang

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Ye Zhang, Wei Yang, Wen-Dong Zhang

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Jiang-Yun Wang, and Liang Tang

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Yuan-Yuan Zheng, Tao Wang

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Bing-Xia Cao, Hai-Yan Yu, Xiao-Lin Qiao

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Yong Han, Shuai Liu, Wen-Wen Dong, Xiao-Lin Qiao

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A Digital Demodulation Method for Amplitude Modulated Signal Based on Sub-Nyquist Sampling

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Wei-Qiang Qian, Xiao-Lin Qiao, Xiang-Peng Zhu, Yu-Mei Wei

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Yu-Mei Wei, Ming Jin, Shuai Liu, Xiao-Lin Qiao, Wei-Qiang Qian

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Shuai Liu, Hong-Juan Zhou, Ming Jin, Xiao-Lin Qiao

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Liu Guofu, Yang Jun, Luo Xiaoliang,

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Capacity of Additive Colored Noise Watermarking Channel with Perceptual Distortion Measure

Xiao-ming Wang, Yin-jing Guo, Bin Yan,

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Zheng Kangfeng, Wang Xiujuan, Yang Yixian, Guo Shize,

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Yan-Hui Pan, Tao Wang

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A Novel algorithm to improve dynamic response of Single Phase Grid-connected PV Inverter

Jiang Shigong , Wu Hui , Wang Wei , Xu Dianguo

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Yubin Xu, Jingyu Liu, Lin Ma, Lang Peng,

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Distributed Compressed Sensing-based Data Fusion in Sensor Networks

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Missile 3D Motion Graph Simulation

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An Iterative Weighing Algorithm for Image Reconstruction in Compressive Sensing

Chen Hao, Ma Xiaoyang, Zhang Ye, Tang Wenyang,

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