Session A01: Intelligent Vision Computing (I)

(7 Papers) Chair: Tsong-Yi Chen

1. IBICA-2011-IS02-01

   People Tracking in the Multi-Camera Surveillance System

   Chao-Ho Chen, Tsong-Yi Chen, Da-Jinn Wang, Je-Ching Lin

2. IBICA-2011-IS02-02

   Classification and Estimation for Image Impulse-Noise Based on Analysis of the Spatial Relations

   Tsong-Yi Chen, Chao-Ho Chen, Da-Jinn Wang, Ching-Yueh Wang

3. IBICA-2011-IS02-04

   An Efficient Denoising Approach for Random-Valued Impulse Noise in Digital Images

   Chien-Chuan Huang, Chih-Yuan Lien, Pei-Yin Chen and Hung-Yu Yang

4. IBICA-2011-IS02-05

   Low Complexity Underwater Image Enhancement Based on Dark Channel Prior

   Hung-Yu Yang, Pei-Yin Chen, Chien-Chuan Huang, Ya-Zhu Zhuang, Yeu-Horng Shiau

5. IBICA-2011-IS02-06

   Visibility Improvement by Detail Enhancement on Medical Images

   Wen-Li Lee, Mei-Juan Chen

6. IBICA-2011-IS02-07

   GPS-Free Event-to-Sink Routing Scheme for Data Aggregation in Wireless Sensor Networks

   Bing-Hong Liu, Jyun-Yu Jhang, Kuo-Wen Su

7. IBICA-2011-IS02-08

   Cyclic Prefix Optimization for OFDM Transmission over Fading Propagation with Bit-Rate and BER Constraints

   Yu-Pin Chang, Peter Lemmens, Po-Ming Tu, Chien-Chuan Huang, Pei-Yin Chen

Session A02: Intelligent Vision Computing (II)

(6 Papers) Chair: Chih-Yuan Lien

1. IBICA-2011-IS02-09

   A Fast and Effective Algorithm for Significance Coding using Zero Block Coding Technology

   Chen-Shuo Fan, Hsueh-Yi Lin, Tsung-Han Tsai

2. IBICA-2011-IS02-10

   A Low Complexity Scalable Video Compressor for Multiple Source Digit Home Set-top box

Hsueh-Yi Lin Tsung-Han Tsai

3. IBICA-2011-IS02-11

What's Happening to Our Body after Drinking Coke?

Sheng-Chieh Huang, Yung-Pin Lee, Min-Hua Hsieh, Hui-Min Wang, Mark C. Hou, Shih-Chun Chao, Cheng-Lung Tseng, Wei-Ta Hsiao, Chung-Hung Hong, Kai-Yu Shao, Shi-Han Luo, Wei-Chun Chiu and Wei-Yu Chen

4. IBICA-2011-IS02-12

Camera-Based Cosmetic Platform to Measure Microcirculation and Skin Condition of Faces

Kai-Yu Shao, Shi-Han Luo, Wei-Chun Chiu, Sheng-Chieh Huang, Yung-Pin Lee, Hui-Min Wang, Mark C. Hou, Shih-Chun Chao, Cheng-Lung Tseng, Wei-Ta Hsiao, Chung-Hung Hong, Wei-Yu Chen

5. IBICA-2011-0246

Effcient Color-Ingredient Particle Filter for Video Object Tracking

Jian-Hui Chen, Wen-Kai Tsai, Ming-Hwa Sheu, Kai-min Lin, Ho-En Liao

6. IBICA-2011-IS02-03

Vision-Based Distance Estimation for Multiple Vehicles Using Single Optical Camera Feature

Shi-Huang Chen, Ruie-Shen Chen

Session A03: Intelligent Sound and Image Processing
(7 Papers) Chair: Bing-Hong Liu

1. IBICA-2011-IS02-13

The Sustained Exhilarating Cardiac Responses after Listening to The Very Fast And Complex Rhythm

Chung-Hung Hong, Wei-Ta Hsiao, Hui-Min Wang, Sheng-Chieh Huang, Kai-Yu Shao, Shi-Han Luo, Wei-Chun Chiu, Yung-Pin Lee, Mark C. Hou, Shih-Chun Chao, Cheng-Lung Tseng and Wei-Yu Chen

2. IBICA-2011-IS02-14

Removement of The Three Minutes Irritating Music Produced No Incremental Relaxation

Wei-Ta Hsiao, Chung-Hung Hong, Hui-Min Wang, Sheng-Chieh Huang, Kai-Yu Shao, Shi-Han Luo, Wei-Chun Chiu, Yung-Pin Lee, Mark C. Hou, Shih-Chun Chao, Cheng-Lung Tseng and Wei-Yu Chen

3. IBICA-2011-IS02-15

A Novel and Low-Cost Cosmetic Chip Using 4x4 Array Photoplethysmography

Yung-Pin Lee, Sheng-Chieh Huang, Kai-Yu Shao, Shi-Han Luo, Wei-Chun Chiu, Hui-Min Wang, Mark C. Hou, Shih-Chun Chao, Cheng-Lung Tseng, Wei-Ta Hsiao,

Chung-Hung Hong and Wei-Yu Chen

4. IBICA-2011-IS02-16

Seamless Roaming Architecture

Yu-Chang Chen, Yi-Ju Liao, Wen-Shyong Hsieh, Po-Ting Chen, Tsung-Hsin Lee

5. IBICA-2011-0260

An Image Retrieval Method Based on r/KPSO

Xu Zhang, Bao-Long Guo,Guiyue Zhang,Yunyi Yan

6. IBICA-2011-0265

Image Recognition Based on Kernel Self-optimized Learning

BU Shu-po, LIU Xun-fei, Shu-Chuan Chu, John F. Roddick

7. IBICA-2011-0238

Using the Image Recognition Techniques to Implement an Automatic Examining Mechanism for the Sports Fitness

Ching-Biau Tzeng and Tzuu-Shaang Wey

Session A04: Bio-Computing and Applications (I)
(7 Papers) Chair: Chun-Wei Lin

1. IBICA-2011-0110

A Linear Subspace Learning Approach via Low Rank Decomposition

Fanlong Zhang, Jian Yang

2. IBICA-2011-0113

Essence of Two-dimensional Principal Component Analysis and Its Generalization: Multi-dimensional PCA

Caikou Chen, Jingyu Yang

3. IBICA-2011-0118

Detection of spot from complex regions based on Geodesic distance

Yu-Han Huang, Cheng-Li Sun, Bang-Shu xiong

4. IBICA-2011-0123

Fighting Detection Based on Optical Flow Context Histogram

Yan Chen, Ling Zhang, Yong Xu, Xiaobo Ren,Biyi LIN

5. IBICA-2011-0136

Visual Object Recognition with Bagging of One Class Support Vector Machines

Zongxia Xie, Yong Xu, Qinghua Hu

6. IBICA-2011-0142

Sensor Deployment Distribution Effect on Intrusion Distance in Wireless Sensor Networks

Yaqin Wu,Xiong Xiao Liang

7. IBICA-2011-0156

Three dimensional palmprint recognition using linear discriminant analysis method

Jinrong Cui, Yong Xu

Session A05: Recent Advances on Swarm Intelligence
(5 Papers) Chair: Shi-Huang Chen

1. IBICA-2011-IS03-01

   An analytical approach to the similarities between swarm intelligence and artificial immune system

   Renbin Xiao, Tinggui Chen, Zhenwu Tao

2. IBICA-2011-IS03-02

   A Hybrid Vector Artificial Physics Optimization with Multi-Dimensional Search Method

   Liping Xie, Jianchao Zeng, Xingjuan Cai

3. IBICA-2011-IS03-03

   Artificial Plant Optimization Algorithm for Constrained Optimization Problems

   Ziqiang Zhao, Zhihua Cui, Jianchao Zeng, Xiaoguang Yue

4. IBICA-2011-0240

   Solving Constrained Optimization Problems by an Improved Particle Swarm Optimization

   Chaoli Sun, Jianchao Zeng, Shuchuan Chu,John F.Roddick

5. IBICA-2011-0255

   A PSO Based Image Disguise Method

   Shen Wang, Xiamu Niu

Session A06: Intelligent Computing and Industry Applications (I)
(6 Papers) Chair: Bao Rong Chang

1. IBICA-2011-0088

   HOMS: An Internet Media Distribution System Based on Overlay Multicast

   Shan Jin, Wei-Xiong Chen

2. IBICA-2011-0100

   CTS:New Generation Intelligent Transportation System

   Wen-hai Cai, Ting-ting

3. IBICA-2011-0159

   Research and Implementation of Nuclear Power Overhaul Schedule Automatic Control Platform Based on WebService

   Zi-Nian Shi, Ying Peng

4. IBICA-2011-0162

Application of IT Service Management Platform in Nuclear Power Enterprises Based on ITIL

huihui yao, tingting sun

5. IBICA-2011-0168

The Study and Practice of IT Service Ability Evaluating Model for the Large Enterprise Group

Weixiong CHEN, Lailong ZOU, Zhiqiang Ye, Shaoxue XIONG

Session B01: Chaotic Encryption and Its Application in Secure Communication
(7 Papers) Chair: Chao-Ho Chen

1. IBICA-2011-IS07-01

Array Manifold Calibration in Shipborne Radar

Zhong Zhang, Qun Ding, Kefa Liu, Hui Zhao, Guanjun Liu

2. IBICA-2011-IS07-04

Design and Implementation of CRC Based on FPGA

Tongsheng Zhang, Qun Ding

3. IBICA-2011-IS07-05

Realization of Image Encryption Scheme Based on Chaotic Binary Sequence

Xiaoli Geng, Qun Ding

4. IBICA-2011-IS07-06

Some researches for Lorenz-based secure communication in time and frequency domains

Jing Pan, Qun Ding

5. IBICA-2011-IS07-07

The Research of Code Synchronization of Spread Spectrum Communication System based on FPGA

Hui Du, Qun Ding, Ziheng Yang

6. IBICA-2011-IS07-08

A new digital chaotic sequence generator based on Logistic Map

Yan-bin Zheng, Qun Ding

Session B02: Innovative Social Computing and Applications
(5 Papers) Chair: Shyue-Liang Wang

1. IBICA-2011-0261

Access Control of Cloud Computing Using Rapid Face and Fingerprint Identification

Bao Rong Chang, Hsiu-Fen Tsai, Chi-Ming Chen, Chien-Feng Huang

2. IBICA-2011-IS06-02

Analysis of Human Flesh Search in the Taiwanese Context

Yu-Hui Tao, Chian-Hsueng Chao

3. IBICA-2011-IS06-03

Universal Design of Location-Based Services

Tung-Hsiang Chou, Chi-Yuan Bai

4. IBICA-2011-IS06-04

Anonymizing Multiple K-anonymous Shortest Paths for Social Graphs

Shyue-Liang Wang, Zheng-Ze Tsai, Tzung-Pei Hong, I-Hsien Ting,Yu-Chuan Tsai

5. IBICA-2011-IS06-05

Maintenance of Pre-large FUSP Trees in Dynamic Databases

Chun-Wei Lin, Tzung-Pei Hong, Hong-Yu Lee, Shyue-Liang Wang

Session B03: Intelligent Engineering Management Techniques
(7 Papers) Chair: Tomohiro Murata

1. IBICA-2011-0032

An Improved Shuffled Frog-Leaping Algorithm for Job-shop Scheduling Problem

Min-Rong Chen, Xia Li, Na Wang, Hai-Bo Xiao

2. IBICA-2011-0070

Combinatorial Auction Method for Decentralized Task Assignment of Multiple-Loading Capacity AGV based on Intelligent Agent Architecture

Muhammad Hafidz Fazli bin Md Fauadi,Wan-Ling Li, Tomohiro Murata

3. IBICA-2011-0075

Cooperative Bayesian Optimization Algorithm: a Novel Approach to Simultaneous Multiple Resources Scheduling Problem

Xinchang. Hao, Xili Chen, Hao Wen Lin, Tomohiro Murata

4. IBICA-2011-0083

Performance optimization of Reconfigurable Manufacturing Cell with flexible routing capacity in presence of unreliable machines

Wan-Ling Li, Muhammad Hafidz Fazli bin Md Fauadi, Tomohiro Murata

5. IBICA-2011-0016

Morphic Computing Inspired Hopfield Model for Sensorimotor Transformation (Vestibule-Ocular System)

Resconi Germano, Chu Kiong Loo

6. IBICA-2011-0061

Study on Post-Dryout Heat Transfer in Narrow Annular Channel Using Wavelet Neural Network

Huiming Wei, Xuan Zhang

7. IBICA-2011-0232

A CMOS Temperature sensor Using Cascoded PNP Transistors

Tzuu-Shaang Wey, Ruey-Lue Wang, Te-Hsuan Liu, Chiung-Min Yeh, Min-Chuan Lin, Chen-Fu Lin, Hann-Huei Tsai, Ying-Zong Juang,chen-wei Yu

Session B04: Intelligent Software and Electronic Hardware Design (7 Papers) Chair: Tsung-Han Tsai

1. IBICA-2011-0233

   A simplified design of the embedded e-call system using GPS

   Shengyao Hu, Ming Hung Lin, Tzuu-Shaang Wey

2. IBICA-2011-0235

   An Intergrated controller design for multimedia equipment

   Ming Hung Lin, Shengyao Hu, Tzuu-Shaang Wey

3. IBICA-2011-0236

   Design and Implement a Cost Effective and Ubiquitous Indoor Air Quality Monitoring System Based on ZigBee Wireless Sensor Network

   Ching-Biau Tzeng, Tzuu-Shaang Wey

4. IBICA-2011-0239

   Embedded USB Host/Slave Broadcasting System for Computer Assisted Learning System

   Tzuu-Shaang Wey, Yung-Hoh Sheu

5. IBICA-2011-0248

   New Reverse Converter Design of Moduli Set {2n, 2n+1-1, 2n-1}

   Yuan-Ching Kuo, Ming-Hwa Sheu, Siang-Min Siao, Cheng-Yi Huang, Tzu-Hsiung Chen

6. IBICA-2011-0250

   The Design and Realization of Swabbing Wells Liquid Recovery Interpretation Software

   Bo-tao Liu, Xin-hai Wang, Yan Chen, Hong Liu, Guo-liang Li

7. IBICA-2011-0251

   Hazards and Prevention of BLEVE

   Xian Tan, Fang Li

Session B05: Intelligent Computing and Industry Applications (II) (5 Papers) Chair: Yu-Chang Chen

1. IBICA-2011-0171

   A Method of Fault Diagnosis in Nuclear Plant Based on Fuzzy Sets

   ZhiChun Li, XiaoMin Liu

2. IBICA-2011-0176

Cloud technology in the security management of enterprise document

Na Liu

3. IBICA-2011-0180

The Solution of Nuclear Power Overhaul Multi-project Management Based on Primavera Software

Yanhua Wu, ShuShun Lin, Zheng Zhang

4. IBICA-2011-0184

Research of Intrusion Detection Based on an Improved K-means Algorithm

shenghui wang

5. IBICA-2011-0188

Design and Realization of Distinctive Data Interface Based on SAP HR System

Wei Zhou, Xiao-Qian Zhu, Li-Xuan Ye

Session B06: Intelligent Computing and Industry Applications (III)
(6 Papers) Chair: Francis Feng Li

1. IBICA-2011-0194

A Portal Architecture Based on IT Services

Tingting sun, Futong Huang

2. IBICA-2011-0207

A Data Center Network Solution Based on Switching Network Search Traffic Model Analysis

Yanfei Zhao, Zhaohai Deng

3. IBICA-2011-0215

An Application of the Database Technology Based on XML Used for Nuclear Fuel Calculation Platform

Ying Peng, Guodong Jiao

4. IBICA-2011-0200

Engineering Material Management Pattern Research and Implementation for Generation Ⅲ Nuclear Power Plant

Ting Wu, Jiashu Xu, Zhifeng Tan

5. IBICA-2011-0223

Research on Application and RF EMC of Bidirectional Wireless Communication System in Nuclear Power Plant

Yao Yu, Bing Chen, Yi Luo

6. IBICA-2011-0226

Method of locating Data Center Based on Delphy

Fei Yang, Lixuan Ye, Kefeng zhang

Session C01: Innovative Embedded Computing
(8 Papers) Chair: Tzuu-Shaang Wey

1. IBICA-2011-IS08-01

    An Implemntation for Connecting Android Powered Device to External World

    Hui-Kang Teng,Cheng-Min Lin,Kuo-Chen Lang,Yi-Lun Chu,Shou-Jie Chen

2. IBICA-2011-IS08-02

    An Implementation of Android-Based Mobile Virtual Instrument for Telematics Applications

    Heng-Fa Teng,Meng-Jil Wang,Cheng-Min Lin

3. IBICA-2011-IS08-03

    Bluetooth-based Android Interactive Applications for Smart Living

    Chiu-Chiao Chung,Shiau-Chin Wang,Ching Yuan Huang,Cheng-Min Lin

4. IBICA-2011-IS08-04 The

    Design of an Intelligent Pedometer using Android

    Shyi-Shiou Wu,Hsin-Yi Wu

5. IBICA-2011-IS08-05

    Design and Implement Augmented Reality for Supporting Driving Visual Guidance

    Jyh-Horng Lin,Cheng-Min Lin,Chyi-Ren Dow,Cheng-Qian Wang

6. IBICA-2011-IS08-06

    Benchmark Dalvik and Native for Android System

    Cheng-Ming Lin,Jyh-Horng Lin,Chyi-Ren Dow,Chang-Ming Wen

7. IBICA-2011-IS08-07

    An Interactive Power Spectrum Embedded Software and Its Application to HRV

    Meng-Ju Chiang

8. IBICA-2011-IS08-08

    An Efficient Cluster Construction Strategy For Wireless Sensor Networks

    Jong-Shin Chen,Kai-Cheng Chuang,Zong-Yi Lyu

Session C02: Bio-Computing and Applications (II)
(5 Papers) Chair: Ajith Abraham

1. IBICA-2011-0252

    Auto palmprint segmentation and sobel based detection for personal identification

    Shunyu Yang

2. IBICA-2011-0253

    A real time personal identification based on Fourier transform of palmprint

recognition

Shunyu Yang

3. IBICA-2011-0043

Analyzing Thermodynamics of DNA spaces

Maryam Nuser

4. IBICA-2011-0262

Neighborhood discriminant nearest feature line analysis for face recognition

Lijun Yan, Jeng-Shyang Pan

5. IBICA-2011-0245

A Cognitive Model to Mimic an Aspect of Low Level Perception of Sound-Modelling Reverberation Perception by Statistical Signal Analysis

Francis F.li

Session C03: Intelligent Computing and Application
(8 Papers) Chair: Chu Kiong Loo

1. IBICA-2011-IS09-02

Study and Implementation of RFID Eseals for Power Meters

Jinn-Ke Jan, Jun-Chao Lu, Jing-Min Wang, Yu-Yi Chen, Yeong-Lin Lai, Chih-Cheng Chen

2. IBICA-2011-IS09-03

Smart Classroom Roll Caller System with IOT Architecture

Ching Hisang Chang

3. IBICA-2011-IS09-04

A Private Escrow Protocol for Internet Will System Design

Chin-Ling Chen, Teng-Tai Chou, Yeong-Lin Lai, and Chih-Cheng Chen

4. IBICA-2011-IS09-05

Image Segmentation Method with Positron Emission Tomography Time Sequence Images

Chih-Yu Hsu, Yeong-Lin Lai, Chih-Cheng Chen, and Yu-Tzu Lee

5. IBICA-2011-0037

Grate Lobes (Side Lobes) Suppression for Sparse Arrays Using Genetic Algorithms

Songwen Li

6. IBICA-2011-0249

Genetic and Ant Algorithms Based Focused Crawler Design

Song Zheng

7. IBICA-2011-0263

An Agglomerative Fuzzy K-means Approach to Building Decision Cluster

Classifiers

Yanfeng Zhang, Yingqun Liu, Xutao Li, Yunming Ye, Xiaofei Xu

8. IBICA-2011-0266

Personalities Mining of Community Users Based on the Ontology Semantic analysis

Wei Yu, Ting Xiong

Poster Sessions:

1. IBICA-2011-0106

Data Maintenance and Control Strategy of Group Management

Yuchun Zhang, Zhiqiang Ye

2. IBICA-2011-IS06-01

A Mediator Exploiting Approach for Mining Indirect Associations from Web Click Streams

Wen-Yang Lin, Yi-Ching Chen