

Time	Dec. 16 (Thur.)		
08:30	Registration		
09:00	Opening Ceremony		
09:30	Opening Speech <i>First Lecture Room</i> Prof. Jenq-Neng Hwang		
10:20	Coffee Break		
10:40	Parallel Session 1		
	Digital Content, Digital Life, E-learning, Web Service, and HCI (I) <i>First Lecture Room</i> Chair: Prof. Chuan-Yu Chang	Information Security (I) <i>Second Lecture Room</i> Chair: Prof. Wen-Chung Kuo	Mobile Computing, Wireless Communications, and Vehicular Technology (I) <i>Third Lecture Room</i> Chair: Prof. Shuo-Cheng Hu
12:10	Lunch		
13:30	Parallel Session 2		
	Digital Content, Digital Life, E-learning, Web Service, and HCI (II) <i>First Lecture Room</i> Chair: Prof. Ching Lung Chang	Information Security (II) <i>Second Lecture Room</i> Chair: Prof. Narn-Yih Lee	Image Processing, Computer Graphics, and Multimedia Technologies (I) <i>Third Lecture Room</i> Chair: Prof. Din-Yuen Chan
15:00	Coffee Break		
15:20	Keynote Speech <i>First Lecture Room</i> Prof. Ljiljana Trajkovic		
16:10	Parallel Session 3		
	Digital Content, Digital Life, E-learning, Web Service, and HCI (III) <i>First Lecture Room</i> Chair: Prof. Wing-Kwong Wong	Information Security (III) <i>Second Lecture Room</i> Chair: Prof. Wu-Chuan Yang	Image Processing, Computer Graphics, and Multimedia Technologies (II) <i>Third Lecture Room</i> Chair: Prof. Jing Fung Chen
17:40	Parallel Session 4		
	Digital Content, Digital Life, E-learning, Web Service, and HCI (IV) <i>First Lecture Room</i> Chair: Prof. Yuan-Hsiang Chang	Information Security (IV) <i>Second Lecture Room</i> Chair: Prof. Wen-Shenq Juang	Image Processing, Computer Graphics, and Multimedia Technologies (III) <i>Third Lecture Room</i> Chair: Prof. Jing Fung Chen
18:40	Reception		

Time	Dec. 17 (Fri.)		
08:30	Registration		
09:00	Keynote Speech <i>First Lecture Room</i> Prof. Stephen Wong		
09:50	Coffee Break		
10:10	Parallel Session 5		
	Digital Content, Digital Life, E-learning, Web Service, and HCI (V) <i>First Lecture Room</i> Chair: Prof. Ku-Yaw Chang	Information Security (V) <i>Second Lecture Room</i> Chair: Prof. Chih-Hung Wang	Image Processing, Computer Graphics, and Multimedia Technologies (IV) <i>Third Lecture Room</i> Chair: Prof. Chia-Nian Shyi
11:40	Lunch		
13:00	Parallel Session 6		
	Mobile Computing, Wireless Communications, and Vehicular Technology (II) <i>First Lecture Room</i> Chair: Prof. Chun-Liang Hsu	Computer Architecture, SoC, and Embedded Systems (I) <i>Second Lecture Room</i> Chair: Prof. Ming-Chih Chen	Image Processing, Computer Graphics, and Multimedia Technologies (V) <i>Third Lecture Room</i> Chair: Prof. Phen-Lan Lin
14:30	Coffee Break		
14:50	Keynote Speech <i>First Lecture Room</i> Prof. Satish K. Tripathi		
15:40	Parallel Session 7		
	Mobile Computing, Wireless Communications, and Vehicular Technology (III) <i>First Lecture Room</i> Chair: Prof. Chia-Ho Ou	Computer Architecture, SoC, and Embedded Systems (II) <i>Second Lecture Room</i> Chair: Prof. Ming-Chih Chen	Artificial Intelligence, Knowledge Discovery, and Fuzzy Systems (I) <i>Third Lecture Room</i> Chair: Prof. Been-Chian Chien
17:10	Parallel Session 8		
	Mobile Computing, Wireless Communications, and Vehicular Technology (IV) <i>First Lecture Room</i> Chair: Prof. Sok-Ian Sou	Computer Architecture, SoC, and Embedded Systems (III) <i>Second Lecture Room</i> Chair: Prof. Ing-Chao Lin	Artificial Intelligence, Knowledge Discovery, and Fuzzy Systems (II) <i>Third Lecture Room</i> Chair: Prof. Jung Yi Lin
18:30	Banquet		

Time	Dec. 18 (Sat.)		
08:30	Registration		
09:00	Keynote Speech <i>First Lecture Room</i> Prof. Kwei-Jay Lin		
09:50	Coffee Break		
10:10	Parallel Session 9		
	Computer Networks and Web Technologies (I) <i>First Lecture Room</i> Chair: Prof. Yi-Sheng Su	Biomedical Informatics (I) <i>Second Lecture Room</i> Chair: Prof. Rong-Ming Chen	Peer to Peer, Grid, and Cloud Computing (I) <i>Third Lecture Room</i> Chair: Prof. Ching-Hung Chang
11:40	Lunch		
13:00	Parallel Session 10		
	Computer Networks and Web Technologies (II) <i>First Lecture Room</i> Chair: Prof. Hui Kai Su	Biomedical Informatics (II) <i>Second Lecture Room</i> Chair: Prof. Sheng-Fu Liang	Peer to Peer, Grid, and Cloud Computing (II) <i>Third Lecture Room</i> Chair: Prof. Kuo-Chan Huang
14:30	Coffee Break		
14:50	Parallel Session 11		
	Software Engineering, SOA, and Databases (I) and Computer Networks and Web Technologies (III) <i>First Lecture Room</i> Chair: Prof. Chin-Feng Fan	Biomedical Informatics (III) <i>Second Lecture Room</i> Chair: Prof. Shyh-Hau Wang	Peer to Peer, Grid, and Cloud Computing (III) <i>Third Lecture Room</i> Chair: Prof. Tsung Lee
16:20	Parallel Session 12		
	Software Engineering, SOA, and Databases (II) <i>First Lecture Room</i> Chair: Prof. Chung Yung		Artificial Intelligence, Knowledge Discovery, and Fuzzy Systems (III) <i>Third Lecture Room</i> Chair: Prof. Jiann-Shu Lee
17:50	Closing		

Parallel Session 1

Time: Thursday, Dec. 16, 2010, 10:40-12:10

Digital Content, Digital Life, E-learning, Web Service, and HCI (I)

Facial Expression Recognition Using Contourlets and Regularized Discriminant Analysis-based Boosting Algorithm

Chien-Cheng Lee and Cheng-Yuan Shih

Abnormal Behavior Detection with Fuzzy Clustering for Elderly Care

Hui-Huang Hsu, Kun-Chi Lu, and Makoto Takizawa

Application of Support Vector Regression for Physiological Emotion Recognition

Chuan-Yu Chang, Jun-Ying Zheng, Chi-Jane Wang, and Pau-Choo Chung

A Music Recommendation System with Consideration of Personal Emotion

Chuan-Yu Chang, Chun-Yen Lo, Chi-Jane Wang, and Pau-Choo Chung

Using Salient Region Constraints on Active Appearance Model Initialization for Facial Feature Extraction

Yuan Wong and Pau-Choo Chung

Information Security (I)

A New Matrix Decode Scheme for Error Diffusion on Visual Share Images

Bor-Woei Lee, Hong-Hao Chena, Chih-Chiang Lee, and Tsung-Hung Lin

Basic Unit Layer Rate Control for Video Security

Tao Yan, Anyuan Deng, Woei-Jiunn Tsaur, Jia-Hong Li, and Hsin-Chieh Tsai

A Robust Watermarking Scheme Based on Singular Value Decomposition and Quantization Technique

Hsien-Chu Wu, Ruen-Jie Jang, and Yu-Chi Liu

A Robust Oblivious Watermarking Technique

Huang-Chi Chen, Yu-Wen Chang, and Rey-Chue Hwang

Adaptive Weighting Color Palette Image

Wen-Chung Kuo, Wei-De Syu, and Jiin-Chiou Cheng

Mobile Computing, Wireless Communications, and Vehicular Technology (I)

Feasibility study of using FM radio for data transmission in a Vehicular Network

Kun-Chan Lan and Mei-Wen Li

RISE: Ripple Sink Exploration in Wireless Sensor Network

Wei-Cheng Chu and Kuo-Feng Ssu

Cross-layer Cooperative Routing for Vehicular Networks

Wei-Hui Chen, Ai-Chun Pang, Shuo-Cheng Hu, and Chung-Tsen Fan Chiang

Design of Fast Restoration Multipath Routing in VANETs

Cheng-Shiun Wu, Shuo-Cheng Hu, and Chih-Shun Hsu

MAODV-Based Multisource Multicast Routing with Fast Route Recovery Scheme in MANETs

Chia-Hui Huang, Chun-Ting Wu, Kai-Wei Ke, and Ho-Ting Wu

The Scheduling Algorithm in Road Side Unit for Vehicular Ad Hoc Applications

Ching-Lung Chang and Jia-Ruei Luo

Parallel Session 2

Time: Thursday, Dec. 16, 2010, 13:30-15:00

Digital Content, Digital Life, E-learning, Web Service, and HCI (II)

A ZigBee Network Application in Emergency Exit Guiding

Jinn-Kwei Guo, Churng-Jou Tsai, Chien-Jen Wang, and Chun-Lin Lu

QoS-based Unequal Frame Protection for Video Streaming

Ching Lung Chang and Huan-Yao Kang

A Confirmatory Study of On-line Communication Satisfaction

Chao-Hsi Chang

Detection and Recognition of Speed Limit Signs

Yun Shin Lee

Information Security (II)

An Automated Vulnerability Scanner for Injection Attack Based on Injection Point

Jan-Min Chen and Chia-Lun Wu

The Research of Botnet Detection and Prevention

Narn-Yih Lee and Hung-Jen Chiang

Cost-Sensitive Defense Strategy Selection for Web Applications

Jan-Min Chen, Fan-Yu Kuan, and Jin-Cherng Lin

Quantum Key Distribution and Denial-of-Service: Using Strengthened Classical Cryptography as a Fallback Option

Peter Schartner and Stefan Rass

Multilevel Data Hiding for Embedding Reversibility upon Improving Histogram Shifting

Shiuh-Jeng Wang, Chi-Yao Weng, and Dushyant Goyal

Image Processing, Computer Graphics, and Multimedia Technologies (I)

Rate Controlling Based on Effective Source-Complexity Metrics Appropriated to H.264/AVC

Din-Yuen Chan, Zih-Siang Lin, and Pei-Shan Wu

Bio-inspired JPEG XR CODEC Design for Lossless HDR Biomedical Image

Yi-Shen Shih, Wen-Chih Zhang, Hsuan Shen, Yi-Hsiang Yang, Shung-Ting Sun, Chi-Chang Wu, Yaw-Chern Lee, and Sung-Shine Lee

Image Encryption Algorithm Based on Chaotic Maps

Mao-Yu Huang, Yueh-Min Huang, and Ming-Shi Wang

An Easy Dominant Color Extraction and Edge Valley Histogram for Image Retrieval

Shyr-Shen Yu, Shiow-Yuan Huang, Ying-Hsin Pan, and Hsien-Chu Wu

A Patch-based Image Inpainting Based on Structure Consistence

Hui-Yu Huang and Chun-Nan Hsiao

Parallel Session 3

Time: Thursday, Dec. 16, 2010, 16:10-17:40

Digital Content, Digital Life, E-learning, Web Service, and HCI (III)

A Study of Web 2.0 Based Digital Archives System Using Kano Model

Chueh Ju Chu, Shu Lin Wang, and Yi Cheng Lai

Web-based Interactive Module with Multiple Representations for Learning Geometry Theorem Proving

Hsi-Hsun Yang, Sheng-Kai Yin, and Wing-Kwong Wong

Anti-spam Email System in Facebook

I-Cheng Liang, Yuen-Fu Chen, Guo-Tan Liao, and Bo-Chao Cheng

Visualization of the Taiwanese Buddhism Web Based on Social Network Analysis

Jia-Jane Shuai, Hsin-Chih Chen, and Chia-Hao Chang

Exploring User-Centric Interpersonal Relationships in Social Networks Using Information Visualization Techniques

Yi-Lin Ho, Pao-Yung Chang, Ing-Xiang Chen, and Cheng-Zen Yang

Information Security (III)

ID-Based Online/Offline Signature From Pairings

Tzong-Sun Wu, Yih-Sen Chen, and Kong-Yi Lin

Secure Electronic Business Applications in Mobile Agent Based Networks Using Elliptic Curve Cryptosystems

Woei-Jiunn Tsaaur and Hsin-Chieh Tsai

On the Performance of Dimitrov-Jullien-Miller Recoding Algorithm

Wu-Chuan Yang, Ching-Po Hung, and Jeng-Jung Wang

A Robust Password-based Remote User Authentication Scheme Using Bilinear Pairings without Using Smart Cards

Yi-Pin Liao and Shuenn-Shyang Wang

An Authentication Scheme Balancing Authenticity and Transmission for Wireless Sensor Networks

Hung-Min Sun, Shih-Ying Chang, Alcides Bernardo Tello, and Yen-Hsuen Chen

Image Processing, Computer Graphics, and Multimedia Technologies (II)

Adaptive Template-matching Method for Recognition of Low-resolution License Number

Yi-Chong Zeng and Jing Fung Chen

Real-Time Face Recognition Techniques Used for the Interaction Between Humans and Robots

Chin-Shyurng Fahn and Yu-Ta Lin

A Self-adaptive Nonuniformity Correction Algorithm for Infrared Images Combined with Two-point Correction Along the Rim

Chongliang Liu, Weiqi Jin, Yan Chen, Bin Liu, Yang Cao, and Xiu Liu

Road Speed Sign Recognition Using Edge-voting Principle and Linear Vector Quantization Network

Hsin-Han Chiang, Yen-Lin Chen, Wen-Qing Wang, and Tsu-Tian Lee

Pedestrian Detection in Images by Integrating Heterogeneous Detectors

Yi-Hsin Liu, Tz-Huan Huang, Augustine Tsai, Wen-Kai Liu, Jui-Yang Tsai, and Yung-Yu Chuang

Parallel Session 4

Time: Thursday, Dec. 16, 2010, 17:40-18:40

Digital Content, Digital Life, E-learning, Web Service, and HCI (IV)

Light up! Creating an Interactive Digital Artwork - Based on Arduino and Max/MSP Design

Yu Chen Yang, Yi Jen Tseng, Sheng-Tien Wang, and Hao-Chiang Koong Lin

Internet of Toys: An e-Pet Overview and Proposed Innovative Social Toy Service Platform

Wen-Nan Wang, Vivian Kuo, Chung-Ta King, and Chiu-Ping Chang

Residual Noise Removal on Beamforming for Robust Hands-free Speech Recognition

Wei-Tyng Hong

A Real-Time Computer Graphical User Interface for Advanced Boiling Water Reactor Case Comparison Using MAAP Software

Yu-Chen Chen, Yuan-Hsiang Chang, and Te-Chuan Wang

Information Security (IV)

An Efficient and Privacy Protection Multi-server Authentication Scheme for Low-cost RFID Tags

Wen-Sheng Juang, Hui-Chin Tseng, and Yun-Yu Shue

Cryptanalysis of a More Secure Remote User Authentication Scheme

Wen-Bing Horng, Cheng-Ping Lee, and Jian-Wen Peng

A Secure and Privacy Protection Digital Goods Trading Scheme in Cloud Computing

Wen-Sheng Juang and Yun-Yu Shue

Efficient Fair Content Exchange in Cloud Computing

Chun-I Fan, Wen-Sheng Juang, and Ming-Te Chen

Image Processing, Computer Graphics, and Multimedia Technologies (III)

Immersive Surveillance for Total Situational Awareness

Meng-da Hsieh, Shi-bin Chen, Yu-shan Cai, Yung-Fu Chen, and John Y. Chiang

Topview Transform Model for The Vehicle Parking Assistance System

Chien-Chuan Lin and Ming-Shi Wang

A Point-Based Localization with Error Analysis

Kuo-Hua Lo, Jen-Hui Chuang, Yueh-Hsun Hsieh, and Hon-Yue Chou

Integrated Google Maps and Smooth Street View Videos for Route Planning

Chi Peng, Bing-Yu Chen, and Chi-Hung Tsai

Security Monitoring around a Video Surveillance Car with a Pair of Two-camera Omni-directional Imaging Devices

Pei-Hsuan Yuan, Kuo-Feng Yang, and Wen-Hsiang Tsai

Parallel Session 5

Time: Friday, Dec. 17, 2010 ,10:10-11:40

Digital Content, Digital Life, E-learning, Web Service, and HCI (V)

Employing Augmented Reality to Create Digital Artworks to Present Interactive Poem

Min-Chai Hsieh and Hao-Chiang Koong Lin

The Application of Face Recognition to Classroom Locale

Yung-Lung Kuo, Chuan-Ren Wang, and Jiann-Shu Lee

Perception of Motion Traces as a Spatial Concepts Activity for Children with Learning Disabilities

Chien-Yu Lin, Pi-Hsia Hung, Ho-Hsiu Lin, and Chien-Chi Lin

An Information Technology-Applied Education Model with Interactive Response Systems

Wang-Kun Chen, Yih-Ruey Juang, Sheng-Hua Chang, and Sue-Huei Chang

Online Math Word Problem Test System Based on Dynamic Item Generation Mechanism

Ku-Yaw Chang, Wen-Ping Chuang, Yi-Chang Li, and Yu-Chun Lin

Investigation of Three-Dimensional Human Anatomy Applied in Mobile Learning

Hsiu-Mei Huang, Young-Long Chen, and Kuan-Yu Chen

Information Security (V)

The Design of the En-route Filtering Mechanism with Immediately Lightweight Authentication for Wireless Sensor Networks

Chih-Hung Wang and Tzu-Chieh Wei

CDS: Concealed Data Sorting Scheme in Wireless Sensor Networks

Yue-Hsun Lin, Bing-Zhe He, Hung-Min Sun, and Yen-Hsueh Chen

A Novel Metropolitan Area Network Service Model with Free Use and Privacy Protection

Yu-Yi Chen, Jun-Chao Lu, Chih-Chiang Lin, Jinn-Ke Jan, and Der-Chen Huang

Web Botnet Detection Based on Flow Information

Chia-Mei Chen, Ya-Hui Ou, and Yu-Chou Tsai

A Detection Scheme for Flooding Attack on Application Layer Based on Semantic Concept

Chu-Hsing Lin, Chen-Yu Lee, Jung-Chun Liu, and Ching-Ru Chen

Design and Implementation of a Network Forensics System for Linux

Hong-Ming Wang and Chung-Huang Yang

Image Processing, Computer Graphics, and Multimedia Technologies (IV)

Global Mesh Optimization with Automatic Surface Structure Preservation

Chien-Hsing Chiang, Kun-Huan Ting, Bin-Shyan Jong, and Tsong-Wuu Lin

A Study of 3D Feature Tracking and Localization Using A Stereo Vision System

Li-Wei Zheng, Yuan-Hsiang Chang, and Zhen-Zhong Li

Robust Multiframe Super-Resolution Reconstruction Based on Regularization

Yan Chen, Weiqi Jin, Lingxue Wang, Chongliang Liu, and Weili Chen

Design and Implementation of Augmented Reality System Collaborating with QR Code

Jian-tung Wang, Chia-Nian Shyi, Ting-Wei Hou, and C.P. Fong

Ocean Wave Simulation in Real-time Using GPU

Chin-Chih Wang, Jia-Xiang Wu, Chao-En Yen, Pangfeng Liu, and Chuen-Liang Chen

Parallel Session 6

Time: Friday, Dec. 17, 2010, 13:00-14:30

Mobile Computing, Wireless Communications, and Vehicular Technology (II)

Load Analysis for MTC Devices in Idle Mode or Detached State

Shiann-Tsong Sheu, Youn-Tai Lee, and Shaojung Lu

Dynamic Water Gate Assignment Scheme for Data Aggregation in Long-Thin Sensor Networks

You-Chiun Wang, Che-Hsi Chuang, Yu-Chee Tseng, and Chien-Chung Shen

Active & Intelligent Energy-Saving System Designed with WSN Modules and Efficiency Analysis

Chun-Liang Hsu and Sheng-Yuan Yang

HMT: A Hybrid Mesh Tree Approach in Forming Bluetooth Networks

Chih-Min Yu and Yi-Wei Chiu

Direction Based Routing Strategy to Reduce Broadcast Storm in MANET

Hung-Chin Jang and Chih-Chia Hung

Developing a Mobile Learning System to Community-based Learning for Rural Elementary School Students

Wan Jen Chang, Zong-Mu Yeh, and Kim Joan Chen

Computer Architecture, SoC, and Embedded Systems (I)

Object Oriented Network-On-Chip Modeling

Chi-Fu Chang and Yarsun Hsu

Hardware Accelerated XML Parsers with Well Form Checkers and Abstract Classification Tables

Sheng-De Wang, Chun-Wei Chen, Michael Pan, and Chih-Hao Hsu

Using Pipeline Architecture Technique for Implementing FPGA-Based Firewall

Saeed Ezzati, Hamid Reza Naji, and Amir Chegini

An Open Electronic System Level Multi-SPARC Virtual Platform and Its Toolchain

Pin-Hao Fang, Yu-Lin Wang, Zhong-Ho Chen, Alvin W. Y. Su, and Ce-Kuen Shieh

Design and Implementation of a NoC Supporting Priority-Based Communications for Many-Core SoCs

Kuei-Chung Chang, Ing-Ming Liao, and Bo-Yi Shiu

File-Based Sharing For Dynamically Compiled Code On Dalvik Virtual Machine

Yao-Chih Huang, Yu-Sheng Chen, Wu Yang, and Jean Jyh-Jiun Shann

Image Processing, Computer Graphics, and Multimedia Technologies (V)

An Effective Dental Work Extraction and Matching Method for Bitewing Radiographs

Chun-Hung Kuo and Phen-Lan Lin

Improvement and Evaluation of Visual Saliency Based on Information Theory

Anh Cat Le Ngo, Li-Minn Ang, Kah Phooi Seng, and Guoping Qiu

Selecting Forensic Features for Robust Source Camera Identification

Yongjian Hu, Chang-Tsun Li, and Changhui Zhou

Co-articulation Generation Using Maximum Direction Change and Apparent Motion for Chinese Visual Speech Synthesis

Chung-Hsien Wu, Chung-Han Lee, and Ze-Jing Chuang

Improved Voice Activity Detection for Speech Recognition System

Siew Wen Chin, Kah Phooi Seng, Li-Minn Ang, and King Hann Lim

Parallel Session 7

Time: Friday, Dec. 17, 2010, 15:40-17:10

Mobile Computing, Wireless Communications, and Vehicular Technology (III)

The Study of Dynamic Navigation with WAVE/DSRC in VANETs

Shu-Ping Lu, Kuan-Ming Li, and Cheng-Yi Hsieh

A Time Slot Assignment Scheme for Multi-Path QoS Multicast Routing in Mobile Ad Hoc Networks

Neng-Chung Wang and Chao-Yang Lee

Moving Direction Based Greedy Routing Algorithm for VANET

Hung-Chin Jang and Hsiang-Te Huang

Efficient Localization Scheme with Mobile Anchors in Wireless Sensor Networks

Yeong-Sheng Chen and Tang-Te Lo

The Study of Interference-free Multicast Using Non-orthogonal Channels for Multi-Radio and Multi-channel Wireless Mesh Networks

Wen-Lin Yang and Wei-Tsung Huang

Computer Architecture, SoC, and Embedded Systems (II)

Strip-based Watershed Using Multiple-bank Memory Storage

Lee Seng Yeong, Li-Minn Ang, and Kah Phooi Seng

Cascaded Broadcasting for Test Data Compression

Cheng-Ho Chang, Lung-Jen Lee, Wang-Dauh Tseng, and Rung-Bin Lin

2ⁿ Pattern Run-Length for Test Data Compression

Cheng-Ho Chang, Lung-Jen Lee, Wang-Dauh Tseng, and Rung-Bin Lin

Energy-Efficient Tasks Scheduling Algorithm for Dual-core Real-time Systems

Wann-Yun Shieh and Bo-Wei Chen

Design and Implementation of Digital TV Widget for Android on Multi-core Platform

Yu-Sheng Lu, Chin-Ho Lee, Hung-Yen Weng, and Yueh-Min Huang

UDispatch+: A User Dispatching Tool with Automatic Binding

Tang-Hsun Tu, Yuan-Cheng Lee, Chih-Wen Hsueh, and Yi-Sheng Liu

Artificial Intelligence, Knowledge Discovery, and Fuzzy Systems (I)

Aggregate Two-way Co-Clustering for Ads and User Analysis for Online Advertisements

Meng-Lun Wu, Chia-Hui Chang, Rui-Zhe Liu, and Teng-Kai Fan

A Discriminant based Document Analysis for Text Classification

Yi-Xian Lin and Been-Chian Chien

Word Ordering Entropy Difference of English and Chinese Texts

Kiwing To, C. S. Wang, and Tyne Liang

Disambiguation for Polyphones of Chinese Based on Two-Pass Unified Approach

Feng-Long Huang, Jun-Hong Lin, and Xin-Wei Lin

A Multi-block Scheme for Searching Source Codes

Sheng-Kuei Hsu and Shi-Jen Lin

A New Ubiquitous Interface Agent for Cloud Computing – Example on Bluetooth, GPS, and Zigbee Techniques

Sheng-Yuan Yang, Dong-Liang Lee, Kune-Yao Chen, and Chun-Liang Hsu

Parallel Session 8

Time: Friday, Dec. 17, 2010, 17:10-18:30

Mobile Computing, Wireless Communications, and Vehicular Technology (IV)

Path Selection with Zone Load-Balance for IEEE 802.16j T-MMR Networks

Yi-Cheng Chan and Tai-Ta Chen

Credit Allocation Schemes for Quality-class-oriented Services in Next Generation Networks

Hsiu-Fang Ho, Sok-Ian Sou, and Jeu-Yih Jeng

Scheduling for Ordered Query Services in Multi-channel Data Broadcast Systems

Yu-Hsien Lin, Yi-Syuan Jiang, and Wei-Mei Chen

People Help People: A Pattern-matching Localization with Inputs from User Community

Chi-Chung Lo, Shih-Chin Lin, Sheng-Po Kuo, Yu-Chee Tseng, Shin-Yun Peng, Shang-Ming Huang, Yu-Neng Hung, and Chin-Fu Hung

Intra Color-shape Classification for Traffic Sign Recognition

King Hann Lim, Kah Phooi Seng, and Li Minn Ang

Computer Architecture, SoC, and Embedded Systems (III)

Cost-Effective Branch Prediction by Combining Hedging and Filtering

Yeong-Chang Maa, Mao-Hsu Yen, Shu-Ming Kuo, and Guan-Luen Lee

Evaluating and Improving Variable Length History Branch Predictors

Yeong-Chang Maa, Mao-Hsu Yen, and Yu-Tang Wang

A Hardware Invocation Mechanism for Reconfigurable Embedded System

Jih-Ching Chiu, Kai-Ming Yang, and Ta-Li Yeh

Transaction-level Error Susceptibility for Bus-based System-on-Chip: From Single-bit to Multi-bit

Shi-Qun Zheng and Ing-Chao Lin

Power Reduction by Register Relabeling for Crosstalk-Toggling Free Instruction Bus Coding

Tsung-Hsi Weng, Chun-Han Lin, Jean Jyh-Jiun Shann, and Chung-Ping Chung

Design of an Asynchronous Ring Bus Architecture for Multi-Core Systems

Kai-Ming Yang, Kin-Fong Lei, and Jih-Ching Chiu

Artificial Intelligence, Knowledge Discovery, and Fuzzy Systems (II)

Combining Genetic Algorithm and First Order Taylor Series Iterative Searching DOA Estimation for the CDMA System

Jui-Chung Hung and Chih-Lin Yu

A GA-ANN Model for Air Quality Predicting

Hong Zhao, Jie Zhang, Kai Wang, Zhi peng Bai, and Aixie Liu

Fitness Enhancement of Layered Architecture Genetic Programming

Jung Yi Lin

A PIP-based Evolutionary Approach for Time Series Segmentation and Pattern Discovery

Hsieh-Hui Yua, Vincent S. Tseng, Chun-Hao Chen, and Tzung-Pei Hong

Pattern Recognition of Business Failure by Autoassociative Neural Networks in Considering the Missing Values

Ming-Hua Chen

Parallel Session 9

Time: Saturday, Dec. 18, 2010, 10:10-11:40

Computer Networks and Web Technologies (I)

Cooperative-Stream Control Transmission Protocol (C-SCTP)

Chung-Ming Huang and Ming-Sian Lin

Measurement of Flow Burstiness by Fractal Technique

Hsiao-Wen Tin, Shao-Wei Leu, and Shun-Hsyung Chang

Performance Enhancement in Wireless Sensor Network Clustering

I-Hui Li, I-En Liao, and Feng-Nien Wu

Distributed Quality of Service Routing in Multihop TDMA Ad Hoc Networks

Yi-Sheng Su, Tsung-Cheng Wu, and Chung-Hsuan Wang

A Novel Rate Adaptation Algorithm in IEEE 802.11 Wireless LANs

Zanyu Chen, Tsungnan Lin, and Pochiang Lin

Performance Assessment between Tree- and Star-ring-based EPONs

I-Shyan Hwang, Zhong-Yue Lee, and Zen-Der Shyu

Biomedical Informatics (I)

Designing a Dedicated Database for Eukaryotic Algae Species – A Case Study on Cross-species Comparison of P450 Enzymes

Tsan-huang Shih, Tsai-Ling Lee, Kuan-Yuan Chang, Yu-Ping Hsu, and Tun-Wen Pai

A Novel Method for Mining Temporally Dependent Association Rules in Three-Dimensional Microarray Datasets

Yu-Cheng Liu, Chao-Hui Lee, Wei-Chung Chen, J. W. Shin, Hui-Huang Hsu, and Vincent S. Tseng

Agent-based Optimization of Biological Response Networks

Chien-Feng Huang, Yu-Feng Lin, and Vincent S. Tseng

A Hybrid Algorithm of Finding Features for Clustering Sequential Data

Ye-In Chang, Lee-wen Huang, and Hsi-Mei Chang

PCR-CTPP Primer Design Using Chaotic Inertia Weight Particle Swarm Optimization

Cheng-Hong Yang, Yu-Huei Cheng, and Li-Yeh Chuang

Protein Surface Search in DNA-binding Protein Prediction by Delaunay Triangulation Modeling

Po-Han Cheng, Hung-Yu Chen, and Hung-Yu Kao

Peer to Peer, Grid, and Cloud Computing (I)

Increasing Service Availability for Resource Constrained Nodes in Peer-to-peer Communication Systems

Yun-Shuai Yu, Lun-Yuan Chang, and Ce-Kuen Shieh

Dynamic Layer Adjustments for SVC Segments in P2P Streaming Networks

Tsang-Ling Sheu and Yan-Hsiang Wang

A Gradient Descent Orthogonal Search Algorithm for Motion Estimation

Hsin-Jung Wu, Shu-Jhen Fan Jiang, and Chia-Hung Yeh

Implementation of Action Recognition Algorithm on Multiple-Streaming Multimedia Unit

Jih-ching Chiu, Tzu-Chun Lin, and Yu-Liang Chou

Stochastic Resonance Effects of Human Visual Perception

Chi-Wen Hsieh, Tien-Chun Lin, Tai-Lang Jong, and Chih-Yen Chen

Parallel Session 10

Time: Saturday, Dec. 18, 2010, 13:00-14:30

Computer Networks and Web Technologies (II)

The Design of Intelligent Mobile Tourism Service System

Jinn-Shing Cheng, Hung-Wei Hsiang, and Wer-Chih Wu

Mobility-Aware Security Management for Heterogeneous Wireless Networks

Wen-Hsu Hsiao, Hui-Kai Su, Kim-Joan Chen, Rui-Hong Zheng, and Jian-Syun Chen

An Adaptive Coverage Adjustment Mechanism for LTE Femtocells

Jui-Ming Chen, Li-Der Chou, and Yu-Hong Lin

A Framework Using Fingerprinting for Signal Overlapping-Based Method in WLAN

Wei Shi-Sue, Shiuhyng Shieh, Bing-Han Li, Michael Cheng Yi Cho, and Chin-Wei Tien

Biomedical Informatics (II)

Estimation and Prediction of Propafenone on The Termination of Atrial Fibrillation by State-space Models

Chin-En Kuo, Shao-Sheng Lu, Chih-Sheng Lin, and Sheng-Fu Liang

How Much Resting Time Is Required before Taking an ECG Experiment?

Yaw-Chern Lee, Sung-Shine Lee, Wen-Chih Zhang, Yi-Shen Shih, Yi-Hsiang Yang, Hsuan Shen, Chi-Chang Wu, Shung-Ting Sune, Bor-Jen Lee, and Sheng-Chieh Huang

Implementing RAID-3 on Cloud Storage for EMR System

Pao-Ching Chen, Chih-Pin Freg, Ting-Wei Hou, and Wei-Guang Teng

Applying Fuzzy Techniques to Select Suitable Scenic Spots for Medical Care

Yu-Shih Lin, Ching-Pao Chang, Chia-Hao Kuo, and Chih-Ping Chu

A Study on Paragraph Ranking and Recommendation by Topic Information Retrieval from Biomedical Literature

Heng-Hui Liu, Yi-Ting Huang, and Jung-Hsien Chiang

Peer to Peer, Grid, and Cloud Computing (II)

Dynamic Multi-channel Multi-path Routing Protocol for Wireless Mesh Networks

Kai-Ming Yang, Ming-Shiou Wu, Po-Hsun Pan, and Jih-Ching Chiu

An Efficient Distributed Hierarchical-Clustering Algorithm for Large Scale Data

Cheng-Hsien Tang, An-Ching Huang, Meng-Feng Tsai, and Wei-Jen Wang

A Threshold-Based Method for Selfish Nodes Detection in MANET

Lien-Wen Wu and Rui-Feng Yu

A Mapreduce Programming Framework Using Message Passing

Yu-Fan Ho, Sih-Wei Chen, Chang-Yi Chen, Yung-Ching Hsu, and Pangfeng Liu

An ART-Based ASN-GW Relocation Algorithm for WiMAX Networks

Tzu-Hsing Yang, Rong-Hong Jan, and Chien Chen, and Yu-Hsiang Lin

Parallel Session 11

Time: Saturday, Dec. 18, 2010, 14:50-15:40

Software Engineering, SOA, and Databases (I) and Computer Networks and Web Technologies (III)

A Dynamic Heuristic Algorithm for Offset Assignment

Tong-Chai Wang and J. Ramanujam

A GIS-based Simulator for CIIP Interdependency Analysis

Ching-Ting Lin, Chin-Feng Fan, and Albert Yih

Construction of an Ontology-based Common Criteria Review Tool

Sheng-Chieh Chang and Chin-Feng Fan

Provisioning an End to End QoS for VoIP over WiMAX Network

Chi-Ming Lin and Shuoh Ren Tsai

Use of Shrinking Quorums to Improve Efficiency of Replication Protocols

Qurat-ul-Ain Inayat Tariq

Biomedical Informatics (III)

Assessment of the Carpal Tunnel Syndrome by High Frequency Ultrasound Images of the Wrist: A Feasibility Study

Yi-Hsun Lin, Mei-Yu Hsieh, Chung-Chi Lin, and Shyh-Hau Wang

Fast Parallel Analysis of Dynamic Contrast-Enhanced Magnetic Resonance Imaging on GPGPU

Ta-Kang Yen and Bo-Cheng Charles Lai

Segmentation of Flexor Tendons within Carpal Tunnel from Magnetic Resonance Image

Hsin-Chen Chen, Yung-Nien Sun, Yi-Ying Wang, Cheng-Hsien Lin, Chien-Kuo Wang, and I-Ming Jou

Automatic Tongue Feature Extraction

Yu-Cheng Hsu, Ying-Ching Chen, Lun-Chien Lo, and John Y. Chiang

A Novel 500 samples/sec 4 by 4 Photoplethysmography (PPG) Array Based Cosmetic Chip Design

Hsuan Shen, Yi-Hsiang Yang, Chi-Chang Wu, Shung-Ting Sune, Yaw-Chern Lee, Sung-Shine Lee, Wen-Chih Zhang, Yi-Shen Shih, Sheng-Chieh Huang, Yu-Chieh Huang, and Lei-Chun Chou

Peer to Peer, Grid, and Cloud Computing (III)

Tightly-coupled Multithreaded Computation of a Power Flow Analysis Algorithm

Tsung Lee and Yao-Yi Huang

Using Group Fine-grained Locking Scheme in Software Transactional Memory for Multiprocessing Systems

Ting-Han Shen and Chih-Ping Chu

Energy Efficient Multicast Scheduling for IEEE 802.16e Wireless Metropolitan Area Networks

Zi-Tsan Chou, Chia-Ching Lin, Yu-Hsiang Lin, and Rong-Hong Jan

Transmission Design in Soft-Decoded-and-Forward (SDF) TCM-based Cooperative Communication Systems

Min-Kuan Chang, Shi-Yong Lee, Yuming Chou, and Chia-Chun Chang

Processor Allocation Policies for Reducing Resource Fragmentation in Multi-Cluster Grid and Cloud Environments

Kuo-Chan Huang and Kuan-Po Lai

Parallel Session 12

Time: Saturday, Dec. 18, 2010, 15:40-17:10

Software Engineering, SOA, and Databases (II)

Automatic Black-Box Method-Level Test Case Generation Based on Constraint Logic Programming

Yi-Tin Hu and Nai-Wei Lin

Incorporating Data Abstraction in CRC to Simplify Method Interface

Jun-Ren Chen, Mu-Je Wu, and Jason Jen-Yen Chen

A Graph-Based Algorithm of Mostly Incremental Garbage Collection for Active Object Systems

Chung Yung, Jheng-Jyun Syu, and Shiang-Yu Yang

A Lock-free Cache-friendly Software Queue Buffer for Decoupled Software Pipelining

Wen Ren Chen, Wu Yang, and Wei Chung Hsu

Causal Analysis Using Program Patterns

Ko-Li Cheng, Ching-Pao Chang, and Chih-Ping Chu

Artificial Intelligence, Knowledge Discovery, and Fuzzy Systems (III)

A Hybrid Model for Portfolio Selection Based on Grey Relational Analysis and RS Theories

Kuang Yu Huang, Chuen-Jiuan Jane, and Ting-Cheng Chang

A Self-Adaptation Approach to Fuzzy-Go Search Engine

Yu-Cheng Lin, Lien-Fu Lai, Chao-Chin Wu, and Liang-Tsung Huang

Non-linear Modeling of a Twin Rotor System Using Particle Swarm Optimization

Jakia Afruz and MS Alam

Multilingual Patent Knowledge Discovery

Aviv Segev and Jussi Kantola

Applying Particle Swarm Optimization to Estimate Software Effort by Multiple Factors Software Project Clustering

Jin-Cherng Lin and Han-Yuan Tzeng

User-Preference-Oriented Multi-Objective Optimization Algorithm

Zhi-Han Chen, Zhi-Qin Zhuang, Fei-Hsiang Huang, and Jiann-Shu Lee