



# The Third International Conference on Intelligent Information Hiding and Multimedia Signal Processing

## Conference Program

Conference date: November 26-28, 2007

Conference venue: The Splendor Kaohsiung, Kaohsiung, Taiwan

### November 26, 2007

Opening .....	08:40-09:00
Keynote speech I .....	09:00-10:00
Break .....	10:00-10:20
Oral Session A01-A04 .....	10:20-12:05
Poster Session P01 .....	10:20-12:05
Lunch .....	12:05-13:30
Oral Sessions A05-A08 .....	13:30-15:15
Poster Session P02 .....	13:30-15:15
Break .....	15:15-15:40
Oral Sessions A09-A12 .....	15:40-17:25
Poster Session P03 .....	15:40-17:25
Dinner .....	18:30-20:30

### November 27, 2007

Keynote speech II .....	09:00-10:00
Break .....	10:00-10:20
Oral Session B01-B04 .....	10:20-12:05
Poster Session P04 .....	10:20-12:05
Lunch .....	12:05-13:30
Oral Sessions B05-B08 .....	13:30-15:15
Poster Session P05 .....	13:30-15:15
Break .....	15:15-15:40
Oral Sessions B09-B12 .....	15:40-17:25
Poster Session P06 .....	15:40-17:25
Banquet .....	18:00-20:30

### November 28, 2007

Keynote speech III .....	09:00-10:00
Break .....	10:00-10:20
Oral Session C01-C04 .....	10:20-12:05
Poster Session P07 .....	10:20-12:05
Lunch .....	12:05-13:30
Oral Sessions C05-C08 .....	13:30-15:15
Poster Session P08 .....	13:30-15:15
Break .....	15:15-15:40
Oral Sessions C09-C12 .....	15:40-17:25
Poster Session P09 .....	15:40-17:25
Banquet .....	18:30-20:30

## Session List

### Oral Sessions

- A01: Novel Approaches to Multimedia Applications
  - A02: Intelligent Systems for Image and Signal Processing
  - A03: Computation Intelligence for Image Processing and Pattern Recognition
  - A04: Recent Advances in Multimedia Coding and Retrieval: Algorithms and Applications (I)
  - A05: Networking and Information Security
  - A06: Digital Watermarking and Multimedia Security
  - A07: Computer Graphics (I)
  - A08: Recent Advances in Multimedia Coding and Retrieval: Algorithms and Applications (II)
  - A09: Multimedia Coding
  - A10: Intelligent Watermark Hiding and Digital Image Processing
  - A11: Computer Graphics (II)
  - A12: Advanced Data Hiding and Coding Techniques for Audio Signals
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- B01: Intelligent Watermarking Techniques, Image Authentication and Visual Cryptography (I)
  - B02: Network-aware Multimedia: QoS and Security
  - B03: Intelligent Surveillance and Pattern Recognition
  - B04: Intelligent Information Processing and Multimedia Services for Digital Home
  - B05: Intelligent Watermarking Techniques, Image Authentication and Visual Cryptography (II)
  - B06: Techniques and Algorithms for Multimedia Security (I)
  - B07: Wired and Wireless Multimedia Networking and Applications
  - B08: Digital Forensics and Data Hiding Discovery
  - B09: Soft Computing and Intelligent System
  - B10: Techniques and Algorithms for Multimedia Security (II)
  - B11: Biomedical Engineering
  - B12: Digital Watermarking Techniques (I)
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- C01: Steganography and Information Security
  - C02: Web Intelligence and Computational Intelligence
  - C03: Software and Hardware Designs of Multimedia Networking Embedded Systems
  - C04: Recognizing Humans and Human Behavior in Video
  - C05: Video Surveillance
  - C06: Intelligent Video Processing
  - C07: Novel Computation on Finance and Management
  - C08: Intelligent Data Analysis
  - C09: Intelligent Information Processing in Wireless Sensor Networks
  - C10: Digital Watermarking Techniques (II)
  - C11: Data Hiding Techniques
  - C12: Cross-discipline Techniques

### Poster Sessions

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**A01, IIHMS-2007-IS01**

*Novel Approaches to Multimedia Applications*

Bao Rong Chang, National Taitung University, Taiwan

**A01-01, IIHMS-2007-IS01-001**

*Forecasting Typhoon Moving Path Using BPNN-Weighted Grey-C3LSP Tuned by*

*Quantum-Neuron-Based Adaptive Support Vector Regression with Nested Local Adiabatic Evolution*

Bao Rong Chang and Hsiu Fen Tsai

National Taitung University, Taiwan

**A01-02, IIHMS-2007-IS01-002**

*Using Principal Component Analysis and Radial Basis Function Neural Networks for Image Contents Classification*

Chuan-Yu Chang, Chi-Fang Li, and Hung-Jen Wang

National Yunlin University of Science and Technology, Taiwan

**A01-03, IIHMS-2007-IS01-003**

*Very Low Bit Rate Video Coding using H.264 Codec and Cubic Spline Interpolation*

Tsung-Ching Lin, Chien-Wen Chen, Chien-Chang Lin, and Trieu-Kien Truong

I-Shou University, Taiwan

**A01-04, IIHMS-2007-IS01-004**

*Optimal Deployment for Wireless Sensor Networks Using Lifetime Expectation Estimation*

Chu-Fu Wang, Chun-Chia Lee, and Hui-Sheng Chu

National Pingtung University of Education, Taiwan

**A01-05, IIHMS-2007-IS01-005**

*Enhancement of Hardware-Software Partition for Embedded Multiprocessor FPGA Systems*

Trong-Yen Lee, Yang-Hsin Fan, Yu-Min Cheng, Chia-Chun Tsai, and Rong-Shue Hsiao

National Taipei University of Technology, Taiwan

**A01-06, IIHMS-2007-0573**

*Comparison of Several Classifiers for Emotion Recognition from Noisy Mandarin Speech*

Tsang-Long Pao, Wen-Yuan Liao, Yu-Te Chen, Jun-Heng Yeh, Yun-Maw Cheng, and Charles S Chien

Tatung University, Taiwan

**A01-07, IIHMS-2007-0734**

*Extracting the Ocean Surface Feature of Non-linear Internal Solitary Waves in MODIS Satellite Images*

Chih-Chung Kao, Liang-Hwei Lee, Chih-Chiang Tai, and Yung-Chung Wei

Fortune Institute of Technology, Taiwan

**A02, IIHMSP-2007-IS02**

*Intelligent Systems for Image and Signal Processing*

Weng Kin Lai, Centre for Advanced Informatics, Malaysia

**A02-01, IIHMSP-2007-IS02-001**

*Fuzzy based Classification of EEG Mental Tasks for a Brain Machine Interface*

C.R. Hema, M.P. Paulraj, R. Nagarajan, Sazali Yaacob, and Abd. Hamid Adom

University Malaysia Perlis, Malaysia

**A02-02, IIHMSP-2007-IS02-002**

*Personalized Face Emotion Classification Using Optimized Data of Three Features*

M. Karthigayan, R. Nagarajan, M. Rizon, and Sazali Yaacob

Universiti Malaysia Perlis, Malaysia

**A02-03, IIHMSP-2007-IS02-003**

*Keystroke Patterns Classification using the ARTMAP-FD Neural Network*

Chen Change Loy, Weng Kin Lai, and Chee Peng Lim

Centre for Advanced Informatics, Malaysia

**A02-04, IIHMSP-2007-IS02-004**

*A Mutation-Based Evolving Neural Network Model and Its Application to Condition Monitoring*

Shing Chiang Tan, M.V.C. Rao, and Chee Peng Lim

Multimedia University, Malaysia

**A02-05, IIHMSP-2007-0355**

*A Map Matching Algorithm in GPS-based Car Navigation System*

Yongyi Zhao, Bo Song, and Jin Li

Shenyang Normal University, China

**A02-06, IIHMSP-2007-0536**

*An Edge Enhanced Technique for Digital Halftoning Using Error Diffusion*

Jen-Bang Feng, Iuon-Chang Lin, and Yen-Ping Chu

National Chung Hsing University, Taiwan

**A02-07, IIHMSP-2007-0614**

*A Content-Adaptive Up-Sampling Technique for Image Resolution Enhancement*

Ming-Sui Lee, Mei-Yin Shen, and C.-C. Jay Kuo

National Taiwan University, Taiwan

**A03, IIH MSP-2007-IS03**

*Computation Intelligence for Image Processing and Pattern Recognition*

Yen-Wei Chen, Ritsumeikan University, Japan

**A03-01, IIH MSP-2007-IS03-001**

*A Robust Eye Detection and Tracking Technique using Gabor Filters*

Yen-Wei Chen and Kenji Kubo

Central South University of Forestry and Technology., China

**A03-02, IIH MSP-2007-IS03-002**

*An ICA Based Noise Reduction for PET Reconstructed Images*

Xian-Hua Han, Yen-Wei Chen, Keishi Kitamura, Akihiro Ishikawa, Yoshihiro Inoue, Kouichi Shibata, Yukio Mishina, and Yoshihiro Mukuta

Central South University of Forestry and Technology, China

**A03-03, IIH MSP-2007-IS03-003**

*Brain Matters Emphasis in MRI by Kernel Independent Component Analysis*

Tomoko Tateyama, Zensho Nakao, and Yen-Wei Chen

University of the Ryukyus, Japan

**A03-04, IIH MSP-2007-0321**

*$2D(PC)^2A$  for Face Recognition with One Training Image per Person*

Jun-Bao Li, Shu-Chuan Chu, and Jeng-Shyang Pan

Harbin Institute of Technology, China

**A03-05, IIH MSP-2007-0601**

*Novel and Fast Approach for Iris Location*

Jen-Chun Lee, Ping S. Huang, Chien-Ping Chang, and Te-Ming Tu

National Defense University, Taiwan

**A03-06, IIH MSP-2007-0947**

*Contextual Hidden Markov Tree Model Image Denoising using a New Nonuniform Quincunx Directional Filter Banks*

Yong Tian, Jianing Wang, Jiuwen Zhang, and Yida May

Lanzhou University, China

**A03-07, IIH MSP-2007-1186**

*Performance Evaluation of Fingerprint Orientation Estimation Algorithms*

Yuqin Sun, Shenghong Chen, Zhifang Wang, and Qiong Li

Harbin Institute of Technology, China

**A04, IIHMSP-2007-IS04**

*Recent Advances in Multimedia Coding and Retrieval: Algorithms and Applications (I)*  
Zhe-Ming Lu, Sun Yat-Sen University, China

**A04-01, IIHMSP-2007-IS04-001**

*The Research of Video Matching Algorithm Based on Spatio-Temporal Feature*  
Ke-Bin Jia, Zhi-Pin Deng, and Xin-Yue Zhuang  
Beijing University of Technology, China

**A04-02, IIHMSP-2007-IS04-002**

*An Effective Image Retrieval Method Based on Color and Texture Combined Features*  
Pengyu Liu, Kebin Jia, and Zhuozheng Wang  
Beijing University of Technology, China

**A04-03, IIHMSP-2007-IS04-003**

*Image Retrieval with Long-Term Memory Learning and Short-Time Relevance Feedback*  
Zhen Sun, Zhe-Ming Lu, and Hai-Jun Jin  
Harbin Institute of Technology, China

**A04-04, IIHMSP-2007-IS04-004**

*Dynamic Extended Codebook Based Vector Quantization Scheme for Mesh Geometry Compression*  
Zhen Li, Zhe-Ming Lu, and Lei Sun  
Harbin Institute of Technology, China

**A04-05, IIHMSP-2007-0891**

*Effective Video Annotation by Mining Visual Features and Speech Features*  
Vincent. S. Tseng, Ja-Hwung Su, and Chih-Jen Chen  
National Cheng Kung University, Taiwan

**A04-06, IIHMSP-2007-0917**

*A Hierarchical Grid-Based Indexing Method for Content-Based Image Retrieval*  
Te-Wei Chiang, Tienwei Tsai, and Mann-Jung Hsiao  
Chihlee Institute of Technology, Taiwan

**A04-07, IIHMSP-2007-0955**

*A Programming Model for Distributed Content-based Image Retrieval*  
Feng-Cheng Chang and Hsiang-Cheh Huang  
National Chiao Tung University, Taiwan

**A05, IIHMSP-2007-IS05**

*Networking and Information Security*

Hornng-Chang Yang, National Taitung University, Taiwan

**A05-01, IIHMSP-2007-IS05-001**

*A Scheme for Protecting Mobile Agents Based on Combining Obfuscated Data and Time Checking Technology*

Jiehong Wu, Guiran Chang, and Jia Li

Northeastern University, China

**A05-02, IIHMSP-2007-IS05-002**

*Video Authentication and Tamper Detection Based on Cloud Model*

Chang-yin Liang, Ang Li, and Xia-mu Niu

Shenzhen Polytechnic, China

**A05-03, IIHMSP-2007-IS05-003**

*The Key Management of the Encrypted Database Based on XML*

Yong Zhang, Qin-tao Song, and Xia-mu Niu

Harbin Institute of Technology, China

**A05-04, IIHMSP-2007-IS05-005**

*Detecting Iris Lacunae Based on Gaussian Filter*

Bo Shen, Yong Xu, Guangming Lu, and David Zhang

Harbin Institute of Technology, China

**A05-05, IIHMSP-2007-IS05-006**

*Applying Feature Extraction of Speech Recognition on VoIP Auditing*

Xuan Wang, Jiancheng Lin, and Yong Sun

Harbin Institute of Technology, China

**A05-06, IIHMSP-2007-IS05-007**

*A Digital Watermarking Scheme Based on DCT and SVD*

Zhe-Ming Lu, Hong-Yi Zheng, and Ji-Wu Huang

Sun Yat-Sen University, China

**A05-07, IIHMSP-2007-0076**

*Improving the Security of the Chien-Jan Protocol for Large Mobile Networks*

Chao-Wen Chan and Rong-Yuan Wang

National Taichung Institute of Technology, Taiwan

**A06, IIHMSP-2007-IS06**

*Digital Watermarking and Multimedia Security*

Anthony TS Ho, University of Surrey, UK

**A06-01, IIHMSP-2007-IS06-001**

*A Novel Lossy Image-Hiding Scheme Based on Block Difference*

YK Sek, LM Cheng, LL Cheng, and Chi Kwong Chan

City University of Hong Kong, Hong Kong SAR

**A06-02, IIHMSP-2007-IS06-002**

*Hardware Realization of Steganographic Techniques*

H.Y. Leung, L.M. Cheng, L.L. Cheng, and Chi-Kwong Chan

City University of Hong Kong, Hong Kong SAR

**A06-03, IIHMSP-2007-IS06-003**

*A Novel Semi-Fragile Image Watermarking, Authentication and Self-restoration Technique Using the Slant Transform*

X. Zhao, A.T.S. Ho, H. Treharne, V. Pankajakshan, C. Culnane, and W. Jiang

University of Surrey, UK

**A06-04, IIHMSP-2007-IS06-004**

*Improving Video Steganalysis Using Temporal Correlation*

Vinod Pankajakshan and A. T. S. Ho

University of Surrey, UK

**A06-05, IIHMSP-2007-0102**

*Halftone Image Watermarking Based on the Binary Pseudo-Wavelet Transform*

Hao Luo, Zhenfei Zhao, Jianming Huang, and Zhe-Ming Lu

Harbin Institute of Technology, China

**A06-06, IIHMSP-2007-0105**

*Hiding Multiple Watermarks in Transparencies of Visual Cryptography*

Hao Luo, Jeng-Shyang Pan, and Zhe-Ming Lu

Harbin Institute of Technology, China

**A06-07, IIHMSP-2007-0140**

*Data Hiding for Binary Images Using Weight Mechanism*

Hsien-Wen Tseng, Feng-Rong Wu, and Chi-Pin Hsieh

Chaoyang University of Technology, Taiwan



**A07, IIHMSp-2007-IS07**

*Computer Graphics (I)*

Tong-Yee Lee, National Cheng-Kung University, Taiwan

**A07-01, IIHMSp-2007-IS07-001**

*Effective Color Ink Diffusion Synthesis*

Ren-Jie Wang and Chung-Ming Wang

National Chung Hsing University, Taiwan

**A07-02, IIHMSp-2007-IS07-002**

*Neural ISOMAP*

Shih-Pin Chao, Chen-Lan Yen, and Chien-Chun Kuo

Industrial Technology Research Institute, Taiwan

**A07-03, IIHMSp-2007-IS07-003**

*Real-time Rendering of Splashing Stream Water*

Jun-Wei Chang, Su Ian Eugene Lei, Chun-Fa Chang, and Yu-Jung Cheng

National Tsing Hua University, Taiwan

**A07-04, IIHMSp-2007-IS07-004**

*Facial Expressions for 3D Game Applications*

Tainchi Lu, Daosheng Mu, and Minchih Tsai

National Chiayi University, Taiwan

**A07-05, IIHMSp-2007-0649**

*Asymmetric Clustering based on Self-Similarity*

Mika Sato-Ilic and Lakhmi C. Jain

University of Tsukuba, Japan

**A07-06, IIHMSp-2007-1200**

*Reversible Data Hiding Base on Histogram Shift for 3D vertex*

Chang-Yun Jhou, Jeng-Shyang Pan, and Ding Chou

National Kaohsiung University of Applied Sciences, Taiwan

**A08, IIHMSP-2007-IS04**

*Recent Advances in Multimedia Coding and Retrieval: Algorithms and Applications (II)*  
Ce Zhu, Nanyang Technological University, Singapore

**A08-01, IIHMSP-2007-IS04-005**

*A Fast Intra-frame Prediction Algorithm Based on the Characteristic of Macro-block and 2D-histogram for H.264/AVC Standard*  
Xu He, Pengyu Liu, Kebin Jia, and Yanhua Zhang  
Beijing University of Technology, China

**A08-02, IIHMSP-2007-IS04-006**

*A Method of Bucket Index over Encrypted Character Data in Database*  
Yong Zhang, Wei-xin Li, and Xia-mu Niu  
Harbin Institute of Technology, China

**A08-03, IIHMSP-2007-IS04-007**

*Real-time Path Planning of Large-scale Virtual Crowd*  
Yongqing Ye, and Qingge Ji  
Sun Yat-Sen University, Guangzhou, China

**A08-04, IIHMSP-2007-IS04-008**

*Overlapped Block Motion Compensation Using Modified Sigmoid Window*  
Danny Fernandes and Ce Zhu  
Nanyang Technological University, Singapore

**A08-05, IIHMSP-2007-0974**

*Directional Texture Feature Extraction using Context Labels of Significance Coding for JPEG2000 Compressed Domain Image Retrieval*  
Navin Angkura, Supavadee Aramvith, and Supakorn Siddhichai  
Chulalongkorn University, Thailand

**A08-06, IIHMSP-2007-1145**

*An Efficient Image Retrieval Approach base on Color Clustering*  
Bo Di  
University of Electronic Science and Technology of China, China

**A08-07, IIHMSP-2007-1191**

*Content Integrity Verification for G.729 Coded Speech*  
Yuhua Jiao, Yubo Tian, Qiong Li, and Xiamu Niu  
Harbin Institute of Technology, China

**A09, IIMSP-2007-IS08**

*Multimedia Coding*

Yao Zhao, Beijing Jiaotong University, China

**A09-01, IIMSP-2007-IS08-001**

*Three-Channel Multiple Description Image Coding Based on Special Lattice Vector Quantization*

Chunyu Lin, Yao Zhao, and Huihui Bai

**A09-02, IIMSP-2007-IS08-002**

*Three-Description Image Coding Using Optimal Dead-Zone Lattice Vector Quantization*

Yuanyuan Xu and Yao Zhao

Beijing Jiaotong University, China

**A09-03, IIMSP-2007-0399**

*Design of Multiuser Collusion-free Hiding Codes with Delayed Embedding*

Byung-Ho Cha and C.-C. Jay Kuo

University of Southern California, USA

**A09-04, IIMSP-2007-0653**

*GOP-based Rate Control for H.264/SVC with Hierarchical B-pictures*

Yongjin Cho, C.-C. Jay Kuo, and Do-Kyoung Kwon

University of Southern California, USA

**A09-05, IIMSP-2007-0798**

*A Method for Decoding the (24, 15, 5) Cyclic Code*

H. P. Lee, H. Y. Chen, and H. C. Chang

Fortune Institute of Technology, Taiwan

**A09-06, IIMSP-2007-0855**

*A Covert Communication Scheme for the DCT Based Image Multiple Description Coding System*

Chuang Lin, Jeng-Shyang Pan, Tsong-Yi Chen, and Kuang-Chih Huang

Harbin Institute of Technology, China

**A09-07, IIMSP-2007-0903**

*Hierarchical Key Management of Scalable Video Coding*

Tien-Yan Ma, Ting-Wei Hou, and Shau-Yin Tseng

National Chen Kung University, Taiwan

**A10, IIHMSP-2007-IS09**

*Intelligent Watermark Hiding and Digital Image Processing*

Chin-Chen Chang, alan3c@gmail.com, Feng Chia University, Taiwan  
Chia-Chen Lin, Providence University, Taiwan

**A10-01, IIHMSP-2007-IS09-001**

*A Novel Subliminal Channel Found in Visual Cryptography and Its Application to Image Hiding*

Tzung-Her Chen, Chang-Sian Wu, and Wei-Bin Lee  
National Chiayi University, Taiwan

**A10-02, IIHMSP-2007-IS09-004**

*Reversible Data Embedding Using Reduced Difference Expansion*

Chiang-Lung Liu, Der-Chyuan Lou, and Chien-Chung Lee  
National Defense University, Taiwan

**A10-03, IIHMSP-2007-IS09-005**

*Length Estimation for Embedded Message Using Support Vector Machine*

Der-Chyuan Lou, Chiang-Lung Liu, Chih-Lin Lin, and Shin-Her Wang  
National Defense University, Taiwan

**A10-04, IIHMSP-2007-IS09-006**

*A Novel Algorithm for Robust Audio Watermarking Based on Quantification DCT Domain*

Zhiping Zhou and Lihua Zhou  
Southern Yangtze University, China

**A10-05, IIHMSP-2007-IS09-007**

*Analyses of Pixel-Value-Differencing Schemes with LSB Replacement in Steganography*

Cheng-Hsing Yang, Shih-Jeng Wang, and Chi-Yao Weng  
National Pingtung University of Education, Taiwan

**A10-06, IIHMSP-2007-IS09-009**

*Dynamically Constructing Mixed Pyramid for Fast VQ Encoding*

Hong-Wei Sun, Kwok-Yan Lam, Jia-Guang Sun, and Siu-Leung Chung  
Tsinghua University, China

**A10-07, IIHMSP-2007-0340**

*Generalized Discrete Fractional Hadamard Transformation and its Application on the Image Encryption*

Li-Jun Yan and Jeng-Shyang Pan  
Harbin Institute of Technology, China

**A11, IIMSP-2007-IS07**

*Computer Graphics (II)*

Chun-Fa Chang, National Taiwan Normal University, Taiwan

**A11-01, IIMSP-2007-IS07-005**

*IMHAP – An Experimental Platform for Humanoid Procedural Animation*

Chang-Hung Liang, Pai-Cheng Tao, and Tsai-Yen Li

National Chengchi University, Taiwan

**A11-02, IIMSP-2007-IS07-006**

*Animation Generation and Retargeting based on Physics Characteristics*

Yao-Yang Tsai, Hung-Kuo Chu, Kuangyou B. Cheng, Tong-Yee Lee, and Chen-Lan Yen

National Cheng Kung University, Taiwan

**A11-03, IIMSP-2007-IS07-007**

*WYSIWYG: Mesh Decomposition for Static Models*

Yu-Shuen Wang and Tong-Yee Lee

National Cheng Kung University, Taiwan

**A11-04, IIMSP-2007-IS07-009**

*Multi-Resolution Unsteady Flow Visualization*

Shyh-Kuang Ueng and Wei-Yang Sun

National Taiwan Ocean University, Taiwan

**A11-05, IIMSP-2007-0944**

*The Architecture of Fast H.264 CAVLC Decoder and its FPGA Implementation*

Tony Gladvin George and Dr.N.Malmurugan

Vinayaka Mission's University, India

**A11-06, IIMSP-2007-1013**

*Building Corner Feature Extraction Based on Fusion Technique with Airborne LiDAR Data and Aerial Imagery*

Liang-Hwei Lee, Shiahn-Wern Shyue, and Ming-Jer Huang

Naval Academy, Taiwan

**A12, IIHMSp-2007-IS19**

*Advanced Data Hiding and Coding Techniques for Audio Signals*

Kotaro Sonoda, National Institute of Information and Communications Technology, Japan  
Akira Nishimura, Tokyo University of Information Sciences, Japan

**A12-01, IIHMSp-2007-IS19-001**

*Potential of Value-Added Speech Communications by Using Steganography*

Naofumi Aoki

Hokkaido University, Japan

**A12-02, IIHMSp-2007-IS19-002**

*Maximum-Likelihood Estimation of Recording Position Based on Audio Watermarking*

Yuta Nakashima, Ryuki Tachibana, and Noboru Babaguchi

Osaka University, Japan

**A12-03, IIHMSp-2007-IS19-003**

*Increasing Correlation using a Few Bits for Multiple Description Coding*

Akinori Ito and Shozo Makino

Tohoku University, Japan

**A12-04, IIHMSp-2007-IS19-005**

*Psychoacoustically-Adapted Patchwork Algorithm for Watermarking*

Hyunho Kang, Koutarou Yamaguchi, Brian Kurkoski, and Kazuhiko Yamaguchi

University of Electro-Communications, Japan

**A12-05, IIHMSp-2007-IS19-006**

*A Portable Acoustic Caption Decoder Using IH Techniques for Enhancing Lives of the People Who Are Deaf or Hard-of-Hearing - System Configuration and Robustness for Airborne Sound -*

Tetsuya Munekata, Toshimitsu Yamaguchi, Hiroki Handa, Ryouichi Nishimura, and Yōiti Suzuki

The National Institute of Special Needs Education (NISE), Japan

**A12-06, IIHMSp-2007-IS19-007**

*Presentation of Information Synchronized with the Audio Signal Reproduced by Loudspeakers using an AM-based Watermark*

Akira Nishimura

Tokyo University of Information Sciences, Japan

**A12-07, IIHMSp-2007-IS19-008**

*Information Hiding for Public Address Audio Signal using FH/FSK Spread-spectrum Scheme*

Kotaro Sonoda, Katsunari Yoshioka, and Osamu Takizawa

National Institute of Information and Communications Technology, Japan

**B01, IIHMSP-2007-IS10**

*Intelligent Watermarking Techniques, Image Authentication and Visual Cryptography (I)*  
Chia-Chen Lin, Providence University, Taiwan

**B01-01, IIHMSP-2007-IS10-001**

*Improvements of EMD Embedding for Large Payloads*  
Chin-Chen Chang, Wei-Liang Tai, and Kuo-Nan Chen  
National Chung Cheng University, Taiwan

**B01-02, IIHMSP-2007-IS10-003**

*Reversible Data Embedding for Vector Quantization Indices*  
Chin-Chen Chang and The Duc Kieu  
Feng Chia University, Taiwan

**B01-03, IIHMSP-2007-IS10-004**

*Binary Document Images Authentication by Thinning Digital Patterns*  
Chu-Hsing Lin, Wen-Kui Chang, Yu-Ying Lin, and Lun-Yuen Cheng  
Tunghai University, Taiwan

**B01-04, IIHMSP-2007-IS10-005**

*Using Dynamic Programming Strategy to Find an Optimal Solution to Exploiting Modification Direction Embedding Method*  
Chin-Chen Chang, Chin-Feng Lee, and Lin-Yi Chuang  
Feng Chia University, Taiwan

**B01-05, IIHMSP-2007-IS10-006**

*Fragile Database Watermarking for Malicious Tamper Detection Using Support Vector Regression*  
Meng-Hsiun Tsai, Fang-Yu Hsu, Jun-Dong Chang, and Hsien-Chu Wu  
National Chung Hsing University, Taiwan

**B01-06, IIHMSP-2007-0071**

*The Improvement of Lee-Chiu's Remote User Authentication Scheme*  
Chao-Wen Chan and Chung-Chih Lin  
National Taichung Institute of Technology, Taiwan

**B01-07, IIHMSP-2007-0278**

*Visual Cryptography in reversible style*  
Wen-Pinn Fang  
Yuanpei University, Taiwan

**B02, IIHMSP-2007-IS11**

*Network-aware Multimedia: QoS and Security*

Ju Liu, Shandong University, China

**B02-01, IIHMSP-2007-IS11-001**

*A Fast Multiple Reference Frame Selection Algorithm Based on H.264/AVC*

Hong-Jun Wang, Li-li Wang, and Hua Li

Shandong University, Jinan China

**B02-02, IIHMSP-2007-IS11-002**

*H.264/AVC Video Encoder Algorithm Optimization Based on TI TMS320DM642*

Hong-Jun Wang, Yan-yan Hou, and Hua Li

Shandong University, China

**B02-03, IIHMSP-2007-IS11-003**

*Text Independent Speaker Verification Based on Mixing ICA Overcomplete Basis Functions*

Shuzhong Bai, Ju Liu, Guoxia Sun, and Wei Zhang

Shandong University, China

**B02-04, IIHMSP-2007-IS11-004**

*Influence of Joint Action of Fluid Shear Stress and Signal Transduction Ligand Inhibitor on Osteoclasts' Differentiation and Maturation*

Huiqiang Sun, Guoxia Sun, Xing Liang, and Ju Liu

Shandong University, Taiwan

**B02-05, IIHMSP-2007-0270**

*Fuzzy Joint Encoding and Statistical Multiplexing of Multiple Video Sources with Independent Quality of Services for Streaming over DVB-H*

Mehdi Rezaei, Imed Bouazizi, and Moncef Gabbouj

Tampere University of Technology, Finland

**B02-06, IIHMSP-2007-0345**

*A Method for Making Three-Party Password-Based Key Exchange Resilient to Server Compromise*

Hongfeng Zhu, Tianhua Liu, Jie Liu, and Guiran1 Chang

Northeastern University, China

**B02-07, IIHMSP-2007-0507**

*Policy based Controlled Migration of Mobile Agents to Untrusted Hosts*

V. Valli Kumari, Y. Aditya Kumar, KVSUN Raju, KV Ramana, and RVVSV Prasad

Andhra University, India



**B03, IIMSP-2007-IS12**

*Intelligent Surveillance and Pattern Recognition*

Tai-Ning Yang, Chinese Culture University, Taiwan

Ling-Ping Chou, Chinese Culture University, Taiwan

**B03-01, IIMSP-2007-IS12-001**

*A Practical Color Transfer Algorithm for Image Sequences*

Yao-Hsien Huang and Chung-Hsin Liu

ChungHwa Telecommunication Laboratories, Taiwan

**B03-02, IIMSP-2007-IS12-002**

*Intelligent Surveillance by Using 2D Heterogeneous Multimodal Sensations and Information Transcoding*

I-Horng Jeng, Tai-Ning Yang, Chih-Jen Lee, Shih-Yun Lin, and Tsung-Hsien Wu

Chinese Culture University, Taiwan

**B03-03, IIMSP-2007-IS12-004**

*A New Application Framework for Intelligent Surveillance Sensor Networks*

Li-Ping Chou, Jenn-Dong Sun, and Mei-Ling Chen

Chinese Culture University, Taiwan

**B03-04, IIMSP-2007-0417**

*Motion Vector Re-estimation for Trans-coding Using Kalman Filter*

Chih-Shan Liu, Jen-Chun Lin, Nai-Chung Yang, and Chung-Ming Kuo

I-Shou University, Taiwan

**B03-05, IIMSP-2007-0435**

*An Algorithm for Coplanar Camera Calibration*

Kaset Sirisantisamrid, Kitti Tirasesth, and Takenobu Matsuura

King Mongkut's Institute of Technology, Thailand

**B03-06, IIMSP-2007-0751**

*Fast Motion Search using early Zero-block Detection*

Chiung-Chin Lin, Yu-Ming Lee, and Yinyi Lin

National Central University, Taiwan

**B03-07, IIMSP-2007-1160**

*Eyes Tracking in a Video Sequence based-on Haar-like Features and Skin Color*

Qi Han, Qiong Li, Xiongdong Huang, Tong Zhou, and Xiamu Niu

Harbin Institute of Technology, China

**B04, IIHMSP-2007-IS13**

*Intelligent Information Processing and Multimedia Services for Digital Home*  
Mong-Fong Horng, Shu-Te University, Taiwan  
Yuh-Ming Cheng, Shu-Te University, Taiwan

**B04-01, IIHMSP-2007-IS13-001**

*Usability Testing of AMC Hospital's Website for Home Users: Case Study for On-Site Registration Design*  
Hao-Yun Kao  
National Sun Yat-Sen University, Taiwan

**B04-02, IIHMSP-2007-IS13-002**

*User's Authentication in Media Services by using One-Time Password Authentication Scheme*  
Neng-Wen Wang and Yueh-Min Huang  
National Cheng Kung University, Taiwan

**B04-03, IIHMSP-2007-IS13-003**

*Energy-efficient Geographic Relay for Ad-Hoc Wireless Networks*  
Jeng-Wei Lee, Yi-Tsung Chen, and Yau-Hwang Kuo  
National Cheng Kung University, Taiwan

**B04-04, IIHMSP-2007-IS13-004**

*Mining Generalized Association Rules for Service Recommendations for Digital Home Applications*  
Sue-Chen Hsueh, Ming-Yen Lin, and Kun-Lin Lu  
Chaoyang University of Technology, Taiwan

**B04-05, IIHMSP-2007-IS13-005**

*Applications of a Pedagogical Agent Mechanism in a Web-based Clinical Simulation System for Medical Education*  
Yuh-Ming Cheng, Lih-Shyang Chen, Sheng-Feng Weng, Yong-Guo Chen, and Chyi-Her Lin  
Shu Te University, Taiwan

**B04-06, IIHMSP-2007-0113**

*Smart Embed Tension Tensor Based on Internet*  
Peng Wu, Aixia Wang, and Jingjiao Li  
ShenYang Normal University, China

**B04-07, IIHMSP-2007-0900**

*The Wireless Sensor Network for Home-Care System Using ZigBee*  
Mao-Cheng Huang, Jyun-Ciang Huang, Jing-Cyun You, and Gwo-Jia Jong  
National Kaohsiung University of Applied Sciences, Taiwan

**B05, IHHMSP-2007-IS10**

*Intelligent Watermarking Techniques, Image Authentication and Visual Cryptography (II)*

Chia-Chen Lin, Providence University, Taiwan

**B05-01, IHHMSP-2007-IS10-007**

*A Steganographic Method with High Embedding Capacity by Improving Exploiting Modification Direction*

Chin-Feng Lee, Yi-Ren Wang, and Chin-Chen Chang

Chaoyang University of Technology, Taiwan

**B05-02, IHHMSP-2007-IS10-008**

*A Flexible Fragile Watermarking Scheme for Binary Images with Reversibility*

Chung-Chuan Wang, Chin-Chen Chang, Jinn-Ke Jan, and Iuon-Chang Lin

National Chung Hsing University, Taiwan

**B05-03, IHHMSP-2007-IS10-009**

*High Payload Data Embedding with Hybrid Strategy*

Chin-Chen Chang and Yung-Chen Chou

Feng Chia University, Taiwan

**B05-04, IHHMSP-2007-IS10-010**

*A Best-pair-first Capacity-distortion Control for Data Hiding on VQ Compression Domain*

Chi-Nan Lin and Chin-Chen Chang

National Chung Cheng University., Taiwan

**B05-05, IHHMSP-2007-IS10-011**

*Secret Image Sharing Using Quadratic Residues*

Chang-Chu Chen and Chin-Chen Chang

National Chung Cheng University, Taiwan

**B05-06, IHHMSP-2007-0609**

*Image Steganographic Scheme Using Tri-way Pixel-Value Differencing and Adaptive Rules*

Ko-Chin Chang, Ping S. Huang, T-M Tu, and Chien-Ping Chang

National Defense University, Taiwan

**B06, IIHMSP-2007-IS14**

*Techniques and Algorithms for Multimedia Security (I)*

Isao Echizen, National Institute of Informatics, Japan

**B06-01, IIHMSP-2007-IS14-001**

*Proposal of Digital Forensic System Using Security Device and Hysteresis Signature*

Yuki Ashino and Ryoichi Sasaki

Tokyo Denki University, Japan

**B06-02, IIHMSP-2007-IS14-002**

*Development and Application of Digital Forensic Logging System for Data from a Keyboard and Camera*

Mariko Irisawa, Yuki Ashino, Keisuke Fujita, and Ryoichi Sasaki

Tokyo Denki University, Japan

**B06-03, IIHMSP-2007-IS14-003**

*Secure Generation of Digital Signature on Compromised Computer*

Hideaki Tanaka, Shoichi Sasaki, Isao Echizen, and Hiroshi Yoshiura

The University of Electro-Communications, Japan

**B06-04, IIHMSP-2007-IS14-004**

*A New Scheme for Optimum Decoding of Additive Watermarks Embedded in Spatial Domain*

Maki Yoshida, Itaru Kitamura, and Toru Fujiwara

Osaka University, Japan

**B06-05, IIHMSP-2007-0452**

*A Switchable DRM Structure for Embedded Device*

Feng-Cheng Chang, Chiao-Lin Wu, and Hsueh-Ming Hang

National Chiao Tung University, Taiwan

**B06-06, IIHMSP-2007-0464**

*An H.264 Video Encryption Algorithm Based On Entropy Coding*

Cai Mian, Jia Jia, and Yan Lei

Beijing University of Technology, China

**B06-07, IIHMSP-2007-0712**

*Non-Interactive t-out-of-n Oblivious Transfer based on the RSA Cryptosystem*

Ya-Fen Chang

National Taichung Institute of Technology, Taiwan

**B07, IIHMS-2007-IS15**

*Wired and Wireless Multimedia Networking and Applications*

Takuo Nakashima, Kyushu Tokai University, Japan

**B07-01, IIHMS-2007-IS15-001**

*Queueing Analysis for Self-similar Traffic by Simulator*

Takuo Nakashima, Akari Ono, and Toshinori Sueyoshi

Kyushu Tokai University, Japan

**B07-02, IIHMS-2007-IS15-002**

*Extraction for Characteristics of Anomaly Accessed IP Packets based on Statistical Analysis*

Shunsuke Oshima, Takuo Nakashima, and Yusuke Nishikido

Yatsushiro National College of Technology, Japan

**B07-03, IIHMS-2007-IS15-003**

*Efficient Spline Interpolation Curve Modeling*

Ningping Sun, Toru Ayabe, and Takahiro Nishizaki

Kumamoto National College of Technology, Japan

**B07-04, IIHMS-2007-IS15-004**

*An Approach to Camera Work Based Animation*

Ningping Sun, Daisuke Sato, and Ryohei Takaki

Kumamoto National College of Technology, Japan

**B07-05, IIHMS-2007-IS15-005**

*A Study of using L1-norm with Image Watermarking on SVD Domain*

Amnach Khawne, Orachat Chitsobhuk, and Toshiyuki Nakamiya

King Mongkut's Institute of Technology, Thailand

**B07-06, IIHMS-2007-0053**

*A Novel Multimedia Network backbone Architecture base on Proportional Delay Differentiation*

Jih-Hsin Ho, Wen-Shyang Hwang, and Wen-Ping Chen

Diwan University, Taiwan

**B08, IIHMSP-2007-IS16**

*Digital Forensics and Data Hiding Discovery*  
Ing. Antonio Savoldi, University of Brescia, Italy  
Paolo Gubian, University of Brescia, Italy

**B08-01, IIHMSP-2007-IS16-001**

*Blind Multi-Class Steganalysis System Using Wavelet Statistics*  
Antonio Savoldi and Paolo Gubian  
University of Brescia, Italy

**B08-02, IIHMSP-2007-IS16-002**

*Password Recovery Using an Evidence Collection Tool and Countermeasures*  
Seokhee Lee, Antonio Savoldi, Sangjin Lee, and Jongin Lim  
Korea University, Korea

**B08-03, IIHMSP-2007-IS16-003**

*An Effective and Efficient Testing Methodology for Correctness Testing for File Recovery Tools*  
Lei Pan and Lynn M. Batten  
Deakin University, Australia

**B08-04, IIHMSP-2007-IS16-004**

*How to Balance Privilege and Digital Forensics Investigation*  
Ricci S.C. Jeong  
Principal Consultant, Hong Kong

**B08-05, IIHMSP-2007-0015**

*Crytanalysis and Improvement on Chang et al.'s Signature Scheme*  
Qing-Long Wang, Zhen Han, and Xiu-Hua Geng  
Beijing Jiaotong University, China

**B08-06, IIHMSP-2007-0206**

*Color Image Steganography based on Module Substitutions*  
Ching-Yu Yang  
National Penghu University Penghu, Taiwan

**B08-07, IIHMSP-2007-0469**

*A Multiple Grade Blind Proxy Signature Scheme*  
Mian Cai, Li Kang, and Jia Jia  
Beijing University of Technology, China

**B09, IIHMSp-2007-IS17**

*Soft Computing and Intelligent System*

Ramachandran Nagarajan, Universiti Malaysia Perlis, Malaysia

**B09-01, IIHMSp-2007-IS17-005**

*Research of K-means Clustering Method Based on Parallel Genetic Algorithm*

Wenhua Dai, Cuizhen Jiao, and Tingting He

Xianning College, China

**B09-02, IIHMSp-2007-0091**

*Research and Design of Software Bus based Generic Software Agent Architecture*

Chuan-Sheng Zhou and Jie Liu

Shenyang Normal University, China

**B09-03, IIHMSp-2007-0590**

*A Fuzzy Basis on Knowledge Structure Analysis for Cognition Diagnosis and Application on Geometry Concepts for Pupils*

Jeng-Ming Yih and Yuan-Horng Lin

National Taichung University, Taiwan

**B09-04, IIHMSp-2007-0594**

*An Integration of Fuzzy theory and ISM for Concept Structure Analysis with Application of Learning MATLAB*

Jeng-Ming Yih and Yuan-Horng Lin

National Taichung University, Taiwan

**B09-05, IIHMSp-2007-0679**

*Particle Swarm Optimization for Image Noise Cancellation*

Te-Jen Su, Hsin-Chih Wang, and Jia-Wei Liu

National Kaohsiung University of Applied Sciences, Taiwan

**B09-06, IIHMSp-2007-0923**

*The Enhanced Fuzzy Bit generator (EFBG): A Cryptographically Secure Pseudorandom Bit Generator*

Said E. El-Khamy and Adel Hamdi Ali

Alexandria University, Egypt

**B09-07, IIHMSp-2007-1262**

*A Fast Training Algorithm for Least Squares SVM*

Shouda Jiang, Lianlei Lin, and Chao Sun

Harbin Institute of Technology, China

**B10, IIHMSP-2007-IS14**

*Techniques and Algorithms for Multimedia Security (II)*

Hideki Noda, Kyushu Institute of Technology, Japan

**B10-01, IIHMSP-2007-IS14-005**

*HVS-Based Robust Video Watermarking with Dual-plane Correlation*

Isao Echizen, Yusuke Atomori, Shinta Nakayama, and Hiroshi Yoshiura

National Institute of Informatics, Japan

**B10-02, IIHMSP-2007-IS14-006**

*Use of Gap-Filling Operation to Enhance Image Quality of Binary Image Watermarking*

Ryu Ebisawa, Yasuhiro Fujii, Takaaki Yamada, Satoru Tezuka, and Isao Echizen

Hitachi, Ltd., Japan,

**B10-03, IIHMSP-2007-IS14-007**

*A Study on Reversible Information Hiding using Complexity Measure for Binary Images*

Sho Tanaka, Michiharu Niimi, and Hideki Noda

Kyushu Institute of Technology, Japan

**B10-04, IIHMSP-2007-IS14-008**

*Host-Cooperative Metadata Embedding Framework*

Akiomi Kunisa

**B10-05, IIHMSP-2007-0159**

*A New Design of Efficient Key Pre-distribution Scheme for Secure Wireless Sensor Networks*

Hui-Feng Huang

National Taichung Institute of Technology, Taiwan

**B10-06, IIHMSP-2007-0264**

*A Chaos Based Unequal Encryption Mechanism in Mobile Medicine System*

Chin-Feng Lin, Cheng-Hsing Chung, Zhi-Lu Chen, Chang-Jin Song, and Zhi-Xiang Wang

National Taiwan Ocean University, Taiwan

**B10-07, IIHMSP-2007-0519**

*A Robust Audio Fingerprinting Scheme for MP3 Copyright*

Che-Jen Hsieh, Jung-Shian Li, and Cheng-Fu Hung

Far East University, Taiwan



**B11, IIHMSp-2007-IS18**

*Biomedical Engineering*

Sheikh Hussain Shaikh Salleh, Universiti Teknologi Malaysia, Malaysia  
Daniel J Strauss, Saarland University Hospital, Germany

**B11-01, IIHMSp-2007-IS18-001**

*Signal Processing Application for Telemedicine*

Sh-Hussain Salleh, I. Kamarulafizam, A. I. Chowdhury, and M.Z. Zamri  
Universiti Teknologi Malaysia, Malaysia

**B11-02, IIHMSp-2007-IS18-003**

*Adaptive Frame Decomposition in Slow Wave Cortical Responses to Transcranial Magnetic Stimulation*

Arief R. Harris and Daniel J. Strauss  
Saarland University Hospital, Germany

**B11-03, IIHMSp-2007-IS18-004**

*Colour Contrast Enhancement Based on Bright and Dark Stretching for Ziehl-Neelsen Slide Images*

Zaleha Salleh, M.Y. Mashor, N.R. Mat Noor, Shazmin Aniza, N. Abdul Rahim, A.S.W. Wahab, S.S. Md Noor, F. Mohamad Idris, and H. Hasan  
Universiti Malaysia Perlis, Malaysia

**B11-04, IIHMSp-2007-IS18-005**

*Colour Contrast Enhancement on Preselected Cervical Cell for ThinPrep® Images*

N. Mustafa, N. A. Mat Isa, M. Y. Mashor, and N. H. Othman  
Universiti Malaysia Perlis, Malaysia

**B11-05, IIHMSp-2007-IS18-006**

*The Johor Screening Scheme: Is an Area-Wide Newborn Hearing Screening Possible in Malaysia?*

Farah I. Corona-Strauss, Wolfgang Delb, Marc Bloching, Sheikh Hussain, and Daniel J. Strauss  
UdS/HTW, Germany

**B11-06, IIHMSp-2007-IS18-007**

*Optimized Computational Instrumentation in Biomedicine: A Review*

D. Benyoucef and Daniel J. Strauss  
Furtwangen University of Applied Sciences, Germany

**B11-07, IIHMSp-2007-0085**

*A Ka Band WCDMA-based LEO Multi-Satellites Mobile Medicine System*

Chin-Feng Lin and Rung-Hua Shiu  
National Taiwan Ocean University, Taiwan

**B12**

*Digital Watermarking Techniques (I)*

Hsiang-Cheh Huang, National University of Kaohsiung, Taiwan

**B12-01, IIHMSp-2007-0191**

*Reversible Fragile Watermarking Based on Pyramidal Structure and Gradient Predicting Image*

F. H. Yeh, G. C. Lee, and C. C. Chiang

National Taiwan Normal University, Taiwan

**B12-02, IIHMSp-2007-0374**

*Adaptive and Robust Audio watermarking in Wavelet Domain*

Mohammad pooyan and Ahmad Delforouzi

University of Shahed, Iran

**B12-03, IIHMSp-2007-0492**

*Combining Multilevel Manipulation Estimation with Content-based Authentication Watermarking*

Michael Gulbis, Erika Müller, and Martin Steinebach

University of Rostock, Germany

**B12-04, IIHMSp-2007-0578**

*Blind Color Watermarking Approach for Secret Text Hiding*

Chih-Chien Wu, Te-Ming Tu, Jyh-Chian Chang, Chien-Ping Chang, and Ping S. Huang

National Defense University, Taiwan

**B12-05, IIHMSp-2007-0792**

*Optimized Copyright Protection Systems with Genetic-Based Robust Watermarking*

Hsiang-Cheh Huang, Jeng-Shyang Pan, and Chi-Ming Chu

National University of Kaohsiung, Taiwan

**B12-06, IIHMSp-2007-0804**

*A New Attributes-Priority Matching Watermarking Algorithm Satisfying Topological Conformance for Vector Map*

Dong Zhang, Depei Qian, and Pen Han

Xi'an Jiaotong University, China

**B12-07, IIHMSp-2007-0828**

*Blind Image Watermarking Scheme in DWT-SVD Domain*

Kyung-Su Kim, Min-Jeong Lee, and Heung-Kyu Lee

Korea Advanced Institute of Science and Technology, Korea

**C01**

*Steganography and Information Security*

Xia-Mu Niu, Harbin Institute of Technology, China

**C01-01, IIHMSp-2007-0259**

*Enhancement of the Mutual Authentication protocol on RFID Passive Tags*

Kuo-Ching Liu, Hsin-Wei Wang, and Hui-Feng Huang

National Taichung Institute of Technology, Taiwan

**C01-02, IIHMSp-2007-0293**

*Adaptive Digital Audio Steganography Based on Integer Wavelet Transform*

Ahmad Delforouzi and Mohammad Pooyan

Shahed University, Iran

**C01-03, IIHMSp-2007-0332**

*Security Analysis of RFID Based on Multiple Readers*

Jia-Lin Ma, Xu Wei, and Jie Liu

Shenyang Normal University, China

**C01-04, IIHMSp-2007-0461**

*A Steganographic Method Based on a File Attribute*

Hirohisa Hioki

Kyoto University, Japan

**C01-05, IIHMSp-2007-0662**

*Sending Mobile Software Activation Code by SMS Using Steganography*

M. Hassan Shirali-Shahreza and Mohammad Shirali-Shahreza

Sharif University of Technology, Iran

**C01-06, IIHMSp-2007-0739**

*Complementary Steganography in Error-Diffused Block Truncation Coding Images*

Jing-Ming Guo

National Taiwan University, Taiwan

**C01-07, IIHMSp-2007-1083**

*Framework for Windows Password Function Security Enhancement*

Li Li, Jing Wu, Xiao-Wei Guo, Meng Li, and Xia-Mu Niu

Harbin Institute of Technology, China

**C02, IIHMSP-2007-IS20**

*Web Intelligence and Computational Intelligence*

Yang-Hsin Fan, National Taitung University, Taiwan

**C02-01, IIHMSP-2007-IS20-002**

*Construction of Collaborative Virtual Learning Communities in Peer-to-peer Networks*

Chun-hong Hu and Ming Zhao

Yangtze University, China

**C02-02, IIHMSP-2007-IS20-003**

*Research and Application of an Improved Genetic Algorithm on the Net Platform of “Digitized Party School”*

Shijue Zheng and Shiqian Wu

Normal University of Central China, China

**C02-03, IIHMSP-2007-IS20-006**

*A Multi-agent System for the Flexible Resource Constrained Project Scheduling*

Jingjing Liu and Bing Wu

Wuhan Polytechnic University, China

**C02-04, IIHMSP-2007-IS20-008**

*A Rule-based Chinese Question Answering System for Reading Comprehension Tests*

Xiaoyan Hao, Xiaoming Chang, and Kaiying Liu

Taiyuan University of Technology, China

**C02-05, IIHMSP-2007-IS20-009**

*Research on the Partner Selection of Virtual Enterprise Based on Self-adaptive Genetic Algorithm*

Mingzhi Huang and Chengwei Fan

Wuhan University of Technology, China

**C02-06, IIHMSP-2007-1149**

*A DNA Algorithm of Graph Vertex Coloring Problem based on Multi-separation*

Jun-Jie Chen, Hai-Fang Li, Yu-Xing Yang, and Ji-Lan Ma

Taiyuan University of Technology, China

**C03, IIHMSP-2007-IS21**

*Software and Hardware Designs of Multimedia Networking Embedded Systems*

Chao-Lieh Chen, Kun Shan University, Taiwan

Mong-Fong Horng, Shu-Te University, Taiwan

**C03-01, IIHMSP-2007-IS21-001**

*Video Streaming Using Overlay Multicast Scheme with Efficient and Load-Balance Path Diversity*

Jeng-Wei Lee, Jia-Ming Yang, Chao-Lieh Chen, and Yau-Hwang Kuo

Kun-Shan University, Taiwan

**C03-02, IIHMSP-2007-IS21-004**

*An Architecture for the Interoperability of Multimedia Messaging Services between GPRS and PHS Cellular Networks*

Wen-Chuan Hsieh, Wei-Chung Hsu, and Yu-Yuan Hsu

Shu-Te University, Yanchao, Taiwan

**C03-03, IIHMSP-2007-IS21-005**

*A DC-based Approach to Robust Watermarking with Hamming-Code*

Ming-Harn Lee, Mong-Fong Horng, and Bo-Chao Chang

Shu-Te University, Kaohsiung, Taiwan

**C03-04, IIHMSP-2007-0018**

*Design and Simulation of VHDL based ARP Cache*

Tian-Hua Liu, Hong-Feng Zhu, Chuan-Sheng Zhou, and Gui-Ran Chang

Northeastern University, China

**C03-05, IIHMSP-2007-0099**

*Implementation of a General Reduced TCP/IP Protocol Stack for Embedded Web Server*

Chuan-Sheng Zhou and Fu Chong

Shenyang Normal University, China

**C03-06, IIHMSP-2007-0156**

*Fuzzy Control for Networked Control System*

Zhi-Yi Sun and Chao-Zhen Hou

Beijing Institute of Technology, China

**C03-07, IIHMSP-2007-0933**

*The AES Design Space Exploration with a Soft IP Generator*

Liang-Bi Chen, Ching-Chi Hu, Yen-Ling Chen, Chi-Wei Chu, and Ing-Jer Huang

National Sun Yat-Sen University, Taiwan

**C04, IHMSP-2007-IS22**

*Recognizing Humans and Human Behavior in Video*

Sheng-Wen Shih, National Chi Nan University, Taiwan

Duan-Yu Chen, Academia Sinica, Taiwan

**C04-01, IHMSP-2007-IS22-001**

*Biometric Verification by Fusing Hand Geometry and Palmprint*

Wen-Shiung Chen, Yao-Shan Chiang, and Yen-Hsun Chiu

National Chi Nan University, Taiwan

**C04-02, IHMSP-2007-IS22-002**

*Cascading Rectangle and Edge Orientation Features for Fast Pedestrian Detection*

Yu-Ting Chen and Chu-Song Chen

Academia Sinica, Taiwan

**C04-03, IHMSP-2007-IS22-003**

*Feature Selection for Iris Recognition with AdaBoost*

Kan-Ru Chen, Chia-Te Chou, Sheng-Wen Shih, Wen-Shiung Chen, and Duan-Yu Chen

National Chi Nan University, Taiwan

**C04-04, IHMSP-2007-IS22-004**

*Edge-based Lane Change Detection and its Application to Suspicious Driving Behavior Analysis*

Sin-Yu Chen and Jun-Wei Hsieh

Yuan Ze University, Taiwan

**C04-05, IHMSP-2007-0152**

*Fast Intra Prediction Mode Decision Algorithm for H.264/AVC Video Coding Standard*

Chih-Hsien Hsia, Jen-Shiun Chiang, Ying-Hong Wang, and Tsai-Yuan Teng

Tamkang University, Taiwan

**C04-06, IHMSP-2007-0303**

*Shot Segmentation and Classification in Basketball Videos*

Lifang Wu, Xiuli Han, Hao Cui, and Wei Shen

Beijing University of Technology, China

**C04-07, IHMSP-2007-0407**

*Template-Based Scene Classification for Baseball Videos Using Efficient Playfield Segmentation*

Wei-Han Chang, Nai-Chung Yang, Chung-Ming Kuo, and Ching-Hsuan Lin

Chaoyang University, Taiwan

**C05, IIHMSP-2007-IS23**

*Video Surveillance*

Jun-Wei Hsieh, Yuan-Ze University, Taiwan  
Hong-Yuan Mark Liao, Academia Sinica, Taiwan

**C05-01, IIHMSP-2007-IS23-001**

*An Improved Face Detection Method in Low-resolution Video*

Chih-Chung Hsu, Hsuan T. Chang, and Ting-Cheng Chang  
National Yunlin University of Science and Technology

**C05-02, IIHMSP-2007-IS23-002**

*Face Detection and Authentication in a Large Space*

Ying-Nong Chen, Gang-Feng Ho, Kuo-Chin Fan, and Chin-Chuan Han  
National Central University, Taiwan

**C05-03, IIHMSP-2007-IS23-003**

*Multi-Mode Target Tracking on a Crowd Scene*

Cheng-Chang Lien, Jian-Cheng Wang, and Yue-Min Jiang  
Chung Hua University, Taiwan

**C05-04, IIHMSP-2007-IS23-004**

*Facial Expression Recognition with Discriminative Common Vector*

Yuan-Kai Wang and Chun-Hao Huang  
Fu Jen Catholic University, Taiwan

**C05-05, IIHMSP-2007-IS23-005**

*Cascaded Face Detector with Multiple Templates*

Yea-Shuan Huang, Hua-Ching Yan, and Ting-Chia Hsu  
Chung Hua University, Taiwan

**C05-06, IIHMSP-2007-1163**

*Improved Adaptive Lifting Scheme for Wavelet-Based Image Compression*

Qiong Li, Guo-Qiang Li, Yi-Liang He, and Xia-Mu Niu  
Harbin Institute of Technology, China

**C06, IIHMSP-2007-IS24**

*Intelligent Video Processing*

Chao-Ho (Thou-Ho) Chen, National Kaohsiung University of Applied Sciences, Taiwan

Ming-Hwa Sheu, National Yunlin University of Science and Technology, Taiwan

**C06-01, IIHMSP-2007-IS24-001**

*Applying the CDHS to Improve the MAP-Based Algorithm in Super Resolution Reconstruction from Sequences*

Hsi-Kuan Chen, Chin-Hsing Chen, and Shih-Jen Wang

National Cheng Kung University, Taiwan

**C06-02, IIHMSP-2007-IS24-002**

*A Resistor String DAC for Video Processing*

De-Ji Liu, Chien-Hung Lin, Shu-Chung Yi, and Jin-Jia Chen

National Changhua University of Education, Taiwan

**C06-03, IIHMSP-2007-IS24-003**

*A Chinese Abacus DAC for Video Applications*

Shun-He Huang, Chien-Hung Lin, Shu-Chung Yi, and Jin-Jia Chen

National Changhua University of Education, Taiwan

**C06-04, IIHMSP-2007-IS24-005**

*A Fast Video Noise Reduction Method by Using Object-Based Temporal Filtering*

Thou-Ho (Chao-Ho) Chen, Zhi-Hong Lin, Chin-Hsing Chen, and Cheng-Liang Kao

National Kaohsiung University of Applied Sciences, Taiwan

**C06-05, IIHMSP-2007-IS24-006**

*Vehicle Detection and Counting by Using Headlight Information in the Dark Environment*

Thou-Ho (Chao-Ho) Chen, Jun-Liang Chen, Chin-Hsing Chen, and Chao-Ming

National Kaohsiung University of Applied Sciences, Taiwan

**C06-06, IIHMSP-2007-IS24-007**

*An Adaptive Random-valued Impulse Noise Reduction Method Based on Noise Ratio Estimation in Highly Corrupted Images*

Thou-Ho(Chao-Ho) Chen, Chao-Yu Chen, and Chin-Hsing Chen

National Kaohsiung University of Applied Sciences, Taiwan

**C06-07, IIHMSP-2007-IS24-009**

*A Real-Time Video Noise Reduction Algorithm in the Dusk Environment*

Thou-Ho (Chao-Ho) Chen, Chao-Yu Chen, Shi-Feng Huang, and Chin-Hsing Chen

National Kaohsiung University of Applied Sciences, Taiwan



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*Novel Computation on Finance and Management*

Po-Chang Ko, National Kaohsiung University of Applied Sciences, Taiwan  
Ping-Chen Lin, National Kaohsiung University of Applied Sciences, Taiwan

**C07-01, IIMSP-2007-IS25-001**

*Pricing Credit-Linked Notes Issued by the Protection Buyer and an SPV*

Chou-Wen Wang and Chia-Chien Chang  
National Kaohsiung First University of Science and Technology, Taiwan

**C07-02, IIMSP-2007-IS25-002**

*Financial Accelerator Effect and Macroeconomic Fluctuations*

Jui-Chuan Chang  
National Chi Nan University, Taiwan

**C07-03, IIMSP-2007-IS25-003**

*Application of Artificial Neural Network to Corporate Liquidity Determination*

Naiwei Chen and Yakuang Liu  
National Chung Cheng University, Taiwan

**C07-04, IIMSP-2007-IS25-004**

*Optimal Pricing Strategy for Queuing Systems with Capacity Constraint Problem*

Pen-Yuan Liao  
National United University, Taiwan

**C07-05, IIMSP-2007-IS25-005**

*The Application of Fuzzy Evaluating Approach on Banking Operating Performance in Taiwan: An Empirical Study*

Tien-Tsai Huang  
Lunghwa University of Science and Technology, Taiwan

**C07-06, IIMSP-2007-IS25-007**

*Fault-tree Analysis of Intuitionistic Fuzzy Sets for Liquefied Natural Gas Terminal Emergency Shut-down System*

Chiu-Lien Lee and Ming-Hung Shu  
National Kaohsiung University of Applied Sciences, Taiwan

**C07-07, IIMSP-2007-1100**

*Genetic Algorithm in Vehicle Routing Problem*

Yueqin Zhang, Jinfeng Liu, Fu Duan, and Jing Ren  
Taiyuan University of Technology, China

**C08, IIHMSP-2007-IS26**

*Intelligent Data Analysis*

Tzung-Pei Hong, National University of Kaohsiung, Taiwan

Wen-Yang Lin, National University of Kaohsiung, Taiwan

**C08-01, IIHMSP-2007-IS26-001**

*An Enhanced ACO Algorithm for Multi-objective Maintenance Scheduling of Oil Tanks*

Cheng-Chung Hsu, Sheng-Tun Li, Chih-Chuan Chen, and Ti-Yen Yang

Cheng-Shiu University, Taiwan

**C08-02, IIHMSP-2007-IS26-002**

*A Multi-Objective Particle Swarm Optimization Algorithm for Rule Discovery*

Sheng-Tun Li, Chih-Chuan Chen, and Jian Wei Li

National Cheng Kung University, Taiwan

**C08-03, IIHMSP-2007-IS26-003**

*Fuzzy Rating Framework for Knowledge Management*

Sheng-Tun Li and Hei-Fong Ho

National Cheng Kung University, Taiwan

**C08-04, IIHMSP-2007-IS26-006**

*Integrating Multiple Knowledge Sources by Genetic Programming*

Chan-Sheng Kuo, Tzung-Pei Hong, and Chuen-Lung Chen

National Chengchi University, Taiwan

**C08-05, IIHMSP-2007-0825**

*A Unified Multilingual and Multimedia Data Mining Approach for Cancer Knowledge Discovery*

Chung-Hong Lee, Chih-Hong Wu, Hsiang-Hang Chung, and Hsin-Chang Yang

National Kaohsiung University of Applied Sciences, Taiwan

**C08-06, IIHMSP-2007-0896**

*Fuzzy Belief Reasoning for Intrusion Detection Design*

Te-Shun Chou, Kang K. Yen, Niki Pissinou, and Kia Makki

Florida International University, USA

**C08-07, IIHMSP-2007-1257**

*An Optimized Approach on Applying Genetic Algorithm to Adaptive Cluster Validity Index*

Lei Sun, Tzu-Chieh Lin, Hsiang-Cheh Huang, Bin-Yih Liao, and Jeng-Shyang Pan

Harbin Institute of Technology, China

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*Intelligent Information Processing in Wireless Sensor Networks*

Sheng-Tzong Cheng, National Cheng Kung University, Taiwan

Chia-Mei Chen, National Sun Yat-Sen University, Taiwan

**C09-01, IIHMSp-2007-IS27-001**

*Distributed Detection of Wormholes and Critical Links in Wireless Sensor Networks*

Yung-Tsung Hou, Chia-Mei Chen, and Bingchiang Jeng

National Sun Yat-Sen University, Taiwan

**C09-02, IIHMSp-2007-IS27-002**

*Information Exchange Mechanism Based on Reputation in Mobile P2P Networks*

Wei Yu Lai, Chia-Mei Chen, Bingchiang Jeng, Gu Hsin Lai, and Hsiao-Chung Lin

National Sun Yat-Sen University, Taiwan

**C09-03, IIHMSp-2007-IS27-003**

*Scalable Anycast System based on OSPF*

Wei Kuang Lai and Chen-Da Tsai

National Sun Yat-Sen University, Kaohsiung, Taiwan

**C09-04, IIHMSp-2007-0024**

*A Multi-path Routing Protocol with Reduced Control Messages for Wireless Sensor Networks*

Che-Wei Hsu, Chin-Shiuh Shieh, and Wei Kuang Lai

National Kaohsiung University of Applied Sciences, Taiwan

**C09-05, IIHMSp-2007-0241**

*Fault Tolerant Reconstruction Algorithm Based on Distributed Agents for Network Management*

Hang Li, Jie Liu, and Jing Bi

Shenyang Normal University, China

**C09-06, IIHMSp-2007-0351**

*An Energy-Efficient Clustering Algorithm for Wireless Sensor Network*

Ying Liang and Hang Li

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**C09-07, IIHMSp-2007-0565**

*An Effective Privacy-Preserving RFID Scheme against Desynchronization*

Min-Hua Shao

National Pingtung University of Science and Technology, Taiwan

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*Digital Watermarking Techniques (II)*

Florent Autrusseau, Université de Nantes, France

**C10-01, IIHMSp-2007-0871**

*A Study of Content based Watermarking using an Advanced HVS Model*

Florent Autrusseau, Patrick Le Callet, and Alexandre Ninassi

Université de Nantes, France

**C10-02, IIHMSp-2007-0882**

*Reducing Host Interference from Spread Spectrum Watermarking*

Saeed Sedghi and Yôiti Suzuki

Ferdowsi University of Mashhad, Iran

**C10-03, IIHMSp-2007-0911**

*Punched Image Watermarking: A Novel Fast Fractal Coding Based Technique*

Said E. El-Khamy, Mohamed Khedr, and Ahmad Al-Kabbany

Alexandria University, Egypt

**C10-04, IIHMSp-2007-0966**

*Protecting Mobile Agent's Computation Results with Reversible Watermarking and Digital Signature*

Abid Khan, Xiamu Niu, and Zhang Yong

Harbin Institute of Technology, China

**C10-05, IIHMSp-2007-1027**

*Watermarking Technique for HDL-based IP Module Protection*

Min-Chuan Lin, Guo-Ruey Tsai, Chun-Rong Wu, and Ching-Hui Lin

Kun Shan University, Taiwan

**C10-06, IIHMSp-2007-1052**

*Robust Block-based Image Watermarking in Curvelet Transform*

Peining Tao and Ahmet M. Eskicioglu

The City University of New York, USA

**C11***Information Hiding Techniques*

Ajith Abraham, Norwegian University, Norway

**C11-01, IIHMSp-2007-0404***High-Capacity Data Hiding Using Virtual Window Partition*

Chin-Feng Lee and Hsing-Ling Chen

Chaoyang University of Technology, Taiwan

**C11-02, IIHMSp-2007-0440***Hiding Data in Ordered Dithering Halftone Images by Bit Interleaving*

Brian K. Lien and Bo-Wei Shiue

Fu Jen Catholic University, Taiwan

**C11-03, IIHMSp-2007-0624***Robust Near-Reversible Data Embedding Using Histogram Projection*

Yuan-Liang Tang and Hui-Tzu Huang

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**C11-04, IIHMSp-2007-0669***Secret Sharing and Information Hiding by Shadow Images*

Chin-Chen Chang and The Duc Kieu

Feng Chia University, Taiwan

**C11-05, IIHMSp-2007-0709***Information Protection and Recovery with Reversible Data Hiding*

Hsiang-Cheh Huang, Jeng-Shyang Pan, Yu-Hsiu Huang, and Yuh-Yih Lu

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**C11-06, IIHMSp-2007-0812***An LSB Data Hiding Technique Using Natural Number Decomposition*

Sandipan Dey, Ajith Abraham, and Sugata Sanyal

Norwegian University, Norway

**C12***Cross-discipline Techniques*

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**C12-01, IIHMS-2007-0743***Imitation Output Characteristic of Turbine Control based on Servos Interface Technology*

Xiao-Wei Wang, Ying-Ming Liu, and Feng Li

Shenyang Normal University, China

**C12-02, IIHMS-2007-0938***Combination of Multiple Classifiers for Improving Emotion Recognition in Mandarin Speech*

Tsang-Long Pao, Charles S Chien, Yu-Te Chen, Jun-Heng Yeh, Yun-Maw Cheng, and Wen-Yuan Liao

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**C12-03, IIHMS-2007-0990***Audio-Visual Speech Recognition with Weighted KNN-based Classification in Mandarin Database*

Tsang-Long Pao, Wen-Yuan Liao, and Yu-Te Chen

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**C12-04, IIHMS-2007-1017***Continuous Tracking of User Emotion in Mandarin Emotional Speech*

Tsang-Long Pao, Charles S Chien, Jun-Heng Yeh, Yu-Te Chen, and Yun-Maw Cheng

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**C12-05, IIHMS-2007-1033***The System for the Reduction of Conducted Electromagnetic Interference Emission from Switching Power Supply*

Yuh-Yih Lu, Zhi-Hua Chen, and Hsiang-Cheh Huang

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**C12-06, IIHMS-2007-1072***Anonymity in PKI Environment*

Chuan-Jun Wang, Xia-Mu Niu, and Yong Zhang

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Jin-Bao Liu, Xian-Qing Hu, Qiong Li, and Xia-Mu Niu

Harbin Institute of Technology, China

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*A GA-based Optimal Image Watermarking Technique*

Ning Zhong, Jing-Ming Kuang, and Zun-Wen He

Beijing Institute of Technology, China

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*Image Authentication in Print-and-scan Scenario*

Longjiang Yu and Shenghe Sun

Harbin Institute of Technology, China

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*A Multi-Sensor Fusion Method Applied to Stability Diagnosis Based on Distributed Neyman-Pearson Algorithm*

Jie Liu and Qingdong Du

ShenYang Normal University, China

**P01-04, IJHMSP-2007-0123**

*A New Neural Fusion Recognition Method with Multi-Agent*

Qingdong Du and Jie Liu

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*Synchronization for Rossler chaotic systems using fuzzy impulsive controls*

Yi-Bei Nian and Yong-Ai Zheng

Yangzhou University, China

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*Detection of Hidden Information in Tags of Webpage Based on Tag-Mismatch*

Hua-Jun Huang, Xing-Ming Sun, Guang Sun, and Jun-Wei Huang

Hunan University, China

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*MRI Brain Phase Image Unwrapping Process by Wavelet Zero-Padding Technique*

Puu-An Juang and Ming-Ni Wu

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Tao Meng, Xinping Zhang, and Shenghe Sun

Harbin Institute of Technology, China

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*An Efficient Steganography Scheme for M-Commerce*

Iuon-Chang Lin, Yang-Bin Lin, and Chung-Ming Wang

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*A Dynamic Step-Size Updating Rule for Single Distribution Blind Source Separation*

Xuansen He

Hunan University, China

**P02-04, IIHMSp-2007-0284**

*Selective Extraction of Visual Saliency Objects in Images and Videos*

Zhi-Cheng Zhao and An-Ni Cai

Beijing university, China

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*An Information Hiding Method based on SOAP*

Xiaofen Zhang, Hong Wang, and Jing Sun

Shenyang Normal University, China

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*HMM Based Eyebrow Recognition*

Yujian Li and Xingli Li

Beijing University of Technology, China

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*Research on Routing Protocols Based on ZigBee Network*

Jing Sun, Zhongxiao Wang, Hong Wang, and Xiaofen Zhang

Shenyang Normal University, China



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*An Evaluation Scheme for Steganalysis-proof Ability of Steganographic Algorithms*

Gang Luo, Xing-Ming Sun, Ling-Yun Xiang, and Jun-Wei Huang

Hunan University, China

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*MB-Activity Measure Based Slice Grouping and Unequal Error Protection for H.264/AVC Video Transmission over Wireless Networks*

Yubin Cui, Bojin Zhuang, and Anni Cai

Beijing University, China

**P03-03, IIHMSp-2007-0510**

*New Video Watermarking Scheme by Using Dither Modulation to Local Energy*

Xiao-Yan Liu, Li-Hong Ma, and Hu-Yun Yin

South China University Technology, China

**P03-04, IIHMSp-2007-0542**

*Brain Tumor Detection Using Color-Based K-Means Clustering Segmentation*

Ming-Ni Wu, Chia-Chen Lin, and Chin-Chen Chang

National Chung Cheng University, Taiwan

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*Double-Density Discrete Wavelet Transform Based Texture Classification*

Yu-Long Qiao, Chun-Yan Song, and Chun-Hui Zhao

Harbin Engineering University, China

**P03-06, IIHMSp-2007-0698**

*X-ray Image Reconstruction by Radon Transform Simulation with Fan-Beam Allocation*

Puu-An Juang and Ming-Ni Wu

National Chung-Hsing University, Taiwan

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*An Arbitrary Block Resizing Algorithm in Transform Domain*

Zhenyu Wu and Bin Tang

University of Electronic Science and Technology of China, China

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*Maximal Sequential Pattern Mining Based on Simultaneous Monotone and Anti-monotone Constraints*

Jia-Dong Ren, Ya-Fei Sun, and Sheng Guo

Yanshan University, China

**P04-02, IIMSP-2007-0754**

*Ensemble HMM Learning for Motion Retrieval with Non-linear PCA Dimensionality Reduction*

Jian Xiang and Hong-Li Zhu

ZheJiang University, China

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*A Hybrid Adaptive Evolutionary Algorithm for Constrained Optimization*

Xiang Li and Xi-Ming Liang

Hunan University, China

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*The Distance-guided Particle Swarm Optimizer with Dynamic Mutation*

Chunhe Song, Hai Zhao, Wei Cai, Haohua Zhang, Ming Zhao, Wei Gao, Xuanjie Ning, Xudong Han,

Peng Zhu, Jie Gao, Tianyu Qi, and Hongyan Gong

Northeast University, China

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*The Input-interface of Webcam Applied in the Digital Content Interaction*

Huey-Min Sun and Wen-Lin Cheng

Chang Jung Christian University, Taiwan

**P04-06, IIMSP-2007-0816**

*A Modified Particle Swarm Optimization Algorithm with Dynamic Adaptive*

Bo Yang, Ding-Xue Zhang, and Rui-Quan Liao

Huazhong University, China

**P04-07, IIMSP-2007-0844**

*A High-Efficiency Recursive Algorithm without Numerical Instability for Polynomial Predistorter Design*

Xu Lingjun, Su Gang, Liu Zhijun, Wang Yong, and Zhang Ping

Beijing University, China

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**P05-01, IIHMS-2007-0864**

*A Novel Scheme for Watermarking Natural Language Text*  
Jianlong Yang, Jianmin Wang, Chaokun Wang, and Deyi Li  
Tsinghua University, China

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*A New Scheme of Iris Image Quality Assessment*  
Guangming Lu, Jiayin Qi, and Qingmin Liao  
Tsinghua University, China

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*An Auto-generating Approach of Transactions Profile Graph in Detection of Malicious Transactions*  
Jinfu Chen, Yansheng Lu, and Xiaodong Xie  
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*Find Recent Frequent Items with Sliding Windows in Data Streams*  
Jiadong Ren and Ke Li  
Yanshan University, China

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Guo-Shiang Lin, Min-Kuan Chang, and Shien-Tang Chiu  
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*DCT-Based Reversible Image Watermarking Approach*  
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*Application of LDPC Codes over  $GF(q)$  to DFH Communication System*  
Yu-Jie Bai, Wei-Xiong Luo, and Li Han  
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Jia-Hong Lee and Mei-Yi Wu

National Kaohsiung First University of Science and Technology, Taiwan

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*Integrating Genetic and Ant Algorithm into P2P Grid Resource Discovery*

Zenggang Xiong, Yang Yang, Xuemin Zhang, Fu Chen, and Li Liu

University of Science and Technology Beijing, China

**P06-03, IIMSP-2007-1069**

*Research on pertinence of QoS Metrics based on IEEE 802.15.4 in Wireless Sensor Networks*

Xuemin Zhang and Zenggang Xiong

Xiaogan University, China

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*A New Multi-quality Image Fusion Method in Visual Sensor Network*

Minghua Yang, Yuanda Cao, Li Tan, Changyou Zhang, and Jiong Yu

Beijing Institute of Technology, China

**P06-05, IIMSP-2007-1108**

*On the Convergence Behavior of the FastICA Algorithm with the Kurtosis Cost Function*

Changyuan Fan and Xiayu Mu

Chengdu University of Information Technology, China

**P06-06, IIMSP-2007-1124**

*The Particle Swarm Optimization Algorithm: How to Select the Number of Iteration*

Bo Li and Ren-Yue Xiao

South China University of Technology, China

**P06-07, IIMSP-2007-1175**

*Extracting Emotional Semantics from Color Image using Analytical Hierarchy Process*

Haifang Li, Jin Li, Jiancheng Song, and Junjie Chen

Taiyuan University of Technology, China

**P06-08, IIMSP-2007-0129**

*Research of P2P Traffic Identification Based on BP Neural Network*

Fuke Shen, Change Pan, and Xiaoli Ren

East China Normal University, China

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*An Improved Multi-Stage Vector Quantization for Image Coding*

Meng Wang, Hui-Ping Ma, Chong-Qing Zhou, and Bian Yang

Harbin Institute of Technology, China

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*Performance Analysis of Digital Image Fingerprinting Based on Design of Experiments*

Chun Farn Leong, Bee Ee Khoo, and Zalina binti Abdul Aziz

Universiti Sains Malaysia, Malaysia

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*Principal Component Analysis of O-linked Glycosylation Sites in Protein Sequence*

Xue-mei Yang, Yen-Wei Chen, Masahiro Ito, and Ikuko Nishikawa

Xianyang Normal University, China

**P07-04, IIHMSp-2007-IS09-002**

*A Digital Watermarking Algorithm for Certificate Identifying*

Li Li, Nina Sun, and Bin Luo

AnHui University, China

**P07-05, IIHMSp-2007-IS09-003**

*Image Watermarking Robust to Four-Color Printing and Fragile to High Resolution Copy*

Li Li

Hangzhou Dianzi University, China

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*Content-based Rate Controlled Data Hiding in JPEG-LS*

Jeanne Chen and Tung-Shou Chen

National Taichung Institute of Technology, Taiwan

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*Traffic Detection at Nighttime Using Entropy Measurement*

Wei-Lieh Hsu, Chang-Lung Tsai, and Tsung-Lun Chen

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*Design and Application of Large-scale Project Management System based on Software Bus*

Lie-yun Ding, Guang Zeng, and Ying Zhou

Huazhong University of Science & Technology, China

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*A Method of Ontology Mapping Based on Instance*

Tao Jin, Yuchen Fu, Xinhong Lin, Quan Liu, and Zhiming Cui  
Soochow University, China

**P08-02, IIMSP-2007-IS17-003**

*Artificial Immune Recognition System as a New Classifier for Reservoir Operating Rules Extraction*

Xiao-lin Wang and Zheng-jie Yin  
Wuhan University, China

**P08-03, IIMSP-2007-IS17-004**

*Brief Analysis of the H.264 Coding Standard*

Yun Wu, Yong Zhao, and Jianshi Li  
Guizhou University, China

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*The Surplus Partition in a Simultaneous Offers—Bargaining Game*

Zhenwen Zhang, Xueguang Chen, and Chen Chen  
Huazhong University of Science and Technology, China

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*Application of Data Mining in Physical Statistics and Evaluation*

Jihui Zhang and Qi Luo  
Huazhong Normal University, China

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*Analysis of Insurance Contract with the Auditing Efforts*

Xiaogang Xiang and Zhenwen Zhang  
Wuhan University of Science and Engineering, China

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*Authentication and Quality Monitoring based on Audio Watermark for Analog AM Shortwave Broadcasting*

Ming Li, Yun Lei, Xiang Zhang, Jian Liu, and Yonghong Yan  
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*Using Knowledge Management Technologies to Develop Reflective Learning*

Ming-zhang Zuo, Ling-yun Yi, and Gan-nian Zhang  
Central China Normal University Country, China

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*Research on Knowledge Management Framework Based on Peer-to-peer Computing*

Wei-dong Yang and Ming Zhao

Yangtze University, China

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*Study on the Division Tactics of Top Swimming Athletes Home and Abroad in the 400m Freestyle Swimming Race*

Weitao Zheng, Zihua Zhang, Ting Liao, Tuanjie Zhao, and Yong Ma

Wuhan Institute of Physical Education, China

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*Research on Scientific Constructions of CAI English Teaching System*

Xianzhi Tian

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*Search RNN on Broadcast Environment*

Lien-Fa Lin

National Cheng-Kung University, Taiwan

**P09-05, IIHMSP-2007-IS24-004**

*The VLSI Design of Winscale for Digital Image Scaling*

Chung-chi Lin, Zeng-chuan Wu, Wen-kai Tsai, Ming-hwa Sheu, Huann-keng Chiang

National Yunlin University of Science and Technology, Taiwan

**P09-06, IIHMSP-2007-IS24-008**

*A Cost-Effective Noise-Reduction Filtering Structure Based on Unsymmetrical Working Windows*

Chin-Fa Hsieh, Tsung-Han Tsai, Shu-Ping Chang, and Tai-An Shan

China Institute of Technology, Taiwan

**P09-07, IIHMSP-2007-IS25-006**

*An Intellectual Capital Performance Evaluation Based on Fuzzy Linguistic*

Wei-Shen Tai and Chen-Tung Chen

National Yunlin University of Science and Technology, Taiwan

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*A Decomposition Approach for Mining Frequent Itemsets*

Jen-Peng Huang, Guo-Cheng Lan, Huang-Cheng Kuo, and Tzung-Pei Hong

Southern Taiwan University of Technology, Taiwan