

Conference Schedule

September 11, 2009

14:00 | Registration
 17:00 | **Lobby (6F)**

September 12, 2009

09:00 | Opening
 09:15 | **Conference room A (6F)**

09:15 | Keynote Speech I
 10:15 | **Conference room A (6F)**

10:15 | Coffee Break

10:30 | **In the front of Conference room A (6F)**

10:30	Session A01 : Multimedia Signal Processing for Intelligent Applications Session Room A	Session A02 : Techniques and Algorithms for Multimedia Security Session Room B	Session A03 : Visual Based Context Awareness Computin Session Room C	Session A04 : Wired and Wireless Multimedia Networking and Applications Session Room D	Session A05 : Intelligent Surveillance and Pattern Recognition Session Room E
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14:00	Session A06 : Multimedia in Ubiquitous Computing and Application Services(I) Session Room A	Session A07 : Ubiquitous Multimedia Services and Applications for Residential Users(I) Session Room B	Session A8 : Steganography and Watermarking Session Room C	Session A09 : Advances in Biometrics(I) Session Room D	Session A10 : Circuit Techniques for Multimedia Signal Processing Session Room E
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16:00 | Coffee Break

16:20 | **In the front of Conference room A (6F)**

16:20	Session A11 : Multimedia in Ubiquitous Computing and Application Services(II) Session Room A	Session A12 : Ubiquitous Multimedia Services and Applications for Residential Users(II) Session Room B	Session A13 : Advanced Multimedia Processing and Retrievals Session Room C	Session A14 : Advances in Biometrics(II) Session Room D	Session A15 : Recent Technologies and Applications of Audio Data Hiding Session Room E
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19:00 | Reception
 20:30 | **MIELPARQUE, Kyoto (7F)**

September 13, 2009

Keynote Speech II

Conference room A (6F)

09:00

10:00

10:00

10:20

Coffee Break

In the front of Conference room A (6F)

Session B01 :

Coding and
Protocols in
Security and
Applications

Session Room A

Session B02 :

Intelligent Image
and Signal
Processing

Session Room B

Session B03 :

Intelligent
Document
Processing and
Management
Systems

Session Room C

Session B04 :

Protection and
Authentication
for Multimedia
Information

Session Room D

Session B05 :

Behavior
Analysis and
Abnormal Event
Detection

Session Room E

10:20

12:20

Session B06 :

Intelligent
Watermarking
Techniques,
Image

Authentication
and Visual
Cryptography(I)

Session Room A

Session B07 :

Digital Archives
and Digital
Heritages(I)

Session Room B

Session B08 :

Human Information
Processing and Its
Applications

Session Room C

Session B09 :

Statistical Image
Processing and
Application

Session Room D

Session B10 :

Image Processing
and VLSI
Implementation

Session Room E

14:00

16:00

Coffee Break

In the front of Conference room A (6F)

Session B11 :

Intelligent
Watermarking
Techniques,
Image

Authentication
and Visual
Cryptography(II)

Session Room A

Session B12 :

Digital Archives
and Digital
Heritages(II)

Session Room B

Session B13 :

Advanced
Reversible Data
Hiding and
Steganalysis

Session Room C

Session B14 :

Intelligent Image
Fusion and Its
Application

Session Room D

Session B15 :

Application of
Intelligent
Computing to
Signal and Image
Processing

Session Room E

16:20

18:20

19:00

21:00

Banquet

Genji Ballroom of Hotel Granvia Kyoto (3F)

September 14, 2009

Keynote Speech III
Conference room A (6F)

Coffee Break

In the front of Conference room A (6F)

09:00

10:00

10:00

10:20

10:20

12:20

14:00

16:00

16:00

16:20

16:20

18:20

Session D01 :
Industry Trends in
Information
Hiding and
Multimedia
Signal Processing
Session Room A

Session C01 :
Advanced Data
Hiding and Coding
Techniques for
Audio Signals
Session Room B

Session C02 :
Intelligent Video
Processing
Session Room C

Session C03 :
Internet
Multimedia
Technology and
Applications
Session Room D

Session C04 :
Advances in
Multimedia Signal
Processing and
Communications
Session Room B

Session C05 :
Multimedia Signal
Processing and
Application
Session Room C

Session C06 :
Multi-Dimension
al Signal
Processing,
Modeling and
Visualization
Session Room D

Coffee Break

In the front of Conference room A (6F)

Session C07:
Multimedia Signal
Processing for
Plasma Diagnostics
Session Room B

Session P01 :
Poster Session (I)
Session Room C

Session P02 :
Poster Session
(II)
Session Room D

Conference Program

September 11, 2009

Registration----- 14:00-17:00

September 12, 2009

Opening----- 09:00-09:15

Keynote Speech (I)----- 09:15-10:15

Coffee Break ----- 10:15-10:30

Session A01-A05 ----- 10:30-12:30

Session A06-A10 ----- 14:00-16:00

Coffee Break ----- 16:00-16:20

Session A11-A15 ----- 16:20-18:20

Reception ----- 19:00-20:30

September 13, 2009

Keynote Speech (II)----- 09:00-10:00

Coffee Break ----- 10:00-10:20

Session B01-B05 ----- 10:20-12:20

Session B06-B10 ----- 14:00-16:00

Coffee Break ----- 16:00-16:20

Session B11-B15----- 16:20-18:20

Banquet ----- 19:00-21:00

September 14, 2009

Keynote Speech (III)----- 09:00-10:00

Coffee Break ----- 10:00-10:20

Session D01 and Session C01-C03----- 10:20-12:20

Session C04-C06 ----- 14:00-16:00

Coffee Break ----- 16:00-16:20

Session C07 and Session P01 、 Session P02----- 16:20-18:20

Session List

September 12, 10:30-12:30

Session A01: [Advanced Data Hiding and Coding Techniques for Audio Signals](#)

Session A02: [Techniques and Algorithms for Multimedia Security](#)

Session A03: [Visual Based Context Awareness Computin](#)

Session A04: [Wired and Wireless Multimedia Networking and Applications](#)

Session A05: [Intelligent Surveillance and Pattern Recognition](#)

September 12, 14:00-16:00

Session A06: [Multimedia in Ubiquitous Computing and Application Services\(I\)](#)

Session A07: [Ubiquitous Multimedia Services and Applications for Residential Users\(I\)](#)

Session A08: [Steganography and Watermarking](#)

Session A09: [Advances in Biometrics\(I\)](#)

Session A10 [Circuit Techniques for Multimedia Signal Processing](#)

September 12, 16:20-18:20

Session A11: [Multimedia in Ubiquitous Computing and Application Services\(II\)](#)

Session A12: [Ubiquitous Multimedia Services and Applications for Residential Users\(II\)](#)

Session A13: [Advanced Multimedia Processing and Retrievals](#)

Session A14: [Advances in Biometrics\(II\)](#)

Session A15: [Recent Technologies and Applications of Audio Data Hiding](#)

September 13, 10:20-12:20

Session B01: [Coding and Protocols in Security and Applications](#)

Session B02: [Intelligent Image and Signal Processing](#)

Session B03: [Intelligent Document Processing and Management Systems](#)

Session B04: [Protection and Authentication for Multimedia Information](#)

Session B05: [Behavior Analysis and Abnormal Event Detection](#)

September 13, 14:00-16:00

Session B06: [Intelligent Watermarking Techniques, Image Authentication and Visual Cryptography\(I\)](#)

Session B07: [Digital Archives and Digital Heritages\(I\)](#)

Session B08: [Human Information Processing and Its Applications](#)

Session B09: [Statistical Image Processing and Application](#)

Session B10: [Image Processing and VLSI Implementation](#)

September 13, 16:20-18:20

Session B11: [Intelligent Watermarking Techniques, Image Authentication and Visual Cryptography\(II\)](#)

Session B12: [Digital Archives and Digital Heritages\(II\)](#)

Session B13: [Advanced Reversible Data Hiding and Steganalysis](#)

Session B14: [Intelligent Image Fusion and Its Application](#)

Session B15: [Application of Intelligent Computing to Signal and Image Processing](#)

September 13, 10:20-12:20

Session D01: [Industry Trends in Information Hiding and Multimedia Signal Processing](#)

Session C01: [Intelligent Video Processing](#)

Session C02: [Multimedia Signal Processing for Intelligent Applications](#)

Session C03: [Internet Multimedia Technology and Applications](#)

September 13, 14:00-16:00

Session C04: [Advances in Multimedia Signal Processing and Communications](#)

Session C05: [Multimedia Signal Processing and Application](#)

Session C06: [Multi-Dimensional Signal Processing, Modeling and Visualization](#)

September 13, 16:20-18:20

Session C07: [Multimedia Signal Processing for Plasma Diagnostics](#)

Session P01: [Poster Session \(I\)](#)

Session P02: [Poster Session \(II\)](#)

Session A01 : Multimedia Signal Processing for Intelligent

Applications

Session Chairs:

Dr. Yuan-Kai Wang, Fu Jen University, Taiwan

A01-01 【IIH-MSP-2009-IS32-01】

People Counting Using Multi-Mode Multi-Target Tracking Scheme

Cheng-Chang Lien, Ya-Lin Huang, and Chin-Chuan Han

Chung Hua University, Taiwan, R.O.C.

A01-02 【IIH-MSP-2009-IS32-02】

Human Behavior Description Model Based on Action Recognition

Fang-Hsuan Cheng and Cheng-Yuan Chang

Chung Hua University, Taiwan, R.O.C.

A01-03 【IIH-MSP-2009-IS32-03】

A New Feature Integration Approach and Its Application to 3D Model Retrieval

Jau-Ling Shih, Chang-Hsing Lee, Chih-Hsun Chou, and Yu-Cheng Chang

Chung Hua University, Taiwan, R.O.C.

A01-04 【IIH-MSP-2009-IS32-04】

Modulation Spectral Analysis of Static and Transitional Information of Cepstral and Spectral Features for Music Genre Classification

Chang-Hsing Lee, Hwai-San Lin, Chih-Hsun Chou, and Jau-Ling Shih

Chung Hua University, Taiwan, R.O.C.

A01-05 【IIH-MSP-2009-IS32-05】

Face Image Super-Resolution Using Two-dimensional Locality Preserving Projection

Yuan-Kai Wang and Cai-Ren Huang

Fu Jen University, Taiwan, R.O.C.

A01-06 【IIH-MSP-2009-233】

Random Number Generator Designed by the Divergence of Scaling Functions Jengnan

Tzeng, I-Te Chen, and Jer-Min Tsai

National Chengchi University, Taiwan, R.O.C.

A01-07 【IIH-MSP-2009-292】

A Provably Secure Two-Party Attribute-based Key Agreement Protocol

Hao Wang, Qiuliang Xu, and Tao Ban

Shandong University, China.

A01-08 【IIH-MSP-2009-317】

A Secure Steganography: Noisy Region Embedding

Yifeng Lu, Xiaolong Li, and Bin Yang

Peking University, China.

Session A02 : Techniques and Algorithms for Multimedia Security

Session Chairs:

Dr. Isao Echizen, National Institute of Informatics, Japan

Dr. Hideki Noda, Kyushu Institute of Technology, Japan

A02-01 【IIH-MSP-2009-IS02-01】

Security Evaluation of Biometrics Authentications for Cellular Phones

Hirokazu Manabe, Yuta Yamakawa, Tomohiro Sasamoto, and Ryoichi Sasaki
Tokyo Denki University, Japan.

A02-02 【IIH-MSP-2009-IS02-02】

Watermarking Cryptographic Data

Maki Yoshida and Toru Fujiwara
Osaka University, Japan.

A02-03 【IIH-MSP-2009-IS02-04】

Evaluation of Audio Watermark System Using Short Detection Time Frame

Takaaki Yamada, Yoshiyasu Takahashi, Ryu Ebisawa, Yoshinori Sato, and Seiichi Susaki
Systems Development Laboratory, Hitachi, Ltd., Japan.

A02-04 【IIH-MSP-2009-IS02-05】

Preventing False Positives in Content-Based Phishing Detection

Shinta Nakayama, Hiroshi Yoshiura, and Isao Echizen
The University of Electro-Communications, Japan.

A02-05 【IIH-MSP-2009-IS02-06】

XPROB - A Generalized Pool-Based Anonymous Communication Framework

Minh-Triet Tran, Anh-Duc Duong, and Isao Echizen
University of Science, Vietnam.

A02-06 【IIH-MSP-2009-IS02-07】

On Privacy-aware Delegation of Personal Data using Digital Watermarking

Sven Wohlgemuth, Isao Echizen, Noboru Sonehara, and Giiunter Miiuller
National Institute of Informatics, Japan.

A02-07 【IIH-MSP-2009-IS02-08】

Web behind Web — A Steganographic Web Framework

Hioki Hirohisa

Kyoto University, Japan.

A02-08 【IIH-MSP-2009-776】

Half-Zone Quantization Based Algorithm for Information Hiding

Ali Ameri Mahabadi and Mohammad Eshghi

Shahid Beheshti University, Iran.

Session A03 : Visual Based Context Awareness Computing

Session Chairs:

Dr. Jiann-Shu Lee, University of Tainan, Taiwan

Dr. Yu-Chih Huang, Tainan University of Technology, Taiwan

A03-01 【IIH-MSP-2009-IS04-01】

Image Watermarking Based on Multiple Objective Genetic Algorithm

Jiann-Shu Lee, Fong-Ping Chuang, and Kuen-Horng Tsai

National University of Tainan, Taiwan, R.O.C.

A03-02 【IIH-MSP-2009-IS04-02】

Feature Extraction for Face Recognition Based on Gabor Filters and Two-Dimensional Locality Preserving Projections

Yi-Chun Lee and Chin-Hsing Chen

National Cheng Kung University, Taiwan, R.O.C.

A03-03 【IIH-MSP-2009-IS04-03】

An Autonomous License Plate Detection Method

Hsiao-Chen Kuo, Jiann-Shu Lee, and Sho-Tsung Kao

Far East University, Taiwan, R.O.C.

A03-04 【IIH-MSP-2009-IS04-04】

Eye Tracking in Visible Environment

Yung-Lung Kuo, Jiann-Shu Lee, and Sho-Tsung Kao

Far East University, Taiwan R.O.C.

A03-05 【IIH-MSP-2009-IS04-06】

Aspect Ratio Waves for Gait Analysis

Kuo-Wei Lin and Pau-Choo Chung

National Cheng Kung University, Taiwan, R.O.C.

A03-06 【IIH-MSP-2009-614】

Adaptive Rate Control Scheme in Frame-layer for Real-time H.264

Myoung-Jin Kim and Min-Cheol

Soongsil University, Korea.

A03-07 【IIH-MSP-2009-429】

Robust Data Hiding on Texture Images

Hirofumi Otori and Shigeru Kuriyama

Toyohashi University of Technology, Japan.

A03-08 【IIH-MSP-2009-468】

An Adaptive Gradient-Projection Image Restoration using Local Statistics and Estimated Noise Characteristics

Joo-Yeon Hwang and Min-Cheol Hong

Session A04 : Wired and Wireless Multimedia Networking and Applications

Session Chairs:

Dr. Takuo Nakashima, Tokai University, Japan

A04-01 【IIH-MSP-2009-IS07-01】

A New Approach to the Dynamic Timeline of Animation Engine

Ning-Ping Sun, Kentarou Okumura, and Wen-Ling Sun
Kumamoto National College of Technology, Japan.

A04-02 【IIH-MSP-2009-IS07-02】

An Alternative Algorithm of Triangulation of Polygons with Holes

Ning-Ping Sun, Satoshi Tanaka, and Wen-Ling Sun
Kumamoto National College of Technology, Japan.

A04-03 【IIH-MSP-2009-IS07-03】

DoS/DDoS Detection Scheme using Statistical Method based on the Destination Port Number

Shunsuke Oshima, Arata Hirakawa, Takuo Nakashima, and Toshinori Sueyoshi
Kumamoto University, Japan.

A04-04 【IIH-MSP-2009-227】

Random Number Generated from White Noise of Webcam

Jer-Min Tsai, I-Te Chen, and Jen-Gnan Tzeng
Kun Shan University, R.O.C.

A04-05 【IIH-MSP-2009-273】

Quantization Parameter Decision of Initial and Scene Change Frame in Real-Time H.264/AVC

Szu-Hong Wang and Shih-Chang Hsia
National Kaohsiung First University of Science and Technology, Taiwan, R.O.C

A04-06 【IIH-MSP-2009-344】

An Observer-based Method for Secure Communication

Long-Chang Chen, Tsair-Fwu Lee, Pei-Ju Chao, and Wen-Cheng Chen
National Kaohsiung University of Applied Sciences, Kaohsiung, Taiwan, R.O.C.

A04-07 【IIH-MSP-2009-389】

Performance Study of Asymmetric Traffic Load for OBS Ring Networks

Shih-Wei Kau, Wei-Ting Lu, Wen-Ping Chen, Tsair-Fwu Lee, and Cheng-Nan Tsai

National Kaohsiung University of Applied Science, R.O.C.

Session A05 : Intelligent Surveillance and Pattern Recognition

Session Chairs:

Dr. Tai-Ning Yang, Chinese culture University, Taiwan

Dr. Jimmy Tsai, Chinese culture University, Taiwan

A05-01 【IIH-MSP-2009-IS08-01】

Applications of Ontology in Management of Information Asset

Shing-Han Li and Kuo-Chung Wang

Tatung University, Taiwan, R.O.C.

A05-02 【IIH-MSP-2009-IS08-03】

High Dynamic Range Color Image Rendering with Human Visual Adaptation Simulation

Ping-Lin Fan, Shih-Ying Chen, Su-Ju Lu, Hsueh-Wu Wang, Joey Lin, Wei-Hsien Wu, and Yuan-Fan Tsai

National Taipei University of Education, Taiwan, R.O.C.

A05-03 【IIH-MSP-2009-IS08-04】

The design of remote Surveillance System for Digital Family

Chung-Hsin Liu and Chih-Chieh Fan

Chinese Culture University, Taiwan, R.O.C.

A05-04 【IIH-MSP-2009-IS08-05】

To Build Tele-care System Network Environment

Chung-Hsin Liu, Jiun-Ting Chen, Chung-Min Wu, and Chuen-Lung Chen

Chinese Culture University, Taiwan, R.O.C.

A05-05 【IIH-MSP-2009-IS08-06】

Traffic Warning and Vehicular Homogeneity Measurement Based on Multidimensional HMM Algorithm

Chang-Lung Tsai and Wei-Lieh Hsu

Chinese Culture University, Taiwan, R.O.C.

A05-06 【IIH-MSP-2009-IS08-07】

Singular Point Detection in Fingerprint Images by a Bank of Discrete Fourier Filters

Chih-Jen Lee, I-Horng Jeng, Tai-Ning Yang, Chun-Jung Chen, and Peng Su

Chinese Culture University, Taiwan, R.O.C.

A05-07 【IIH-MSP-2009-IS08-08】

Build a Home Security Surveillance System Using LEGO MINDSTROMS NXT

Kuo-Kai Hsu and Dwen-Ren Tsai

Chinese Culture University, Taiwan, R.O.C.

A05-08 【IIH-MSP-2009-IS08-09】

Touch-sensitive Alphanumeric Encrypting PIN Pad Design Based on Hamilton-connected Subgraph Recognition

I-Horng Jeng, Dwen-Ren Tsai, Hou-An Chen, Yi-Chun Yen, and Chien-Kang Cheng

Culture University, Taiwan, R.O.C.

Session A06 : Multimedia in Ubiquitous Computing and Application

Services(I)

Session Chairs:

Dr. Chin-Feng Lee, Chaoyang University of Technology, Taiwan

A06-01 【IIH-MSP-2009-IS10-01】

Comments on Gateway-Oriented Password-Based Authenticated Key Exchange Protocol

Tzong-Chen Wu and Hung-Yu Chien

National Taiwan University of Science and Technology, Taiwan, R.O.C.

A06-02 【IIH-MSP-2009-IS10-02】

Meaningful Inner Link Objects for Automatic Text Categorization

Jau-Ji Shen and Jia-Chiuan Wu

National Chung Hsing University, Taiwan, R.O.C.

A06-03 【IIH-MSP-2009-IS10-03】

Identity-based DRM in Ubiquitous Multimedia System

Chou-Chen Yang, Ju-Chun Hsiao, and Hung-Wen Yang

National Chung Hsing University, Taiwan, R.O.C.

A06-04 【IIH-MSP-2009-IS10-04】

A Novel Mutual Authentication Based on Data Embedding Technique

Chia-Chen Lin and Po-Hsuan Chiang

Providence University, Taiwan, R.O.C.

A06-05 【IIH-MSP-2009-IS10-05】

Embedding Secret Messages Using Modified Huffman Coding

Kuo-Nan Chen, Chin-Feng Lee, Chin-Chen Chang, and Huang-Ching Lin

National Chung Cheng University, Taiwan, R.O.C.

A06-06 【IIH-MSP-2009-564】

A Fast and Novel Intra and Inter Modes Decision Prediction Algorithm for H.264/AVC Based on the Characteristics of Macro-block

Pengyu Liu and Kebin Jia

Beijing University of Technology, China.

A06-07 【IIH-MSP-2009-119】

Study of Thangka Image Retrieval and Multimedia Presentation Management System

Weilan Wang

Northwest University, China.

A06-08 【IIH-MSP-2009-415】

An Image Processing Based Visual Compensation System for Vision Defects

Chin-Lun Lai and Shu-Wen Chang

Oriental Institute of Technology, Taiwan, R.O.C.

Session A07 : Ubiquitous Multimedia Services and Applications for

Residential Users(I)

Session Chairs:

Dr. Chien-Chou Lin National Yunlin University of Science and Technology, Taiwan

Dr. Mong-Fong Horng, National Kaohsiung University of Applied Sciences, Taiwan

Dr. Chin-Shiuh Shieh, National Kaohsiung University of Applied Sciences, Taiwan

A07-01 【IIH-MSP-2009-IS27-01】

Forecasting Exchange Rates by Genetic Algorithms Based Back Propagation Network Model

Jui-Fang Chang, Chi-Ming Kuan, and Yu-Wen Lin

National Kaohsiung University of Applied Sciences, Taiwan, R.O.C.

A07-02 【IIH-MSP-2009-IS27-02】

A Study on the Cache Miss Rate in a Genetic Algorithm Implementation

Feng-Cheng Chang and Hsiang-Cheh Huang

Tamkang University, Taiwan, R.O.C.

A07-03 【IIH-MSP-2009-IS27-05】

Two-phase Fuzzy-ART with Independent Component Analysis for Semantic Image Classification

Chuan-Yu Chang, Ru-Hao Jian, and Hung-Jen Wang

National Yunlin University of Science & Technology, Taiwan, R.O.C.

A07-04 【IIH-MSP-2009-IS27-06】

Using ZigBee and Room-Based Location Technology to Constructing an Indoor Location-Based Service Platform

Yuh-Ming Cheng

Shu Te University, Taiwan, R.O.C.

A07-05 【IIH-MSP-2009-IS27-08】

Text Steganography Based on Online Chat

Min-Hao Liu, Yun-Biao Guo, and Lin-Na Zhou

Beijing Application Institute of Electronic Technology, China

A07-06 【IIH-MSP-2009-IS27-09】

Perceptual Content Authentication and Tamper Detection of Facial Image

Qi Han, Qiong Li, and Xia-Mu Niu

Harbin Institute of Technology, China

A07-07 【IIH-MSP-2009-104】

Fast Channel Change IPTV System for Enhanced User Experience

Young-Ho Song and Taek-Geun Kwon

SIT Group, R&D Center NDS KR, Korea.

A07-08 【IIH-MSP-2009-610】

Mental Rotation by Neural Network

Toshihiko Sasama, Hiroshi Mitsumoto, Kazuyo Yoneda, and Shinichi Tamura

Tottori University, Japan.

Session A08 : Steganography and Watermarking

Session Chairs:

Dr. Ching-Yu Yang, Penghu University, Taiwan

Dr. Lih-Chyau Wu, National Yunlin University of Science and Technology, Taiwan

A08-01 【IIH-MSP-2009-IS05-01】

A Semi-fragile Reversible Data Hiding by Coefficient-Bias Algorithm

Ching-Yu Yang, Wu-Chih Hu, Po-Yen Chang, and Chang-Min Hwang
National Penghu University, Taiwan, R.O.C.

A08-02 【IIH-MSP-2009-IS05-02】

3D Triangular Mesh Watermarking for Copyright Protection Using Moment-Preserving

Chen-Tsung Kuo, Da-Chun Wu, and Shyi-Chyi Cheng
National Kaohsiung First University of Science and Technology, Taiwan, R.O.C.

A08-03 【IIH-MSP-2009-421】

Color Image Watermarking Scheme Based on Support Vector Regression

Xiuli Lv, Hongyu Bian, Bo Yu, and Xinghui Quan
Harbin Engineering University, China.

A08-04 【IIH-MSP-2009-517】

Digital Watermarking Method for Printed Materials Embedding in Hue Component

Yuta Goto and Osamu Uchida
Engineering Tokai University Hiratsuka, Japan.

A08-05 【IIH-MSP-2009-236】

Employing Optimal Matrix for Efficient Matrix Embedding

Yunkai Gao, Xiaolong Li, and Bin Yang
Peking University, China.

A08-06 【IIH-MSP-2009-66】

Optimizing Constrained Mixed-Integer Nonlinear Programming Problems Using Nature Selection

Rong-Song He
Wu-Feng Institute of Technology, Taiwan, R.O.C.

A08-07 【IIH-MSP-2009-401】

A Novel Secure RFID System to Ensure Privacy

Cagatay Karabat

National Research Institute of Electronics and Cryptology, Europe.

A08-08 【IIH-MSP-2009-464】

Target Tracking in Clusters of Sensor Networks via Handoff Scheme with Extended Kalman filter

Luke K. Wang, Shan-Chin Hsieh, Kou-Yuan Huang, and Chien-Chang Wu

National Kaohsiung University of Applied Sciences, Taiwan, R.O.C.

Session A09 : Advances in Biometrics(I)

Session Chairs:

Dr. Christoph Busch, Gjøvik University College, Norway

Dr. Stephen D. Wolthusen, Gjøvik University College, Norway

Dr. Xiamu Niu, Harbin Institute of Technology, China

Dr. Xuebing Zhou, Fraunhofer Institute IGD, Germany

A09-01 【IIH-MSP-2009-IS33-01】

Experiments with Optical Liveness Testing Method

Martin Drahanský and Dana Lodrová

Brno University of Technology, Czech Republic.

A09-02 【IIH-MSP-2009-IS33-02】

Template Protection via Piecewise Hashing

Claudia Nickel, Christoph Busch, and Xuebing Zhou

Hochschule Darmstadt, Germany.

A09-03 【IIH-MSP-2009-IS33-03】

Feature Correlation Attack on Biometric Privacy Protection Schemes

Xuebing Zhou, Stephen D. Wolthusen, Christoph Busch, and Arjan Kuijper

Fraunhofer Institute for Computer Graphics Research IGD, Germany.

A09-04 【IIH-MSP-2009-IS33-04】

The Altinn Case Study : Proposal for a Large-Scale Public-Key Biometric Infrastructure

Bendik B. Mjåaland, Danilo Gligoroski, and Svein J. Knapskog

Norwegian University of Science and Technology (NTNU), Norway.

A09-05 【IIH-MSP-2009-IS33-05】

A Login System Using Mouse Dynamics

Patrick Bours and Christopher Johnsrud Fullu

Gjøvik University, Norway.

A09-06 【IIH-MSP-2009-320】

A Video Retrieval Algorithm Based on Spatio-temporal Feature Curves and Key Frames

Xiuxin Chen, Kebin Jia, and Zhipin Deng
Beijing University of Technology, China.

A09-07 【IIH-MSP-2009-405】

A Cancelable Biometric Hashing For Secure Biometric Verification System

Cagatay Karabat and Hakan Erdogan.

National Research Institute of Electronics and Cryptology, Europe.

A09-08 【IIH-MSP-2009-433】

Blind Clustering of Music Recordings Based on Audio Fingerprinting

Wei-Ho Tsai and Wei-Che Hsieh

National Taipei University of Technology, Taiwan, R.O.C.

Session A10 : Circuit Techniques for Multimedia Signal

Processing

Session Chairs:

Dr. Roger Yubtzuan Chen, Yunlin University of Science & Technology, Taiwan

Dr. Ming-Hwa Sheu, Yunlin University of Science & Technology, Taiwan

A10-01 【IIH-MSP-2009-IS12-01】

Image Object Detection and Tracking Implementation for Outdoor Scenes on an Embedded Soc Platform

Wen-kai Tsai, Ming-hwa Sheu, Ching-lung Su, Jun-jie Lin, and Shau-Yin Tseng
National Yunlin University of Science & Technology, Taiwan, R.O.C.

A10-02 【IIH-MSP-2009-IS12-02】

Implementation and ESL Verification of New Earliest-Deadline-First Scheduler for Video Streaming over Wireless Networks

Chao-Lieh Chen and Chien-Hao Lai
National Kaohsiung First University of Science and Technology, Taiwan, R.O.C.

A10-03 【IIH-MSP-2009-IS12-03】

An Implementation of Frame Rate Control for Reducing Flicker in CSTN Panel

Ya-Hsin Hsueh, and Wei-Da Chen
National Yunlin University of Science and Technology, Taiwan, R.O.C

A10-04 【IIH-MSP-2009-IS12-04】

A Novel Vehicle Brake Light System

Yang-Chiuan Lin, Hung-Yu Wang, and Wei-Jeng Cheng
National Kaohsiung University of Applied Science, Taiwan, R.O.C.

A10-05 【IIH-MSP-2009-IS12-05】

A CMOS Variable-gain Fully-differential Transimpedance Amplifier for Multimedia Data Links

Roger Yubtzuan Chen and Ming-Jen Chang
National Yunlin University of Science and Technology, Taiwan, R.O.C.

A10-06 【IIH-MSP-2009-IS12-06】

System Performance Analyses on PAC Duo ESL Virtual Platform

Zhe-Mao Hsu, I-Yao Chuang, Wen-Chien Su, Jen-Chieh Yeh, Jen-Kuei Yang, and
Shau-Yin Tseng

SoC Technology Center Industrial Technology Research Institute, Taiwan, R.O.C.

A10-07 【IIH-MSP-2009-556】

Association and Abstraction on Neural Circuit Loop and Coding

Shinichi Tamura, Yuko Mizuno-Matsumoto, Yen-Wei Chen, and Kazuki Nakamura
International Technovators Institute, NBL Co., Ltd , Japan.

Session A11 : Multimedia in Ubiquitous Computing and

Application Services(II)

Session Chairs:

**Dr. Chin-Feng Lee, Chaoyang University of Technology,
Taiwan**

Dr. Antonio Savoldi, University of Brescia, Italy

Dr. Paolo Gubian, University of Brescia, Italy

A11-01 【IIH-MSP-2009-IS10-06】

A Fast Image Retrieval Method Using Multi-Feature Dimension Technique

Kuo Lung Hung and Yih Cheng Tsay

Chaoyang University of Technology, Taiwan, R.O.C.

A11-02 【IIH-MSP-2009-IS10-07】

Secret Sharing Method for Gray-level Images

Hao-Kuan Tso, Der-Chyuan Lou, Dah-Lih Jeng, and Chao-Lung Chou

Army Academy, Taiwan, R.O.C.

A11-03 【IIH-MSP-2009-IS10-08】

A Novel Retinal Blood Vessel Segmentation Method Based on Line Operator and Edge Detector

Chin-Chen Chan, Chia-Chen Lin, Pei-Yan Pai, and Yen-Chang Chen

DFeng Chia University, Taiwan, R.O.C.

A11-04 【IIH-MSP-2009-IS10-09】

Mining Sequential Patterns for Image Classification in Ubiquitous Multimedia Systems

Ming-Yen Lin, Sue-Chen Hsueh, Ming-Hong Chen, and Hong-Yang Hsu

Feng Chia University, Taiwan, R.O.C.

A11-05 【IIH-MSP-2009-323】

Salt-and-Pepper Noise Elimination by PI-Remover and Modified AMF Noise Detectors

Li-Chun Liao, Shin-Jung Gu, and Bin-Chyi Tseng

Chaoyang University of Technology, Taiwan, R.O.C.

A11-06 【IIH-MSP-2009-644】

H.264/AVC-Based Depth Map Sequence Coding Using Improved Loop-filter

Siwei Ma and Nan Zhang

School of Biomedical Engineering Capital Medical University Beijing, China

A11-07 【IIH-MSP-2009-828】

Shape-Based Depth Map Coding

Nan Zhang, Siwei Ma, and Wen Gao

School of Electronics and Computer Science Peking University Beijing, China

A11-08 【IIH-MSP-2009-IS19-02】

A Comparison between Windows Mobile and Symbian S60 Embedded Forensics

Antonio Savoldi, Paolo Gubian, and Isao Echizen

University of Brescia, Italy.

Session A12 : Ubiquitous Multimedia Services and Applications for Residential Users(II)

Session Chairs:

Dr. Chien-Chou Lin National Yunlin University of Science and Technology, Taiwan

Dr. Mong-Fong Horng, National Kaohsiung University of Applied Sciences, Taiwan

Dr. Chin-Shiuh Shieh, National Kaohsiung University of Applied Sciences, Taiwan

A12-01 【IIH-MSP-2009-IS27-10】

An Adaptive Approach Based on Genetic Algorithm to Information Hiding for Halftone Images

Yi-Ting Chen, Shu-Chuan Chu, Mong-Fong Horng, and Jeng-Shyang Pan
Kaohsiung University of Applied Science, Taiwan, R.O.C.

A12-02 【IIH-MSP-2009-IS27-13】

Interactive Voice-Controller Applied to Home Automation

Jinn-Kwei Guo, Chun-Lin Lu, Ju-Yun Chang, Yi-Jing Li, Ya-Chi Huang, Fu-Jiun Lu, and Ching-Wen Hsu
Kun Shan University, Taiwan.

A12-03 【IIH-MSP-2009-IS27-14】

Complex Wavelet-based Face Recognition Using Independent Component Analysis

Zhi Chai, Kai-Kuang Ma, and Zhengguang Liu
Tianjin University, China.

A12-04 【IIH-MSP-2009-IS27-15】

Similarity-Based Watermarking for Sub-Sampling Images with Bacterial Foraging Techniques

Hsiang-Cheh Huang and Feng-Cheng Chang
National University of Kaohsiung, Kaohsiung, Taiwan, R.O.C.

A12-05 【IIH-MSP-2009-IS27-17】

Adaptive Multicast Routing Protocol for Wireless Mobile Ad Hoc Networks

Wei Kuang Lai, Mu-Lung Weng, Chien-Hua Lin, and Chin-Shiuh Shieh

National Sun Yat-sen University, Taiwan, R.O.C.

A12-06 【IIH-MSP-2009-623】

An Efficient Architecture for Deblocking Filter in H.264/AVC

He Jinm, Huang Yan, and Xu Xinyu

University of China, China.

A12-07 【IIH-MSP-2009-790】

A 13.75 ns Holographic Reconfiguration of an Optically Differential Reconfigurable Gate Array

Mao Nakajima and Minoru Watanabe

Electrical and Electronic Engineering Shizuoka University, Japan.

Session A13 : Advanced Multimedia Processing and Retrievals

Session Chairs:

Dr. Hiromitsu Hama, Osaka City University, Japan

Dr. Takashi Toriu, Osaka City University, Japan

A13-01 【IIH-MSP-2009-IS06-01】

An Attention Focusing Tree based on Saliency and a Display Method for Small Displays

Kenji Nakamura, Takashi Toriu, Shigeyoshi Nakajima, and Hiromitsu Hama
Osaka City University, Japan.

A13-02 【IIH-MSP-2009-IS06-02】

Collision Detection of 4-legged Robots Using Acceleration Sensors

Shigeyoshi Nakajima, Kana Sugimoto, and Takashi Toriu
Osaka City University, Japan.

A13-03 【IIH-MSP-2009-IS06-03】

Three-dimensional Circular Camera System for the Three-dimensional Display Based on the Reconstruction of Parallax Rays

Shuhe Miyatake, Hideya Takahashi, and Kenji Yamada
Osaka City University, Japan.

A13-04 【IIH-MSP-2009-IS06-04】

Detection of Tire-Road Contact Point for Vehicle Position Estimate Considering Shape Distortion in a Circular Fisheye Image

Kenichi Hirose, Takashi Toriu, and Hiromitsu Hama
College of Industrial Technology, Japan.

A13-05 【IIH-MSP-2009-IS06-05】

Optimal Crawling Strategies for Multimedia Search Engines

Hiromitsu Hama, Thi Thi Zin, and Pyke Tin
Osaka City University, Japan.

A13-06 【IIH-MSP-2009-IS06-06】

Dominant Color Embedded Markov Chain Model for Object Image Retrieval

Thi Thi Zin, Pyke Tin, Takashi Toriu, and Hiromitsu Hama
Osaka City University, Japan.

A13-07 【IIH-MSP-2009-461】

Mobile Sensor for Target Tracking via Modified Particle Filter

Luke K. Wang, Shan-Chin Hsieh, Kou-Yuan Huang, and Wen-Cheng Chen
National Kaohsiung University of Applied Sciences, Taiwan, R.O.C.

A13-08 【IIH-MSP-2009-480】

A Region of Interest Rate-Control Scheme for Encoding Traffic Surveillance Videos

Ching-Yu Wu and Po-Chyi Su
National Central University, Taiwan, R.O.C.

Session A14 : Advances in Biometrics(II)

Session Chairs:

Dr. Christoph Busch, Gjøvik University College, Norway

Dr. Stephen D. Wolthusen, Gjøvik University College, Norway

Dr. Xiamu Niu, Harbin Institute of Technology, China

Dr. Xuebing Zhou, Fraunhofer Institute IGD, Germany

A14-01 【IIH-MSP-2009-IS33-06】

Why Vein Recognition Needs Privacy Protection

Daniel Hartung and Christoph Busch

Gjøvik University College, Norwegian Information Security Laboratory (NISlab)

A14-02 【IIH-MSP-2009-IS33-07】

An Approach to Biometric Identity Management Using Low-Cost Equipment

Robert Mueller and Raul Sanchez-Reillo

Giesecke & Devrient GmbH Prinzregentenstr., Germany.

A14-03 【IIH-MSP-2009-IS33-08】

Template Protection for Multimodal Biometric System

Zhifang Wang, Qi Han, Xiamu Niu, and Christoph Busch

Harbin Institute of Technology, China

A14-04 【IIH-MSP-2009-IS33-09】

Non-Forensic Odontological Biometrics

Stephen D. Wolthusen and Christoph Busch

Gjøvik University College N-2818 Gjøvik, Norway.

A14-05 【IIH-MSP-2009-484】

Mean Best Basis Algorithm for Wavelet Speech Parameterization

Jakub Galka and Mariusz Ziólko

AGH University of Science and Technology, Poland.

A14-06 【IIH-MSP-2009-499】

A Steganalysis Algorithm Based on Denoising of Source Image Using ICA and SVM

Javad RavanJamjah, Soodeh Bakhshandeh, and Bahram ZahirAzami

University of Kurdistan, Iran.

A14-07 【IIH-MSP-2009-752】

An Investigation of Genetic Algorithm on Steganalysis Techniques

Xiao Yi Yu and Aiming Wang

Anyang Normal University, China.

A14-08 【IIH-MSP-2009-843】

The Effects of Ambient Sounds on the Quality of 3D Virtual Sound Space

Satoshi Yairi, Yukio Iwaya, Maori Kobayashi, Makoto Otani, Yôiti Suzuki, and

Takeru Chiba

Tohoku University, Japan.

Session A15 : Recent Technologies and Applications of

Audio Data Hiding

Session Chairs:

**Dr. Akira Nishimura, Tokyo University of Information Sciences,
Japan**

Dr. Naofumi Aoki, Hokkaido University, Japan

A15-01 【IIH-MSP-2009-IS17-02】

Data Hiding in Pitch Delay Data of the Adaptive Multi-Rate Narrow-band Speech Codec

Akira Nishimura

Tokyo University of Information Sciences, Japan.

A15-02 【IIH-MSP-2009-IS17-03】

Improvement of a Band Extension Technique for G.711 Telephony Speech by Using Steganography

Naofumi Aoki

Hokkaido University, Japan.

A15-03 【IIH-MSP-2009-IS17-04】

A Band Extension of G.711 Speech with Low Computational Cost for Data Hiding Application

Akinori Ito, Hironori Handa, and Yôiti Suzuki

Tohoku University, Japan.

A15-04 【IIH-MSP-2009-IS17-05】

Data Hiding is a Better Way for Transmitting Side Information for MP3 Bitstream

Akinori Ito and Shozo Makino

Tohoku University, Japan.

A15-05 【IIH-MSP-2009-IS17-06】

Spatial and Temporal Position Information Delivery to Mobile Terminals Using Audio Watermarking Techniques

Toshio Modegi

Media Technology Research Center, Dai Nippon Printing Co., Ltd., Japan.

A15-06 【IIH-MSP-2009-45】

Chinese Name Speech Classification Using Fisher Score Based on Continuous Density Hidden Markov Models

Yi Gao, John Han, Lei Lin, Congde Lu, and Qin Yang

DSP Team, Motorola (China) Electronics Ltd. Chengdu 2nd Branch, China

A15-07 【IIH-MSP-2009-489】

Personal Photo Organizer based on Automated Annotation Framework

Kai-En Tsay, Yi-Leh Wu, Maw-Kae Hor, and Cheng-Yuan Tang

National Taiwan University of Science and Technology, Taiwan, R.O.C.

A15-08 【IIH-MSP-2009-526】

Volume Image Segmentaton by Dual Multi-Scale Morphological Reconstructions

Jiann-Jone Chen and Chun-Rong Su

National Taiwan University of Science and Technology, Taiwan, R.O.C.

Session B01 : Coding and Protocols in Security and Applications

Session Chairs:

Dr. Shiu-Jeng Wang, Central Police University, Taiwan

B01-01 【IIH-MSP-2009-IS28-01】

Fast Deployment of Botnet Detection with Traffic Monitoring

Chung-Huang Yang and Kuang-Li Ting

Nation Kaohsiung Normal University, Taiwan, R.O.C.

B01-02 【IIH-MSP-2009-IS28-02】

Adaptation of Agent-based Non-Repudiation Protocol to Mobile DRM

Chung-Ming Ou and C.R. Ou

Kainan University, Taiwan, R.O.C.

B01-03 【IIH-MSP-2009-IS28-03】

A Hybrid RFID Protocol against Tracking Attacks

Jen-Chun Chang and Hsin-Lung Wu

National Taipei University, Taiwan, R.O.C.

B01-04 【IIH-MSP-2009-IS28-04】

User Friendly Digital Rights Management System Based on Smart Cards

Narn-Yih Lee and Tzu-Yi Lee

Southern Taiwan University Tainan County, Taiwan, R.O.C.

B01-05 【IIH-MSP-2009-IS28-05】

TLMS: A Novel DRM Scheme for Multimedia Sharing in P2P Networks

Wei-Chen Wu and Yi-Ming Chen

National Central University, Taiwan, R.O.C.

B01-06 【IIH-MSP-2009-IS28-06】

Medical Video Encryption Based on H.264/AVC with Near-Lossless Compression

Tzung-Her Chen, Yan-Ting Wu, and Yue-Rong Lin

National Chiayi University, Taiwan, R.O.C.

B01-07 【IIH-MSP-2009-IS28-07】

***Determinants of Satisfaction and Intention of Use Self-service Technology –
Technology Readiness and Computer Self-efficacy***

Chien-Lung Chan and Chia-Li Lin
Yuan Ze University, Taiwan, R.O.C.

B01-08 【IIH-MSP-2009-IS28-08】

Novel Efficient Electronic Voting Mechanism Based upon Elliptic Curve

Yu-Wei Lai, Chin-Chen Chang, and Shih-Chang Chang
National Chung Cheng University, Taiwan, R.O.C.

B01-09 【IIH-MSP-2009-IS28-09】

***Cryptanalysis and Improvement of a Secure Authentication Scheme with
Anonymity for Wireless Communications***

Chin-Chen Chan , Chia-Yin Lee, and Wei-Bin Lee
Feng Chia University, Taiwan, R.O.C.

Session B02 : Intelligent Image and Signal Processing

Session Chairs:

Dr. Wen-Yuan Chen, Chin-Yi University of Technology, Taiwan

B02-01 【IIH-MSP-2009-IS18-01】

Extension Neural Network Approach to Classification of Brain MRI

Chuin-Mu Wang, Ming-Ju Wu, Jian-Hong Chen, Cheng-Yi Yu

National Chin-Yi Institute of Technology, Taiwan, R.O.C

B02-02 【IIH-MSP-2009-IS18-02】

Applying Visual Image and Satellite Positioning for Fast Vehicle Detection and Lane Marking Recognition

Bao Rong Chang and Hsiu Fen Tsai

National University of Kaohsiung, Taiwan, R.O.C.

B02-03 【IIH-MSP-2009-IS18-03】

Image Hidden Technique Using QR-Barcode

Chin-Ho Chung, Wen-Yuan Chen, Ching-Ming Tu

Ta Hwa Institute of Technology, Taiwan, R.O.C.

B02-04 【IIH-MSP-2009-IS18-04】

Design of a System with a Multielement Thermopile for Monitoring the Temperature of Indoor Objects

Lung-Tsai Li, Chin-Fu Tsai, and Ming-Shing Young

National Chen-Kung University, Taiwan, R.O.C.

B02-05 【IIH-MSP-2009-IS18-05】

Implementation of Thermistor Linearization Using LabVIEW

Chin-Fu Tsai, Lung-Tsai Li, Chin-Hao Li, and Ming-Shing Young

National Chin-Yi University of Technology, Taiwan, R.O.C

B02-06 【IIH-MSP-2009-IS18-06】

Design High-Performance and Low-Power Adder Cores with Full-Swing Nodes for Embedded Systems

Ching -Hwa Cheng, Chiou-Kou Tung, Shao-Hui Shieh, and Yu-Cherng Hung

Feng Chia University, Taiwan, R.O.C.

B02-07 【IIH-MSP-2009-IS18-07】

High-Speed CMOS Chip Design for Manchester and Miller Encoder

Yu-Cherng Hung, Min-Ming Kuo, Chiou-Kou Tung, and Shao-Hui Shieh
National Chinyi University of Technology, Taiwan, R.O.C.

B02-08 【IIH-MSP-2009-241】

A New Contrast Enhancement Technique Implemented on FPGA for Real Time Image Processing

Ching-Hsi Lu, Hong-Yang Hsu, and Lei Wang
Feng Chia University, Taiwan, R.O.C.

**Session B03 : Intelligent Document Processing and
Management Systems**

Session Chairs:

Dr. Jiann-Gwo Doong, China University of Technology, Taiwan

B03-01 【IIH-MSP-2009-IS20-01】

Adapting e-TOM Model to Improve Multimedia Network Management – A Case Study with a Taiwan Multimedia Service Provider

Dominic Wong

Fo Guang University, Taiwan, R.O.C

B03-02 【IIH-MSP-2009-IS20-02】

A Fast Text-based Communication System for Handicapped Aphasiacs

Yu-Fen Fu, and Cheng-Seen Ho

National Taiwan University of Science and Technology, Taiwan, R.O.C.

B03-03 【IIH-MSP-2009-IS20-03】

Document Filing Approaches Using an Internal Based Folder Organization

Jiann-Gwo Doong,

China University of Technology, Taiwan, R.O.C.

B03-04 【IIH-MSP-2009-111】

Fast Algorithm for Decoding the Binary (23, 12, 7) Quadratic Residue Code

Hung-Peng Lee and Kunta Hsiesh

Institute of Technology, Taiwan, R.O.C.

B03-05 【IIH-MSP-2009-266】

Identity Authentication in RFID Based Logistics-Customs Clearance Service Platform

Huifang Deng and Wen Deng

South China University of Technology, China.

B03-06 【IIH-MSP-2009-411】

A Multilingual Patent Text-Mining Approach for Computing Relatedness Evaluation of Patent Documents

Chung-Hong Lee, Hsin-Chang Yang, Chih-Hong Wu, and Yi-Ju Li

National Kaohsiung University of Applied Sciences, Taiwan, R.O.C.

B03-07 【IIH-MSP-2009-600】

Exploring AUC Boosting Approach in Multimodal Biometrics Score Level Fusion

Mehdi Parviz and M. Shahram Moin

Iran Telecommunication Research Center, Iran.

B03-08 【IIH-MSP-2009-552】

Orthogonal functional expansion method of optical flow for large displacement

Jinwoo Kim, Robert Close, Hisashi Taketani, Rong-Long Wang, Kozo Okazaki, and Shinichi Tamura

Fukui University, Japan.

Session B04 : Protection and Authentication for Multimedia

Information

Session Chairs:

Dr. Chih-Hung Lin, Southern Taiwan University, Taiwan

Dr. Yu-Chiang Li, Southern Taiwan University, Taiwan

B04-01 【IIH-MSP-2009-IS21-01】

Palette Partition Based Data Hiding for Color Images

Yu-Chiang Li, Piyu Tsai, Chih-Hung Lin, Hsiu-Lien Yeh, and Chien-Ting Huang
Southern Taiwan University, Taiwan, R.O.C

B04-02 【IIH-MSP-2009-IS21-02】

A Simple and Efficient Data Hiding Scheme Suitable for Low Power Computation Environments

Chin-Chen Chang, Yung-Chen Chou, and Ming-Huang Hsieh
Feng Chia University Taichung, Taiwan, R.O.C.

B04-03 【IIH-MSP-2009-IS21-03】

A New Approach to Image Authentication Using Chaotic Map and Sudoku Puzzle

Wen-Chuan Wu and Guang-Ruei Ren
Aletheia University, R.O.C.

B04-04 【IIH-MSP-2009-IS21-04】

Data Concealment Scheme for HTML Documents Based on Color Code

Chin-Feng Lee and Hsing-Ling Chen
Chaoyang University of Technology, Taiwan, R.O.C.

B04-05 【IIH-MSP-2009-IS21-05】

Multipurpose Watermarking Method Based on Blind Vector Quantization

Chih-Hung Lin, Yu-Chiang Li, Ming-Ni Wu, Shun-Sheng Yang, and Kuan-Ju Chen
Southern Taiwan University, Taiwan, R.O.C.

B04-06 【IIH-MSP-2009-42】

Automatic Traffic Monitoring Method Based on Cellular Model

Wei-Lieh Hsu, Chang-Lung Tsai, Po-Lun Chang
Lunghwa University Science and Technology, Taiwan, R.O.C.

B04-07 【IIH-MSP-2009-174】

Perfect Forward Secure Two-Party Key Agreement Protocol with Key Escrow

Mengbo Hou, Qiuliang Xu, and Tao Ban

Shandong University, China.

B04-08 【IIH-MSP-2009-192】

Advanced Color Images Enhancement Using Wavelet and K-means Clustering

Hassana Grema Kaganami, Zou Beiji, and M. Sami Soliman

Central South University Changsha, China.

Session B05 : Behavior Analysis and Abnormal Event

Detection

Session Chairs:

Dr. Jun-Wei Hsieh, Yuan-Ze University, Taiwan

Dr. Duan-Yu Chen, Yuan-Ze University, Taiwan

Dr. Mark Hong-Yuan Liao, Academia Sinica, Taiwan

B05-01 【IIH-MSP-2009-IS22-01】

A Novel Viewer Counter for Digital Billboards

Duan-Yu Chen and Kuan-Yi Lin

Yuan Ze University, Taiwan, R.O.C.

B05-02 【IIH-MSP-2009-IS22-02】

Vehicle Retrieval Using Eigen Color and Multiple Instance Learning

Shin-Yu Chen, Jun-Wei Hsieh, Jui-Chen Wu, and Yung-Sheng Chen

Yuan Ze University, Taiwan, R.O.C.

B05-03 【IIH-MSP-2009-IS22-03】

Towards Efficient Copy Detection for Digital Videos by Using Spatial and Temporal Features

Chung-Chi Tsai, Chin-Song Wu, Ching-Yu Wu, and Po-Chyi Su

National Central University, Taiwan, R.O.C.

B05-04 【IIH-MSP-2009-IS22-04】

Driving Situations Understanding through Content Rhythm Analysis

Yu-Dun Lin, Wen-Yu Tseng, Cheng-Jie Hsum, and Chia-Hung Yeh

National Sun Yat-Sen University, Taiwan, R.O.C.

B05-05 【IIH-MSP-2009-IS22-05】

Ear Detection Based on Arc-Masking Extraction and AdaBoost Polling Verification

Hao-Chung Shih, Chian C. Ho, Hsuan T. Chang, and Chin-Song Wu

National Yunlin University of Science and Technology Douliou, Taiwan, R.O.C.

B05-06 【IIH-MSP-2009-IS22-06】

Face Recognition Based on Complementary Matching of Single Image and Sequential Images

Yea-Shuan Huang and Wei-Cheng Liu
Chung Hua University, Taiwan, R.O.C.

B05-07 【IIH-MSP-2009-348】

Precision Segmentation Rendering for 3-D Coronary Angiography Medical Image

Tsair-Fwu Lee, Chang-Yu Lee, Pei-Ju Chao, and Chang-Yu Wang

National Kaohsiung University of Applied Sciences, Taiwan, R.O.C

B05-08 【IIH-MSP-2009-659】

Image Retrieval in Multimedia Databases: A Survey

Yihun Alemu, Jong-bin Koh, Muhammed Ikram, and Dong-Kyoo Kim

Ajou University, South Korea.

Session B06 : Intelligent Watermarking Techniques, Image

Authentication and Visual Cryptography(I)

Session Chairs:

Dr. Chia-Chen Lin, Providence University, Taiwan

B06-01 【IIH-MSP-2009-IS11-01】

Reversible Steganography for VQ Indices Using the Modified State Codebook

Chin-Chen Chang, Chi-Shiang Chan, Zhi-Hui Wang, and Ming-Chu Li
Feng Chia University Taichung, Taiwan, R.O.C.

B06-02 【IIH-MSP-2009-IS11-02】

Sharing Secrets and Reversibly Reconstructing the Cover Image Using Two Meaningful Shadows

The Duc Kieu, Chin-Chen Chang, Zhi-Hui Wang, and Ming-Chu Li
Feng Chia University Taichung, Taiwan, R.O.C.

B06-03 【IIH-MSP-2009-IS11-03】

Matrix Selection in High Payload Embedding

Zhenxing Qian, Xinpeng Zhang, and Shuozhong Wang
Shanghai University, China

B06-04 【IIH-MSP-2009-IS11-04】

Enlargement of Balanced-Incomplete-Block-Designs-Based Watermarks

Zhi-Fang Yang, Po-Chen Lee, Wei-Hung Chen, and Jia-Guu Leu
National Taipei University, Taiwan, R.O.C.

B06-05 【IIH-MSP-2009-IS11-05】

Security of Indirect-authenticated Key Exchange Protocol

Hsu-Hung Chiang, Ching-Chung Liu, Ying-Ming Chen, and Ya-Fen Chang
National Taichung Institute of Technology, Taiwan, R.O.C.

B06-06 【IIH-MSP-2009-IS11-06】

A Video Watermarking in H.264/AVC Encoder

Shinfeng D. Lin, Chih-Yao Chuang, and Hsiang-Cheng Meng
National Dong Hwa University, Taiwan, R.O.C.

B06-07 【IIH-MSP-2009-546】

Electrical Impedance Tomography for Washing out Underground Pollution

Kazuyo Yoneda, Shinichi Tamura, Yoshinori Nishino, Kazuki Nakamura, Takio Shimosakon, Kyohei Shimada, Rong Long Wan, and Kozo Okazaki
NBL Co., Ltd., Japan.

B06-08 【IIH-MSP-2009-578】

Improved EMD Steganography with Great Embedding Rate and High Embedding Efficiency

Qu Zhiguo, Fu Yu, Niu Xinxin, Yang Yixian, Zhang Ru
Information Security Center, State Key Laboratory of Networking and Switching Technology, China.

Session B07 : Digital Archives and Digital Heritages(I)

Session Chairs:

Dr. Kozaburo Hachimura, Ritsumeikan University, Japan

B07-01 【IIH-MSP-2009-IS34-01】

Construction of Ancient-Modern Word Dictionary from Parallel Corpus of Ancient Writings and Their Translations in Modern Language

Fuminori Kimura and Akira Maeda

Ritsumeikan University, Japan.

B07-02 【IIH-MSP-2009-IS34-02】

A Framework for Design and Evaluation of Digital Museums in Second Life as Learning Institutions

Kingkarn Sookhanaphibarn and Ruck Thawonmas

Ritsumeikan University, Japan.

B07-03 【IIH-MSP-2009-IS34-03】

Comparison of User Trajectories Based on Coordinate Data and State Transitions

Junichi Oda, Ruck Thawonmas, and Kuan-Ta Chen

Ritsumeikan University, Japan.

B07-04 【IIH-MSP-2009-IS34-04】

Automatic Modeling of Virtual 3D Streets Based on GIS Data - Application to Generation of Kyoto in the Edo Era -

Masakazu Sawai, Yuzuru Isoda, Akihiro Tsukamoto, Yoshihiro Kosaka, Kyoko Hasegawa, Susumu Nakata, and Satoshi Tanaka

Ritsumeikan University, Japan.

B07-05 【IIH-MSP-2009-IS34-05】

A Retrieval System for Ballet Steps using Three-dimensional Motion Data

Tsuyoshi Matsuoka, Asako Soga, and Kazuhiro Fujita

Ryukoku University, Japan.

B07-06 【IIH-MSP-2009-IS34-06】

A Method of Managing Distributed Contents in Heterogeneous Servers

Masahito Shiba

Ryukoku University, Japan.

B07-07 【IIH-MSP-2009-619】

A Pair-wise Key Establishment for Wireless Sensor Networks

Hung-Min Sun, Cheng-Ta Yang, Yue-Hsun Lin, and Mu-En Wu
National Tsing Hua University, Taiwan, R.O.C.

B07-08 【IIH-MSP-2009-703】

A Fast Audio Retrieval Method Based on Negativity Judgment

Zheng Guibin, Li Miao, Han Jiqing, and Zheng Tieran
Harbin Institute of Technology, China.

Session B08 : Human Information Processing and Its Applications

Session Chairs:

Dr. Itaru Nagayama, University of the Ryukyus, Japan

Dr. Yasue Mitsukura, Tokyo University of Agriculture and Technology, Japan

B08-01 【IIH-MSP-2009-IS25-01】

Unskilled User Support for Network Operation Based on Service Composition Using Web Ontology Languages

Yoshihiro Nakamura

College of Industrial Technology Nihon University, Japan.

B08-02 【IIH-MSP-2009-IS25-02】

An Analysis of the Influence of Facial Feature for Apparent Age Estimation

Hironori Takimoto, Hironobu Fukai, Yasue Mitsukura, and Minoru Fukumi

National College of Technology, Japan.

B08-03 【IIH-MSP-2009-IS25-03】

A Method for Evaluating the Degree of Human's Preference Based on EEG Analysis

Tsukasa Nakamura, Shin-ichi Ito, Yasue Mitsukura, and Hiroto Setokawa

Tokyo University of Agriculture and Technology, Japan.

B08-04 【IIH-MSP-2009-IS25-04】

A Method for Automatic Detection of Crimes for Public Security by Using Motion Analysis

Koichiro Goya, Xiaoxue Zhang, Kouki Kitayama, and Itaru Nagayama

University of the Ryukyus, Japan.

B08-05 【IIH-MSP-2009-IS25-05】

A High Speed Mixel Estimation Method by Using the Genetic Algorithm

Seiji Ito and Yoshinari Oguro

Hiroshima Institute of Technology, Japan.

B08-06 【IIH-MSP-2009-IS25-06】

An Important Facial Parts Analysis for Evaluating the Impression – Difference by Gender

Seiki Yoshimori, Hironori Takimoto, Yasue Mitsukura, and Minoru Fukumi
Nippon Bunri University, Japan.

B08-07 【IIH-MSP-2009-75】

Further Remarks on Identity-based RSA Multi-signature

Ya-Fen Chang, Yen-Cheng Lai, and Mu-Yen Chen
National Taichung Institute of Technology, Taiwan, R.O.C

B08-08 【IIH-MSP-2009-87】

A ± 1 -Based Steganography by Minimizing the Distortion of First Order Statistics

Yifeng Lu, Xiaolong Li, and Bin Yang
Peking University, China.

Session B09 : Statistical Image Processing and Application

Session Chairs:

Dr. Xiangwei Kong, Dalian University of Technology, China

B09-01 【IIH-MSP-2009-IS23-01】

Robust Tracking Based on PSO and On-line AdaBoost

Huchuan Lu, Wenling Zhang, Fan Yang, and Xiaojing Wang

Dalian University of Technology, China.

B09-02 【IIH-MSP-2009-IS23-02】

Visual search based on contour salient

Haiyan Fu, Xiangwei Kong, Shijie Jia, and Yanqing Guo

Dalian University of Technology, China.

B09-03 【IIH-MSP-2009-IS23-03】

The Parallelization Design of Chaotic Encryption System Based on Mult-level Shuffle-Exchange Network

Ding Nan, Ma Honglian, and Tan Guozhen

Dalian University of Technology, China.

B09-04 【IIH-MSP-2009-IS23-04】

Source Camera Identification Forensics Based on Wavelet Features

Bo Wang, Yiping Guo, Xiangwei Kong, and Fanjie Meng

Dalian University of Technology, China.

B09-05 【IIH-MSP-2009-IS23-05】

SIFT-Based Image Retrieval Combining the Distance Measure of Global Image and Sub-Image

Bin Li, Xiangwei Kong, Zhe Wang, and Haiyan Fu

Dalian University of Technology, China.

B09-06 【IIH-MSP-2009-IS23-06】

Level Set-Based Semiautomatic Bolus Segmentation in Bolus-Chasing CTA

Ying Hou and Yi Sun

Dalian University of Technology, China.

B09-07 【IIH-MSP-2009-IS23-07】

Fairness Analysis of Electronic Commerce Protocol Based on Strand Space

Wenqi Liu, Jianhua Yang, and Zhixin Li

Dalian University of Technology, China.

B09-08 【IIH-MSP-2009-514】

Indexing and Querying in Multimedia Databases

Hung-Yi Lin and Shih-Ying Chen

National Taichung Institute of Technology Taiwan, R.O.C.

Session B10 : Image Processing and VLSI Implementation

Session Chairs:

Dr. Yohei Fukumizu, Ritsumeikan University, Japan

B10-01 【IIH-MSP-2009-IS39-01】

Parallel Implementation of Good Feature Extraction for Tracking on the Cell Processor with OpenCV Interface

Hiroki Sugano and Ryusuke Miyamoto
Kyoto University, Japan.

B10-02 【IIH-MSP-2009-IS39-02】

Hardware Architecture for HOG Feature Extraction

Ryoji Kadota, Hiroki Sugano, Masayuki Hiromoto, Hiroyuki Ochi, Ryusuke Miyamoto, and Yukihiro Nakamura
Kyoto University, Japan.

B10-03 【IIH-MSP-2009-IS39-03】

A FPGA-Based Real-Time Hardware Accelerator for Orientation Calculation Part in SIFT

Jingbang Qiu, Ying Lu, Tianci Huang, and Takeshi Ikenaga
WASEDA Univ, Japan.

B10-04 【IIH-MSP-2009-IS39-04】

Temporal Information Cooperated Gaussian Mixture Models for Real-time Surveillance with Ghost Detection

Tianci Huang, Chengjiao Guo, Jingbang Qiu, and Takeshi Ikenaga
Waseda University, Japan.

B10-05 【IIH-MSP-2009-IS39-05】

A Gabor Pseudo Fisherface Based Face Recognition Algorithm for LSI Implementation

Yohei Fukumizu, Tomoaki Takano, Yasuyuki Oshima, Toshihiko Terada, and Hironori Yamauchi
Ritsumeikan University, Japan.

B10-06 【IIH-MSP-2009-IS39-06】

An Approach to Video Coding Using Parameter Estimation in the Decoding Process

Gen Fujita and Tomokazu Matsuno
Osaka Electro-Communication University, Japan.

B10-07 【IIH-MSP-2009-295】

Wavelet-based sequence Codec Implementation on TMS320DM642

Ali Ghorbanian and Amir Moosavinia

Khaje Nasir Toosi University of Technology, Iran.

B10-08 【IIH-MSP-2009-363】

VLSI Design and Analysis of Multipliers for Low Power

Pachara V. Rao, Cyril Prasanna Raj, and S. Ravi

Research Scholar, RNSIT, DR.MGR University, Chennai

Session B11 : Intelligent Watermarking Techniques, Image

Authentication and Visual Cryptography(II)

Session Chairs:

Dr. Chia-Chen Lin, Providence University, Taiwan

Dr. Shiuh-Jeng Wang, Central Police University, Taiwan

B11-01 【IIH-MSP-2009-IS11-07】

Yet Another Friendly Progressive Visual Secret Sharing Scheme

Tzung-Her Chen and Yao-Sheng Lee

National Chiayi University, Taiwan, R.O.C.

B11-02 【IIH-MSP-2009-IS11-08】

Using Fano Plane and Image Centroids for Rotation, Scaling, or Translation Resistant Watermarking

Zhi-Fang Yang, Chih-Jung Su, Ping-Chang Tseng, and Chan-Ting Shu

National Taipei University, Taiwan, R.O.C.

B11-03 【IIH-MSP-2009-IS11-09】

An Embedding Technique Based upon Block Prediction and Code Cascading Shift

Chin-Feng Lee, Jau-Ji Shen, and Mei-Chun Chuang

Chaoyang University of Technology, Taiwan, R.O.C.

B11-04 【IIH-MSP-2009-IS11-10】

A Scheme of Modulo-Based Capacity-improvement upon EMD Systems

Hung-Min Sun, Chi-Yao Weng, and Shiuh-Jeng Wang

National Tsing-Hua University, Taiwan, R.O.C.

B11-05 【IIH-MSP-2009-IS11-11】

A Novel Secure Data Hiding Scheme Using a Secret Reference Matrix

Chi-Nan Lin, Chin-Chen Chang, Wei-Bin Lee, and Jason Lin

National Chung Cheng Univ., Taiwan, R.O.C.

B11-06 【IIH-MSP-2009-IS11-12】

Lossless Information Hiding Scheme Based on Predictive Coding

Tzu-Chuen Lu, Cheng-Chun Huang, and Siang-Ru Liao

Chaoyang University of Technology, Taiwan, R.O.C.

B11-07 【IIH-MSP-2009-588】

A Schema for Multi-Signature Handling Based on Workflow Model

Jin-Bao Liu, Zhi-Long Qiu, Hui Zhou, Bao-Hui Liu, and Xia-Mu Niu
Harbin Institute of Technology Harbin, China.

B11-08 【IIH-MSP-2009-699】

A Robust Watermarking Algorithm Based on Differential Energy and QIM for Uncompressed Video

Zhaoqing Liu, Qiong Li, Shuai Guan, and Xiyuan Peng
Harbin Institute of Technology, China.

Session B12 : Digital Archives and Digital Heritages(II)

Session Chairs:

Dr. Kozaburo Hachimura, Ritsumeikan University, Japan

Dr. Hiromi Tanaka, Ritsumeikan University, Japan

B12-01 【IIH-MSP-2009-IS34-07】

Digital Reconstruction of a Historical Kabuki Theater

Kohei Furukawa, Ryo Akama, Chisako Hirose, and Kozaburo Hachimura
Ritsumeikan University, Japan.

B12-02 【IIH-MSP-2009-IS34-08】

Analysis of Gait Motion by Using Motion Capture in the Japanese Traditional Performing Arts

Woong Choi, Hiroyuki Sekiguchi, and Kozaburo Hachimura
Ritsumeikan University, Japan.

B12-03 【IIH-MSP-2009-IS34-09】

Extracting Tactile Sensation Information from Multi-illuminated Images of Tangible Cultural Property

Xin Yin, Kazuyoshi Nomura, and Hiromi T. Tanaka
Ritsumeikan University, Japan.

B12-04 【IIH-MSP-2009-IS34-10】

An Analysis of Body Movement on Music Expressivity Using Motion Capture

Mamiko Sakata and Sayaka Wakamiya
Doshisha University, Japan.

B12-05 【IIH-MSP-2009-IS34-11】

Body Motion Analysis for Similarity Retrieval of Motion Data and Its Evaluation

Woong Choi, Takatoshi Ono, and Kozaburo Hachimura
Ritsumeikan University, Japan.

B12-06 【IIH-MSP-2009-727】

Achieving Secure Fuzzy Commitment Scheme for Optical PUFs

Tanya Ignatenko and Frans Willems
University of Technology, Netherlands.

B12-07 【IIH-MSP-2009-859】

Information Hiding into Interaural Phase Differences for Stereo Audio Signals

Ryouichi Nishimura

National Institute of Information and Communications Technology, Japan.

B12-08 【IIH-MSP-2009-508】

A Falsification Prevention Method for Face Authentication Using Light

Yosuke Horiuchi and Osamu Uchida

Engineering Tokai University, Japan.

Session B13 : Advanced Reversible Data Hiding and Steganalysis

Session Chairs:

Dr. Xiaoyi Yu, Peking University, China

B13-01 【IIH-MSP-2009-IS29-01】

Novel Robust Image Watermarking Exploiting The Features of Double Domains

Xinshan Zhu, Yun Yang, and Yanming Chen

Yangzhou University, China.

B13-02 【IIH-MSP-2009-IS29-03】

Revisit Steganalysis on QIM-based Data Hiding

Qinxia Wu, Weiping Li, and Xiao Yi Yu

Anyang Normal University, China.

B13-03 【IIH-MSP-2009-IS29-04】

Chain Coding Based Data Hiding in Binary Images

Xiao Yi Yu and Aiming Wang

Anyang Normal University, China.

B13-04 【IIH-MSP-2009-99】

Robust Data Hiding by Hilbert Curve Decomposition

Brian K. Lien

Fu Jen Catholic Univ., Taiwan, R.O.C.

B13-05 【IIH-MSP-2009-301】

Identity Based Authenticated Key Agreement for Tree-Based Group

Xiangfei Sun, Qiuliang Xu, and Tao Ban

Shandong University, China.

B13-06 【IIH-MSP-2009-596】

Image Watermarking in Face Recognition Systems Based on Contourlet Transform

Ehsan Ehsani, M. Shahram Moin, and Farbod Razzazi

Islamic Azad University, Iran.

B13-07 【IIH-MSP-2009-IS15-01】

A Histogram Descriptor Based on Co-occurrence Matrix and its Application in Cloud Image Indexing and Retrieval

Qingyong Li and Weitao Lu
Beijing Jiaotong University, China.

B13-08 【IIH-MSP-2009-IS15-03】

An Image Index Algorithm Based on Hierarchical Clustering

Tao Yang and Hongli Xu
Beijing Jiaotong University, China.

Session B14 : Intelligent Image Fusion and Its Application

Session Chairs:

Dr. Jian Qiu Zhang, Fudan University, China

Dr. Yi Shen, Harbin Institute of Technology, China

Dr. Bo Hu, Fudan University, China

B14-01 【IIH-MSP-2009-IS30-01】

Curvelet Based Image Fusion for Ultrasound Contrast Harmonic Imaging

Naizhang Feng, Mingjian Sun, Liyong Ma, and Jiachen Ma

Harbin Institute of Technology at Weihai, China.

B14-02 【IIH-MSP-2009-IS30-02】

Image Fast Template Matching Algorithm Based on Projection and Sequential Similarity Detecting

Liyong Ma, Yude Sun, Naizhang Feng, and Zheng Liu

Harbin Institute of Technology at Weihai, China.

B14-03 【IIH-MSP-2009-IS30-03】

A Fast Medical Image Registration Based on Steerable Pyramid

Yuhao Gu, Qing Lin, Bo Hu, and Xiao Bo

Fudan University, China.

B14-04 【IIH-MSP-2009-IS30-05】

Generalized Local Priority Based Medical Image Fusion Scheme

Jiasheng Hao, Yi Shen, Hongbing Xu, and Jianxiao Zou

University of Electronic Science and Technology of China, China.

B14-05 【IIH-MSP-2009-IS30-06】

An Iterative Refinement DSA Image Registration Algorithm Using Structural Image Quality Measure

Jiang Wang and Jiang Qiu Zhang

Fudan University, China.

B14-06 【IIH-MSP-2009-50】

Multisecret Image Sharing

Ran-Zan Wang, Yung-Yi Lin, Shang-Kuan Chen, Yeuan-Kuen Lee, Shih-YuHuang, and

Shyong-Jian Shyu

Yuan Ze University Taoyuan, Taiwan, R.O.C.

B14-07 【IIH-MSP-2009-307】

Non-expansion Hiding Secret Image in Visual Secret Sharing with Shift Style

Wen-Pinn Fang

Yuanpei University, Taiwan, R.O.C.

B14-08 【IIH-MSP-2009-559】

Non-expansible Flip-flop Visual Cryptography with perfect security

Shang-Kuan Chen and Sian-Jheng Lin

Yuanpei University, Taiwan, R.O.C.

Session B15 : Application of Intelligent Computing to Signal and Image

Processing

Session Chairs:

Dr. XiangYan Zeng, Fort Valley State University, USA

B15-01 【IIH-MSP-2009-IS35-03】

Denoising by Anisotropic Diffusion in ICA Subspace

Xiangyan Zeng, Yen-Wei Chen, and Caixia Tao

Fort Valley State University, USA.

B15-02 【IIH-MSP-2009-IS35-04】

Feature Selection using Recursive Feature Elimination for Handwritten Digit Recognition

Xiangyan Zeng, Yen-Wei Chen, Caixia Tao, and Deborah van Alphen

Fort Valley State University, USA.

B15-03 【IIH-MSP-2009-IS35-05】

Prediction of the O-glycosylation by Support Vector Machines and Characteristics of the Crowded and Isolated O-glycosylation Sites

Yukiko Nakajima, Kazutoshi Sakakibara, Masahiro Ito, and Ikuko Nishikawa

Ritsumeikan University, Japan.

B15-04 【IIH-MSP-2009-72】

Region-Based Segmentation versus Edge Detection

Hassana Grema Kaganami and Zou Beiji

Central South University, China.

B15-05 【IIH-MSP-2009-140】

Representing Meanings of Images Based on Associative Values with Lexicons

Ying Dai

Faculty of software and information science Iwate Pref. University, Japan.

B15-06 【IIH-MSP-2009-143】

Emotion Feature Vector of Finger Braille

Yasuhiro Matsuda and Tsuneshi Isomura

Kanagawa Institute of Technology, Japan.

B15-07 【IIH-MSP-2009-333】

Bilinear Coons Patch and its Application in Security Pattern Design

Wenfa Qi, Xiaolong Li, and Bin Yang

Peking University, China.

B15-08 【IIH-MSP-2009-446】

Age Estimation Using AAM and Local Facial Features

Jun-Da Txia and Chung-Lin Huang

National Tsing Hua University, Taiwan

B15-09 【IIH-MSP-2009-373】

Feature Selection for Character Recognition Using Genetic Algorithm

Yoshimasa Kimura, Akira Suzuki, and Kazumi Odaka

Sojo University, Japan

Session C01 : Advanced Data Hiding and Coding Techniques for Audio Signals

Session Chairs:

Dr. Kotaro Sonoda, National Institute of Information Communications and Technology, Japan

Dr. Akira Nishimura, Tokyo University of Information Sciences, Japan

C01-01 【IIH-MSP-2009-IS03-01】

Multi-Layer Audio Watermarking Based on Amplitude Modification

Akio Ogihara, Harumi Murata, Motoi Iwata, and Akira Shiozaki

Osaka Prefecture University, Japan.

C01-02 【IIH-MSP-2009-IS03-02】

Audio Watermarking Using QIM on Wavelet Packet Coefficients

Kotaro Sonoda and Osamu Takizawa

National Institute of Information and Communications Technology, Japan.

C01-03 【IIH-MSP-2009-IS03-03】

Robust Audio Watermarking with Time and Frequency Division

Kotaro Yamamoto and Munetoshi Iwakiri

National Defense Academy, Japan.

C01-04 【IIH-MSP-2009-IS03-04】

Embedding Limitations with Audio-watermarking Method Based on Cochlear-delay Characteristics

Kuniaki Imabeppu, Daiki Hamada, and Masashi Unoki

Japan Advanced Institute of Science and Technology, Japan.

C01-05 【IIH-MSP-2009-IS03-05】

A Data Hiding Method for Stereo Audio Signals Using the Polarity of the Inter-Channel Decorrelator

Kazuhiro Kondo

Yamagata University, Japan.

C01-06 【IIH-MSP-2009-IS03-06】

On the Channel Characteristic of Dither Modulation Data Hiding for MP3 Compression

Raul Martinez-Noriega, Mariko Nakano, and Kazuhiko Yamaguchi
University of Electro-Communications, Japan.

C01-07 【IIH-MSP-2009-61】

A Robust Content in DCT Domain for Image Authentication

Yuan-Gen Wang and Yan-Qiang Lei
Sun Yat-sen University, China.

C01-08 【IIH-MSP-2009-211】

Optimization of AVS-M Video Decoder for Real-time Implementation on Embedded RISC Processors

Guo-An Jian, Jui-Chin Chu, and Jiun-In Guo
National Chung Cheng University Taiwan, R.O.C.

Session C02 : Intelligent Video Processing

Session Chairs:

Dr. Tsong-Yi Chen, Kaohsiung University of Applied Sciences, Taiwan

C02-01 【IIH-MSP-2009-IS01-01】

Vision-based Hand Gesture Recognition Using PCA+Gabor Filters and SVM

Deng-Yuan Huang, Wu-Chih Hu, and Sung-Hsiang Chang

Da-Yeh University, Taiwan, R.O.C.

C02-02 【IIH-MSP-2009-IS01-02】

A Two-Pass Filter for Impulse Noise Reduction Based on Edge Characteristics

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

National Cheng Kung University, Taiwan, R.O.C.

C02-03 【IIH-MSP-2009-IS01-03】

A Fast Template Matching Method for Rotation Invariance Using Two Stage Process

Wen-Chia Lee and Chin-Hsing Chen

National Cheng Kung University, Taiwan, R.O.C.

C02-04 【IIH-MSP-2009-IS01-05】

A Watermarking Scheme Using Code Division Multiple Access and DWT

Ji-Hong Chen and Chin-Hsing Chen

National Cheng Kung University, Taiwan, R.O.C.

C02-05 【IIH-MSP-2009-IS01-06】

A Compression-Resistant Invisible Watermarking Scheme for H.264

Tsong-Yi Chen, Da-Jinn Wang, Thou-Ho (Chao-Ho) Chen, and Yi-Long Lin

National Kaohsiung University of Applied Sciences, Taiwan, R.O.C.

C02-06 【IIH-MSP-2009-93】

Information Embedding in MPEG-4 Scalable Lossless Audio

Te Li, Susanto Rahardja, Haiyan Shu, and Haibin Huang

Institute for Infocomm Research (I2R), Singapore.

C02-07 【IIH-MSP-2009-455】

An algorithm for packing bitstream of scalable video coding

Jung-Yang Kao and Jih-Sheng Tu
Industrial Technology Research Institute, Taiwan, R.O.C.

C02-08 【IIH-MSP-2009-819】

Fisherface vs. Eigenface in the Dual-tree Complex Wavelet Domain

Bin Li and Kai-Kuang Ma

Nanyang Technological University, Singapore.

Session C03 : Internet Multimedia Technology and Applications

Session Chairs:

Dr. Jim-Min Lin, Feng Chia University, Taiwan

C03-01 【IIH-MSP-2009-IS31-01】

Seamless Handover for Multimedia Applications between Heterogeneous Wireless Networks

Hung-Wei Lin, Kuo-Chih Chu, Wei-Tsong Lee, and Jim-Min Lin

Tamkang University, Taiwan, R.O.C.

C03-02 【IIH-MSP-2009-IS31-02】

A Novel Adaptive FEC and Interleaving Architecture for H.264/SVC Wireless Video Transmission

Po-Chang Huang, Kuo-Chih Chu, Hsiang-Fu Lo, Wei-Tsong Lee, and Tin-Yu Wu

Tamkang University, Taiwan, R.O.C.

C03-03 【IIH-MSP-2009-IS31-03】

Information Objects Encapsulating Multimedia and Intelligence

Chia-Ming Lee, Shang-Rong Tsai, Yu-Sheng Huang, Yuan-Liang Tai, Guang-Hung Huang, and Hewi-Jin Jiau

Chang Kung Christian University, Taiwan, R.O.C.

C03-04 【IIH-MSP-2009-IS31-04】

A Portable Feather-Weight Java-based Graphic Library for Embedded Systems on Java Processor

Pang-Chieh Wang, Chin-Yang Lin, Cheng-Liang Lin, Yi-Fang Li, Cheng-Kai Yang, and Ting-Wei Hou

National Cheng Kung University, Taiwan, R.O.C.

C03-05 【IIH-MSP-2009-IS31-05】

Automatic Internet Media Clipper

Hewijin Christine Jiau and Ming Lun Lee

National Cheng Kung University, Taiwan, R.O.C.

C03-06 【IIH-MSP-2009-IS31-06】

IDEA: An Interest-Driven Architecture for Establishing Personalized Semantic Infrastructure

Feng-Pu Yang, Hewijin Christine Jiau, and Kuo-Feng Ssu

National Cheng Kung University, Taiwan, R.O.C.

C03-07 【IIH-MSP-2009-636】

Reversible Secret Image Sharing Based on Shamir's Scheme

Chia-Chun Wu, Shang-Juh Kao, Wen-Chung Kuo, and Min-Shiang Hwang

National Chung Hsing University, Taiwan, R.O.C.

C03-08 【IIH-MSP-2009-756】

Histogram Shifting Lossless Data Hiding Based on Space Filling Curves

Xiao Yi Yu and Aiming Wang

Anyang Normal University, China.

Session C04 : Advances in Multimedia Signal Processing and Communications

Session Chairs:

Dr. Jen-Wen (J.W.) Ding, Kaohsiung University of Applied Sciences, Taiwan

Dr. Chih-Heng (C.H.) Ke, Kinmen Institute of Technology, Taiwan

C04-01 【IIH-MSP-2009-IS36-01】

P2P Multimedia Streaming Schedule for Maximum Network Capacity

Chin-Feng Lai, Yi-Wei Ma, Chia-Cheng Hu, and Yueh-Min Huang

National Cheng Kung University, Taiwan, R.O.C.

C04-02 【IIH-MSP-2009-IS36-02】

Optimal Rate Allocation and Admission Control Policy for P2P On-Demand Streaming Systems

Jen-Wen Ding, Guan-Wei Wu, and Der-Jiunn Deng

National Kaohsiung Univ. of Applied Sciences, Taiwan, R.O.C.

C04-03 【IIH-MSP-2009-IS36-03】

Path Dependent Adaptive Forward Error Correction with Multipath Interleaving Control Scheme for Video Streaming over Wireless Networks

Ming-Fong Tsai, Chih-Heng Ke, Chun-I Kuo, and Ce-Kuen Shieh

National Kinmen Institute of Technology, Taiwan, R.O.C.

C04-04 【IIH-MSP-2009-IS36-04】

Mining Temporal Region-based Service Patterns for Cooperative Caching in Wireless Multimedia Sensor Networks

Kawuu W. Lin, Ming-Hua Hsieh, and Vincent S. Tseng

National Kaohsiung University of Applied Sciences, Taiwan, R.O.C.

C04-05 【IIH-MSP-2009-IS36-05】

A GeoTagging Scheme Using Image Steganography and GPS Information Authentication

Mei-Yi Wu, Chuan-Chi Hsu, and Jia-Hong Lee

Chang Jung University, Taiwan, R.O.C.

C04-06 【IIH-MSP-2009-IS36-06】

Pre-Register Algorithm for SVC by Fast BSS Transition Wireless Networks

Huei-Yu Yang, Ya-Chun Li, Feng-Yi Chou, Tin-Yu Wu, and Wei-Tsong Lee

Tamkang University, Taiwan, ROC

C04-07 【IIH-MSP-2009-IS36-07】

New Watermarking Algorithm with Coding Efficiency Improvement and Authentication in Video Surveillance

Chuen-Ching Wang, Ming-Jun Chi, and Yao-Tang Chang

National Changhua University of Education, Taiwan, R.O.C.

C04-08 【IIH-MSP-2009-189】

An Enlargement Method Using Undecimated Wavelet Transform and Shape Function

Wen-Chien Yen, Yen-Yu Chen, and Ying-Wen Chang

Chung Chou Institute of Technology, Taiwan, R.O.C.

Session C05 : Multimedia Signal Processing and Application

Session Chairs:

Dr. Xian-Hua Han, Ritsumeikan University, Japan

Dr. Tomoko Tateyama, University of The Ryukyus, Japan

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Cairo, Egypt.

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Tomoko Tateyama, Hossein Foruzan, and Yen-Wei Chen

Ritsumeikan University, Japan.

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Mariusz Ziółko, Bartosz Ziółko, and Rafał Samborski

AGH University of Science and Technology AI, Poland.

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Session Chairs:

Dr. Yen-Wei Chen, Ritsumeikan University, Japan

Dr. Hiromi Tanaka, Ritsumeikan University, Japan

Dr. Satoshi Tanaka, Ritsumeikan University, Japan

Dr. Gang Xu, Ritsumeikan University, Japan

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Multi-mode Narrow-band Thresholding with Application in Liver Segmentation from Low-contrast CT Images

Amir H. Foruzan, Yen-Wei Chen, Reza Aghaeizadeh Zoroofi, Akira Furukawa, Yoshinobu Sato, and Masatoshi Hori

Ritsumeikan University, Shiga, Japan.

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Ristumeikan University, Japan.

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Ritsumeikan University, Japan.

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Tomohiro Nakamichi and Gang Xu

Ritsumeikan University, Japan.

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Session Chairs:

Dr. Shinsuke Fujioka, Osaka University, Japan

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Teruhisa Hochin, Yoshihiro Yamauchi, Hiroki Nomiya, Hideya Nakanishi, and Mamoru Kojima
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Eunjoo Choi, Jiayong Zhong, Shinsuke Fujioka, Hiroyuki Shiraga, and Hiroshi Azechi
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Osaka University, Japan.

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Shinya Nozaki, Yen-Wei Chen, Shinsuke Fujioka, Tatsuki Ueda, and Yoshinori Namihira
University of the Ryukyus, Japan.

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Yu-Long Qiao and Chun-Yan Song

Harbin Engineering University, China.

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Xinyin Huang, Yan Zhang, Aibing Xu, Hisashi Kawabayashi, and Yen-Wei Chen

Soochow University, China.

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Harbin Institute of Technology, China.

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Institute of Information Science and Technology, China.

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Jie He, Kebin Jia, and Zhuoyi Lv
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Moscow State Linguistic University Moscow, Russia.

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Rongling Lang and Hui Lu

Beijing University of Aeronautics and Astronautics, China.

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Chu-Zheng Wang, Xian-Hua Han, Masahiro Ito, Ikuko Nishikawa, and Yen-Wei Chen

Central South University of Forestry & Technology, China.

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Caifen Wang, Xiaodong Yang, Caihui Lan, and Xiaojun Cao

Northwest Normal University, China.

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Jian Zhang, Zongjue Qian, Guochu Shou, and Yihong Hu

Beijing University of Posts and Telecommunications, China.

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Jie Ling, Ju Liu, and Zhaowan Sun
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Chun-Xing Wang, Xiushan Nie, Xianqing Wan, Wen Bo Wan, and Feng Chao
Shandong Normal University, China.

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Li-Li Wan and Zhen-Jiang Miao
Beijing Jiaotong University, China.

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Guanghua Gu, Yao Zhao, and Zhenfeng Zhu
Beijing Jiaotong University, China.

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Zhang Tao, Hong Wenxue, and Wang Jinjia
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Session Chairs:

Dr. Yen-Wei Chen, Ritsumeikan University, Japan

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Akihiko Yamada, Rui Xu, Xian-Hua Han, and Yen-Wei Chen

Digital Technology Research Center, SANYO Electric Co., Ltd., Japan.

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Masaomi Iida, Yuki Denda, Masato Ishida, Naoya Kawabata, and Takanobu Nishiura

Research & Development Division, Murata Machinery, LTD., Japan.

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