

I IH-MSP 2014 Conference Program

Aug. 27 (Wedn)

09:00~09:30	Opening			
09:30~10:20	Keynote 1 (Room K1) Redesigning the Future MoCile Internet The whole world is going moCile Charles E. Perkins, Senior Principal Engineer at Futurewei Session Chair:			
11:20~10:50	Coffee Break			
10:50~11:40	Keynote 2 (Room K1) DistriCuted / Multiple Description Image and Video Coding Professor Yao Zhao, Beijing Jiaotong University, China Session Chair:			
11:40~13:20	Lunch			
13:20~15:10	Oral Session A1 Advanced Multimedia Processing and Retrievals	Oral Session A2 Information Processing	Oral Session A3 Applying Histogram Modification to EmCed Secret Message in AMCTC	CARE 2014 (Room A4~A5)
15:10~15:30	Coffee Break			
15:30~17:20	Oral Session B1 Recent Advances in RoCust Information Hiding against Print-Scan Process	Oral Session B2 Recent Advances in Information Hiding and Enrichment Technologies for Audio and Speech Signals	Oral Session B3 Network Technology	CARE 2014 (Room B4~B5)
17:20~17:40	Coffee Break			
17:40~19:30	Oral Session C1 A New Approach to ReversiCile Watermarking	Oral Session C2 Video Information Processing and Pattern Recognition	Oral Session C3 New Advances on Multimedia Security and Forensics	CARE 2014 (Room C4~C5)

Aug. 28 (Thurs)

08:30 ~ 9:20	Keynote 3 (Room K1) Tracing back the processing history of multimedia content Professor Alessandro Piva, University of Florence Session Chair:			CARE 2014 (Room D4 ~ D5)
9:20 ~ 10:10	Keynote 4 (Room K1) Security and privacy challenges at Corder Between cyCer and physical worlds Professor Isao Echizen, National Institute of Informatics Session Chair:			
10:10 ~ 10:30	Coffee Break			
10:30 ~ 12:00	Oral Session D1 Signal Processing Methods for Music Information Retrieval in the Future Internet	Oral Session D2 Cross-discipline Techniques in Signal Processing and Networking	Oral Session D3 Multimedia Services and Security	
12:00 ~ 13:30	Lunch			
13:30 ~ 15:20	Oral Session E1 Technologies for Speech Communication in the future Internet	Oral Session E2 Intelligent Video Processing	Oral Session E3 SYSTEM-ON-CHIP FOR SIGNAL PROCESSING	CARE 2014 (Room E4 ~ E5)
15:20 ~ 15:40	Coffee Break			
15:40 ~ 17:10	Oral Session F1 3D Spatial Audio Technologies in the Future Internet	Oral Session F2 Intelligent Image and Signal Processing	Oral Session F3 IPv6 Applications and Services	CARE 2014 (Room F4 ~ F5)
16:30	Going Bus Departure			
17:30	Going Bus Departure			
17:00 ~ 20:00	Banquet			
18:20	Return Bus Departure			
20:20	Return Bus Departure			

Aug. 29 (Fri)

08:30~10:00	Oral Session G1 Intelligent Multimedia Tools and Applications (1)	Oral Session G2 Security and Privacy in Computer Forensics Applications	Oral Session G3 New Advances in Communication and Multimedia Security (1)	CARE 2014 (Room G4~G5)
10:00~10:20	Coffee Break			
10:20~11:40	Oral Session H1 Intelligent Multimedia Tools and Applications (2)	Oral Session H2 Ergonomic Information and Control Systems	Oral Session H3 New Advances in Communication and Multimedia Security (2)	
10:20~12:00	Oral Session H4 Intelligent and Multimedia Computing for Real-Life Applications	Oral Session H5 Session I3: Network Testbed and Industrial Control System Security		

	Floor 2F			Floor 3F
Indication	Room 1	Room 2	Room 3	Rooms 4 & 5
	Keynote Session A1 Session B1 Session C1 Session D1 Session E1 Session F1 Session G1 Session H1	Session A2 Session B2 Session C2 Session D2 Session E2 Session F2 Session G2 Session H2	Session A3 Session B3 Session C3 Session D3 Session E3 Session F3 Session G3 Session H3	Sessions A4 & A5 Sessions B4 & B5 Sessions C4 & C5 Sessions D4 & D5 Sessions E4 & E5 Sessions F4 & F5 Sessions G4 & G5 Sessions H4 & H5

IHH-MSP2014 Program

Aug. 27 (Wed.)

- 13:20~15:10 Session A1: Advanced Multimedia Processing and Retrievals
Session Organizers: Prof. Takashi Toriu and Prof. Hiromitsu Hama
- A1-01 "An Image Inpainting Method for Stereoscopic Images Based on Filling Route" by Fang-Hsuan Cheng and Moo-Di Loo
 - A1-02 "Retinal projection display using diffractive optical element" by Yasuhiro Takatsuka, Hirofumi Yabu, Kayo Yoshimoto and Hideya Takahashi
 - A1-03 "Three-dimensional light field display with overlaid projection" by Hodaka Yamada, Hirofumi Yabu, Kayo Yoshimoto and Hideya Takahashi
 - A1-04 "Vision-Based Path Learning for Home Robots" by Atsushi Ueno, Natsuki Kajihara, Natsuko Fujii and Tomohito Takubo
 - A1-05 "A Cluster Based Ranking Framework for Multi-Typed Information Networks" by Pyke Tin, Takashi Toriu, Thi Thi Zin and Hiromitsu Hama
 - A1-06 "A New Background Subtraction Method using Bivariate Poisson Process" by Thi Thi Zin, Pyke Tin, Takashi Toriu and Hiromitsu Hama
- 13:20~15:10 Session A2: Information Processing
Session Organizers:
- A2-01 "Scientific literature retrieval model based on weighted term frequency" by Xi-Quan Yang, Dian Yang, Ming Yuan and Xing-Hua Lv
 - A2-02 "Elimination of matching digital images to identify objective measures of quality" by Jakub Peksinski, Grzegorz Mikolajczak and Janusz Pawel Kowalski
 - A2-03 "On Extreme Learning Machine for Watermarking of an Images in Discrete Wavelet Transform Domain" by Ram Pal Singh, Neelam Dabas and Vikash Chaudhary
 - A2-04 "Full-frame Video Stabilization via SIFT Feature Matching" by Yu-Hsi Chen, Hsueh-Yi Sean Lin and Chih-Wen Su
 - A2-05 "Formalization and Systematization of Differential Cryptanalysis Notions" by Andrey Pestunov
 - A2-06 "A Hybrid Multi-Functions Digital Public Address System with Earthquake Early Warning" by Chung-Heng Chuang, Tsung-Hsing Lin, Liang-Bi Chen, Tung-Lin Lee, Chao-Hsuan Chuang, Katherine Shi-Min Li, Chih-Lin Hung and Chao-Wen Wu
 - A2-07 "A Deep Structure for Facial Expression Recognition under Partial Occlusion" by Yue Cheng, Bin Jiang and Ke-Bin Jia
- 13:20~15:10 Session A3: Data Hiding and Secret Sharing
Session Organizers: Prof. Mu-En Wu
- A3-01 "A Large Payload Information Hiding Scheme Using Two-Level Exploiting Modification Direction" by Chin-Chen Chang and Hsiao-Ling Wu
 - A3-02 "Applying Histogram Modification to Embed Secret Message in AMBTC" by Chin-Chen Chang, Hsiao-Ling Wu and Ting-Feng Chung
 - A3-03 "Polynomial-based secret sharing scheme based on the absolute moment block truncation coding technique" by Chin-Chen Chang and Chin-Yu Sun
 - A3-04 "Optimizing Pixel Predictors Based on Self-similarities for Reversible Data Hiding" by Xiaocheng Hu, Weiming Zhang and Nenghai Yu
 - A3-05 "Effects of Random Sign Encryption in JPEG 2000-Based Data Hiding" by Wannida Sae-Tang, Masaaki Fujiyoshi and Hitoshi Kiya
 - A3-06 "An Efficient and Simplified Data Hiding Technique based on 2's Complement" by Tzu-Chuen Lu, Chun-Ya Tseng, Chang-Mu Chen, Hui-Shih Leng and Ying-Hsuan Huang
 - A3-07 "Data Hiding Scheme Based on Edge Detection and Triangular Mirroring" by Tzu-Chuen Lu, Chun-Ya Tseng, Hui-Shih Leng and Chun-Chih Huang
- 15:30~17:20 Session B1: Recent Advances in Robust Information Hiding against Print-Scan Process
Session Organizers: Prof. Michiharu Niimi and Dr. Kitahiro Kaneda

- B1-01 "Compatible 2D-code having tamper detection system with QR-code" by Takayuki Ishihara and Michiharu Niimi
- B1-02 "A study of equipment dependence of a single-dot pattern method for an information-hiding by applying an error-correcting code" by Kitahiro KANEDA, Hiroyasu KITAZAWA, Keiichi IWAMURA and Isao ECHIZEN
- B1-03 "Novel proposal and evaluation of information extraction method from Artificial Fiber Pattern using a camera" by Kitahiro KANEDA, Tomoki Inui, Keiichi IWAMURA and Isao ECHIZEN
- B1-04 "Mathematical Simulation Model and its Evaluation for Artificial Fiber Pattern" by Kitahiro KANEDA, Kenta Kawabata, Keiichi IWAMURA and Isao ECHIZEN
- B1-05 "Integration of Multiple Shape Features for Human Detection in Videos" by Liang-Hua Chen, Pei-Chieh Lee, Li-Yun Wang and Hong-Yuan Liao
- B1-06 "Robust Message Hiding for QR Code" by Thach V. Bui, Nguyen K. Vu, Thong T.P. Nguyen, Isao Echizen and Thuc D. Nguyen

15:30~17:20 Session B2: Recent Advances in Information Hiding and Enrichment Technologies for Audio and Speech Signals

Session Organizers: Prof. Masashi Unoki and Prof. Kazuhiro Kondo

- B2-01 "Gender-Dependent Babble Maskers Created from Multi-Speaker Speech for Speech Privacy Protection" by Kazuhiro Kondo and Hiroki Sakurai
- B2-02 "Encoding data by frequency modulation of a high-low siren emitted by an emergency vehicle" by Akira Nishimura
- B2-03 "Robust Audio Information Hiding Based on Stereo Phase Difference in Time-frequency Domain" by Nobutaka Ono
- B2-04 "Secure Speech Encryption System Using Segments for Speech Synthesis" by Minoru Kohata
- B2-05 "An Audio Watermarking Method Using Pitch-Transformed Sound of Original Music" by Harumi Murata and Akio Ogihara
- B2-06 "Hybrid Speech Watermarking based on Formant Enhancement and Cochlear Delay" by Shengbei Wang and Masashi Unoki

15:30~17:20 Session B3: Network Technology

Session Organizers:

- B3-01 "A Secure RFID Mutual Authentication Protocol Conforming to EPC Class 1 Generation 2 Standard" by Chin-Chen Chang, Wei-Yi Chen and Ting-Fang Cheng
- B3-02 "The K-Means clustering methods applied in the message scheduling methods of FlexRay communication network based on the Embedded FlexRay Node" by Yung-Hoh Sheu, Zuo-Wen Wang and Yao-Jhong Liou
- B3-03 "Steganalysis of LSB matching based on local binary patterns" by Xinlu Gui, Xiaolong Li and Bin Yang
- B3-04 "The Adaptive Recommendation Segment Mechanism to Reduce Traffic Congestion in Smart City" by Gwo-Jiun Horng
- B3-05 "Robust Message Hiding for QR Code" by Thach V. Bui, Nguyen K. Vu, Thong T.P. Nguyen, Isao Echizen and Thuc D. Nguyen
- B3-06 "The Implementation of IPv6-enabled Locators for Location-based Smart Marketing Service" by Tseng-Yi Chen, Fan-Hsun Tseng, Nen-Fu Huang, Wei-Kuan Shih, Han-Chieh Chao and Li-Der Chou
- B3-07 "Stereo matching algorithm of Color Image Based on Weber's law and Census" by Qiang Wu, Xiang-Nan Zhao and Xu-Wen Li

17:40~19:30 Session C1: Multimedia Security and Privacy

Session Organizers: Prof. Isao Echizen and Prof. Keiichi Iwamura

- C1-01 "A New Approach to Reversible Watermarking" by Toshiki Ito, Ryo Sugimura, Hyunho Kang, Keiichi Iwamura, Kitahiro Kaneda and Isao Echizen
- C1-02 "A Zero-watermarking-like Steganography and Potential Applications" by Hirokazu Ishizuka, Isao Echizen, Keiichi Iwamura and Koichi Sakurai
- C1-03 "Surveillance Camera System to Achieve Privacy Protection and Crime Prevention" by Kento Kobayashi, Keiichi Iwamura, Kitahiro Kaneda and Isao Echizen
- C1-04 "Image Protection System with Steganography and Authentication" by Hyunho Kang and Keiichi Iwamura

C1-05 "Analysis of Facebook Friends using Disclosure Level" by Shimon Machida, Tomoko Kajiyama, Shigeru Shimada and Isao Echizen

17:40~19:30 Session C2: Video Information Processing and Pattern Recognition

Session Organizers: Jian Guan

C2-01 "Robust Object Tracking Using Adaptive Multi-Features Fusion based on Local Kernel Learning" by Hainan Zhao and Xuan Wang

C2-02 "Dependency parsing with structure knowledge" by Shixi Fan

C2-03 "Semi-supervised Marginal Fisher Analysis" by Shu Wang

C2-04 "Extracting learning features of knowledge unit in knowledge Map" by XiangJun Huang, QingHua Zheng and Chao Zhang

C2-05 "Visualization for Non-Linear Enhanced Volume Data" by Fei Yang, Weigang Lv, Lei Zhang, Weigang Zhang and Kuanquan Wang

C2-06 "Semantic Vocabulary Cognition Model for the Improvement of Automatic Image Annotation" by Zhong-Hua Sun and Ke-Bin Jia

C2-07 "Optimization for I-frame based on Residual Image" by Yuan Gao, Peng-Yu Liu and Ke-Bin Jia

C2-08 "The PCA-Demons Algorithm for Medical Image Registration" by Li-Ya Zhao and Ke-Bin Jia

17:40~19:30 Session C3: New Advances on Multimedia Security and Forensics

Session Organizers: Prof. Yao Zhao and Prof. Rongrong Ni

C3-01 "Improved SIFT-based Copy-move Detection Using BFSN Clustering and CFA Features" by Lu Liu, Rongrong Ni, Yao Zhao and Siran Li

C3-02 "Security Monitoring by Watermarking and Hashing for Multimedia Service on Internet Platform" by Zi Wang, Ju Liu, Wenbo Wan, Jiande Sun, Jun Bo and Yongkang Liu

C3-03 "Pitfalls in an Ultra-lightweight Authentication Protocol for Low-cost RFID" by Chien-Ming Chen, Jeng-Shyang Pan, Raylin Tso, Szu-Wei Huang and Mu-En Wu

C3-04 "Regular Clipping Detection of Image Based on SIFT" by Yanli Huang, Haoliang Cui and Shaozhang Niu

C3-05 "A novel reversible data hiding scheme based on reference pixels and adaptive block selection" by Xinlu Gui, Siren Cai, Xiaolong Li and Bin Yang

C3-06 "A water environment security monitoring algorithm based on intelligent video surveillance" by Zihan Pang, Kebin Jia and Jinchao Feng

C3-07 "Research Progress of Obstacle Detection Based on Monocular Vision" by Qiang Wu, Jie Wei and Xu-Wen Li

Aug. 28 (Thu.)

10:30~12:00 Session D1: Signal Processing Methods for Music Information Retrieval in the Future Internet

Session Organizers: Prof. Kyogu Lee and Prof. Akinori Ito

D1-01 "A Singing Voice Synthesizer Controlled by Arm Motions Using Compressed Phoneme Determination Algorithm" by Masashi Ito, Tomohiro Ashina and Yujiro Saegusa

D1-02 "Analysis of English Pronunciation of Singing Voices Sung by Japanese Speakers" by Kazumichi Yoshida, Takashi Nose and Akinori Ito

D1-03 "Assessing the Intended Enthusiasm of Singing Voice Using Energy Variance" by Akinori Ito

D1-04 "Transcribing Frequency Modulated Musical Expressions from Polyphonic Music using HMM Constrained Shift Invariant PLCA" by Dooyong Sung and Kyogu Lee

D1-05 "On-line Nonnegative Matrix Factorization for Music Signal Separation" by Seokjin Lee

D1-06 "Melody Extraction for Vocal Polyphonic Music Based on Bayesian Framework" by Liming Song, Ming Li, Yonghong Yan

10:30~12:00 Session D2: Cross-discipline Techniques in Signal Processing and Networking

Session Organizers: Dr. Feng-Cheng Chang, Dr. Yueh-Hong Chen and Dr. Hsiang-Cheh Huang

D2-01 "Design of Triple Symmetric Arms Dipole Antenna for 900/1800/2450MHz Applications" by Yuh-Yih Lu, Jun-Yi Guo and Hsiang-Cheh Huang

- D2-02 "Error-Control for Compressed Sensing of Images with Multi-Channel Transmission" by Hsiang-Cheh Huang, Ting-Hsuan Wang and Feng-Cheng Chang
- D2-03 "Analysis and Simulation of Theme Park Queuing System" by Liou Chu, Fu-Yi Hung and Yen-Cheng Lu
- D2-04 "Enhanced Difference Alteration with Weighted Averages for Reversible Data Hiding" by Hsiang-Cheh Huang, Chuan-Chang Lin, Yuh-Yih Lu and Yueh-Hong Chen
- D2-05 "Discussions on Implementing Iterative Hard Thresholding Algorithm" by Feng-Cheng Chang and Hsiang-Cheh Huang
- D2-06 "Reversible Image Watermarking Based on Genetic Algorithm" by Yueh-Hong Chen and Hsiang-Cheh Huang

10:30~12:00 Session D3: Multimedia Services and Security

Session Organizers: Dr. Ching-Yu Yang and Dr. Chih-Lin Hu

- D3-01 "Robust Color Image Watermarking Approach Based on Shape-specific Points" by Ching-Yu Yang and Wen-Fong Wang
- D3-02 "A Reversible Data Hiding Method Using Inverse S-scan Order and Histogram Shifting" by Yung-Chen Chou, Guo-Hao Huang, Huang-Ching Lee and Ke-Jhen Lin
- D3-03 "An Web API Aggregation Service for Mobile Mashup Applications" by Hung-Yu Lin and Jiung-Long Huang
- D3-04 "Ubiquitous Multimedia Services in Home-Based Context-Aware Environments" by Chih-Lin Hu, Cheng-Lun Lin, Hung-Tsung Huang, Yi-Yu Su and Pin-Chuan Liu
- D3-05 "14-ms-Group-Delay and Low-Complexity Algorithm Design of 18-band Quasi-ANSI S1.11 1/3 Octave Filter Bank for Digital Hearing Aids" by Shin-Chi Lai, Chih-Hao Liu, Ling-Yi Wang and Sheau-Fang Lei
- D3-06 "Low-Complexity Algorithm of Recursive Analysis and Synthesis Quadrature Mirror Filterbanks for Digital Radio Mondiale" by An-Kai Li, Shin-Chi Lai, Wen-Kai Tsai and Sheau-Fang Lei

13:30~15:20 Session E1: Technologies for Speech Communication in the future Internet

Session Organizers: Prof. Yonghong Yan, Prof. Nam Soo Kim and Prof. Masato Akagi

- E1-01 "Emotional Speech Recognition and Synthesis in Multiple Languages Toward Affective Speech-to-Speech Translation System" by Masato AKAGI, Xiao HAN, Reda ELBAROUGY, Yasuhiro HAMADA and Junfeng LI
- E1-02 "Quantized F0 Context and Its Applications to Speech Synthesis, Speech Coding and Voice Conversion" by Takashi Nose and Takao Kobayashi
- E1-03 "Voice Activity Detection based on Statistical Model Employing Deep Neural Network" by Inyoung Hwang and Joon-Hyuk Chang
- E1-04 "Speaker adaptation using nonlinear regression techniques for HMM-based speech synthesis" by Doo Hwa Hong, Shin Jae Kang, Joun Yeop Lee and Nam Soo Kim
- E1-05 "Boosted Hybrid DNN/HMM System Based on Correlation-Generated Targets" by Mengzhe Chen, Qingqing Zhang, Jieli Pan and Yonghong Yan
- E1-06 "Enhanced Out of Vocabulary Word Detection Using Local Acoustic Information" by Xuyang Wang, Ta Li, Pengyuan Zhang, Jieli Pan and Yonghong Yan

13:30~15:20 Session E2: Intelligent Video Processing

Session Organizers: Prof. Chao-Ho Chen

- E2-01 "Moving-Object Intrusion Detection Based on Retinex-Enhanced Method" by Chao-Ho Chen, Tsong-Yi Chen, Yu-Chun Lin and Wu-Chih Hu
- E2-02 "HDR Enhancement Based on Bi-curve Mapping for Image Sequences" by Tsong-Yi Chen, Chao-Ho Chen, Tzu-Feng Tseng, Guan-Ming Luo and Wu-Chih Hu
- E2-03 "An Efficient Method for Sweep Coverage with Minimum Mobile Sensor" by Bing-Hong Liu, Ngoc-Tu Nguyen and Van-Trung Pham
- E2-04 "A Fast Method for Decoding Reed-Solomon Codes on Processors" by Yan-Haw Chen, Ching-Fu Huang and Shao-I Chu
- E2-05 "An automatic Chinese font library generation method by modifying vector contour curves" by Wenfa Qi, Yuxin Liu and Wei Guo
- E2-06 "A Novel Turtle Shell Based Scheme For Data Hiding" by Ching-Chun Chang, Yanjun Liu and Thai-Son Nguyen

13:30~15:20 Session E3: SYSTEM-ON-CHIP FOR SIGNAL PROCESSING

Session Organizers: Prof. Ming-Hwa Sheu

- E3-01 "Hardware and Software Co-design of the Moving Object Tracking System" by Yeu-Horng Shiau, Cheng-Han Li, Zhi-hao Wang and Yi-Tai Guo
- E3-02 "Low-Cost and Low-Complexity Electrocardiogram Signal Recorder Design Based on Arduino Platform" by Shin-Chi Lai, Wen-Chih Li, Sin-He You, Da-Wei Zhuang and Shih-Ting Gao
- E3-03 "A Novel Coherence-Function-based Noise Suppression Algorithm by Applying Sound-Source Localization and Awareness-Computation Strategy for Dual Microphones" by Shin-Chi Lai, Hsu-Cheng Lai, Feng-Chung Hong, Huan-Ru Lin and Sheau-Fang Lei
- E3-04 "High Dynamic Range Image Based on Block-Based Edge Strength for Embedded System Design" by Wen-Kai Tsai, Chang-Jie Lai, Ming-Hwa Sheu and Tsu-Hsiung Chen
- E3-05 "Ultra Low Power Circuit Design Based on Adiabatic Logic" by Chi-Chia Sun, Cheng-Chih Wang and Ming-Hwa Sheu
- E3-06 "Real-time text detection using PAC/DUE embedded system" by Shih-Chang Hsia, Cheng-Nan Ho and Chien-Hung Liu
- E3-07 "Feature Points Based Video Object Tracking for Dynamic Scenes and Its FPGA System Prototyping" by Yin-Tsung Hwang, Bing-Cheng Tsai, Yu-Ting Pai and Ming-Hwa Sheu

15:40~17:10 Session F1: 3D Spatial Audio Technologies in the Future Internet

Session Organizers: Prof. Yoiti Suzuki, Prof. Li Junfeng and Prof. Seong-Cheol Kim

- F1-01 "Virtual Auditory Display by Remote Rendering Via Computer Network" by Yukio Iwaya, Makoto Otani, Takao Tsuchiya and Junfeng Li
- F1-02 "Effect of Interaural difference for localization of spatially segregated sound" by Daisuke Morikawa
- F1-03 "Representation of individual HRTFs using weighting coefficients of SENZI" by Shuichi Sakamoto, Yoshiki Satou, Jorge Trevino and Yoiti Suzuki
- F1-04 "Feasibility Study for Objective Measurement on Sound Localization Using Auditory Evoked Potential" by Chan Jun Chun, Seok Hee Jeong, Jong Won Shin, Hong Kook Kim and Jin Ah Kang
- F1-05 "Auralization of musical instruments in virtual halls considering source directivity" by Park Kyoungsoo, Jeong-Hun Seo, Kim JeungHun and Cheon Sung Jun
- F1-06 "On the Performance and Robustness of Crosstalk Cancelation with Multiple Loudspeakers" by Xing Yang, Risheng Xia, Zhonghua Fu, Junfeng Li, Yonghong Yan, Shuichi Sakamoto and Yoiti Suzuki

15:40~17:10 Session F2: Intelligent Image and Signal Processing

Session Organizers: Prof. Wen-Yuan Chen

- F2-01 "Based on the texture analysis to inspect the tread worn status on the tire" by Shih-Yen Hung and You-Jyun Syu
- F2-02 "Blurred Image Restoration using Fast Blur-kernel Estimation" by Hui-Yu Huang and Wei-Chang Tsai
- F2-03 "The Cleaning Machine Path Design Using Image Recognition Techniques" by Wen-Yuan Chen, Shih-Sung Cheng, Ching-Te Wang, Chin-Fu Tsai and Chiou-Kou Tung
- F2-04 "Particle Swarm Optimization Enhancement by Applying Global Ratio Based Communication Topology" by Ruey-Maw Chen and Hua-Tsun Huang
- F2-05 "A Modified K-means Algorithm - Two-Layer K-means Algorithm" by Chen-Chung Liu, Shao-Wei Chu, Yung-Kuan Chan and Shyr-Shen Yu
- F2-06 "License Plate Location System Using Smart-Phone with G-Sensor" by Chuin-Mu Wang, Jian-De Hong, Geng-Cheng Lin, Jing-Yuan Su and Zhe-Fu Lin

15:40~17:10 Session F3: IPv6 Applications and Services

Session Organizers: Dr. Shian-Shyong Tseng and Dr. Ching-Heng Ku

- F3-01 "Building an IPv6 Virtual Lab with the Multi-level Training Mechanism" by Shian-Shyong Tseng, Ching-Heng Ku, Ai-Chin Lu, Jun-Ming Su and Geng-Da Tsai
- F3-02 "An Enhancement of IPv4-in-IPv6 Mechanism" by N. Chuangchunsong, S. Kamolphiwong, T. Kamolphiwong and R. Elz
- F3-03 "A light-weight penetration test tool for IPv6 threats" by Gu-Hsin Lai
- F3-04 "Design and Implementation of Health Monitoring System for Solar Panel in IPv6 Network" by Wen Yen Lin, Kuang-Po Hsueh, Wang-Hsin Hsu, Liew Gha Yie and Wei-Chen Tai

- F3-05 "Ontology-based Anti-threat Decision Support System for IPV4/IPV6" by Shian-Shyong Tseng, Jui-Feng Weng, Li-Ling Hu and Hsu Nai-Wen
- F3-06 "Modification of Disparity Vector Derivation from Neighbouring Blocks in 3D-HEVC" by Yu-Xin Song and Ke-Bin Jia

Aug. 29 (Fri.)

- 08:30~10:00 Session G1: Intelligent Multimedia Tools and Applications (1)
Session Organizers: Dr. Ran-Zan Wang and Dr. Wen-Pinn Fang
- G1-01 "Bezier Curve-Based Tour Generator for Navigation in Google Earth-Based Virtual Campus" by Jen-Peng Yu, Jyh-Jong Lin, Mei-Chen Chu and Yuh-Hwa Pai
- G1-02 "Eye Tracking for Analyzing Applied Effects on Instructional Graphics Directing Visual Attention" by Hui-Hui Chen, Bor-Jiunn Hwang, Chiao-Wen Kao, Hung-Sheng Lai and Shih-Yu Huang
- G1-03 "Applying Media Richness Theory to Essay Writing Instruction . A Case of an Elementary School" by Shyi-Huey Wu, Bor-Jiunn Hwang, Ya-Ping Fan and Ching-Hui Chen
- G1-04 "A Dead-Reckoning Positioning Scheme Using Inertial Sensing for Location Estimation" by Yih-Shyh Chiou, Fuan Tsai and Sheng-Cheng Yeh
- G1-05 "High-payload lossless data hiding scheme with block statistics characteristics" by Shang-Kuan Chen, Ran-Zan Wang and Wen-Pinn Fang
- G1-06 "Data Transmission System for Mobile Device by Audio Hiding approach" by Wen-Pinn Fang, Ran-Zan Wang, Tzu-Hsuan Liao, Shang-Kuan Chen and Yeuan-Kuen Lee
- 08:30~10:00 Session G2: Security and Privacy in Computer Forensics Applications
Session Organizers: Dr. Chia-Chen Lin and Dr. Chuan Qin
- G2-01 "A Webpage Data Hiding Method by Using Tag and CSS Attribute Setting" by Yung-Chen Chou and Hsin-Chi Liao
- G2-02 "Transmissions for Delay-Guaranteed Information using Smart Antenna Systems" by Li-Ling Hung, Yu-Wei Huang and Sheng-Han Wu
- G2-03 "Tampering Detection and Content Recovery for Digital Images Using Halftone Mechanism" by Shanshan Yang, Chuan Qin, Zhenxing Qian and Boqing Xu
- G2-04 "Novel Image Authentication Scheme for AMBTC-compressed Images" by Chia-Chen Lin, Yuehong Huang and Wei-Liang Tai
- G2-05 "A Novel Reversible Data Hiding Scheme Using Ripple Strategy and Histogram Shifting" by Yung-Chen Chou, Huang-Ching Lee and Yong-Jin Yu
- 08:30~10:00 Session G3: New Advances in Communication and Multimedia Security (1)
Session Organizers: Prof. Qiong Li,
- G3-01 "Flexible Quantum Image Secret Sharing Based on Measurement and Strip" by Xianhua Song, Shen Wang, Jianzhi Sang, Xuehu Yan and Xiamu Niu
- G3-02 "A FPGA-based Design of Efficient QKD Sifting Module" by Qiong Li, Zhibin Lin, Dan Le and Hucheng Liu
- G3-03 "Equivalence proof of two (2, n) progressive visual secret sharing" by Xuehu Yan, Shen Wang and Xiamu Niu
- G3-04 "A FPGA-based Communication Scheme of Classical Channel in High-speed QKD system" by Qiong Li, Siyou Ma, Haokun Mao and Lin Meng
- G3-05 "Spam Detection Approach Based on C-Support Vector Machine and Kernel Principal-Component Analysis" by Shu Geng, Liu Lv and Rongjun Liu
- G3-06 "A Method to Generate Random Number for Cryptographic Application" by Xiamu Niu, Yongting Wang and Di Wu
- 10:20~11:40 Session H1: Intelligent Multimedia Tools and Applications (2)
Session Organizers: Dr. Ran-Zan Wang and Dr. Wen-Pinn Fang
- H1-01 "Video Resizing for Mobile Device" by Wen-Pinn Fang, Ming-Hao Liu, Yeuan-Kuen Lee and Rei-Heng Cheng

- H1-02 "Real-Time Broadcast System for Android System" by Wen-Pinn Fang, Chun Li and Tsu-Hsun Fu
- H1-03 "A Study on Captcha Recognition" by Chii-Jen Chen, You-Wei Wang and Wen-Pinn Fang
- H1-04 "Recognizing Actions with Multi-view 2D Observations Recovered from Depth Maps" by Guoliang Lu, Yiqi Zhou and Xueyong Li
- H1-05 "An energy minimization approach for Automatic Video Shot and Scene Boundary Detection" by Sinnu Susan Thomas, Sumana Gupta and Venkatesh K. S.

10:20~11:40 Session H2: Ergonomic Information and Control Systems

Session Organizers: Dr. Bor-Shyh Lin

- H2-01 "Data Glove Embedded with 6-DOF Inertial Sensors for Hand Rehabilitation" by Bor-Shing Lin, I-Jung Lee, Pei-Chi Hsiao, Shu-Yu Yang and Willy Chou
- H2-02 "Wireless surface electromyography monitoring system for dysphagia evaluation" by Chih-Jen Cheng, Zu-Po Yang, Chien-Zhi Ou and Bor-Shyh Lin
- H2-03 "A prototype design of a continuous and real-time wireless urine monitoring system" by Yung-Tsung Cheng, Jiun-Hung Lin and Cheng-Chi Tai
- H2-04 "Design of wearable brain computer interface based on motor imagery" by Chuan-Lung Lin, Tso-Yao Chu, Pei-Jung Wu, Chen-An Wang and Bor-Shyh Lin
- H2-05 "An AODV-based Backup Routing Mechanism for Time-Critical in Wireless Mesh Networks" by Ming-Hwa Cheng, Rui-Juan Deng, Wen-Shyang Hwang and Yan-Jing Wu

10:20~11:40 Session H3: New Advances in Communication and Multimedia Security (2)

Session Organizers: Prof. Qiong Li,

- H3-01 "A novel finger vein image quality evaluation method based on Triangular norm" by Jialiang Peng, Qiong Li and Xiamu Niu
- H3-02 "An Novel Real-Time Aeromagnetic Compensation Method Based on RLSQ" by Zhenjia Dou, Kexin Ren, Qi Han and Xiamu Niu
- H3-03 "Perceptual Image Hashing for DIBR 3D images Based on Ring Partition and Sift feature points" by Chen Cui, Shen Wang and Xiamu Niu
- H3-04 "A known-key scenario for steganalysis and a highly accurate detector within it" by Viktor Monarev and Andrey Pestunov
- H3-05 "A Dynamic Street View System Using Video Event Data Recorder" by Ching-Hao Lai, Jun-Dong Chang, Ji-Wei Lu and Fay Huang

10:20~12:10 Session H4: Intelligent and Multimedia Computing for Real-Life Applications

Session Organizers: Dr. Yi-Hui Chen and Dr. Pei-Yu Lin

- H4-01 "Comments on chaotic maps-based password-authenticated key agreement using smart cards" by Ya-Fen Chang, Wei-Liang Tai, Wei-Na Wu, Wei-Han Li and Yung-Chi Chen
- H4-02 "An ID-based user authentication scheme for cloud computing" by Jen-Ho Yang and Pei-Yu Lin
- H4-03 "Analysis of passenger flow in airport terminal" by Ping-Nan Chiang and Kevin Taaffe
- H4-04 "A QR Code-Based on-Street Parking Fee Payment Mechanism" by Wen-Chuan Wu
- H4-05 "An Image Hiding Method by Applying Tree Structure on Linking Pixels" by Chi-Shiang Chan, Yi-Hui Chen and Pei-Yu Lin
- H4-06 "An Optimal Modification BTC Scheme Based on Binary Search Tree" by Chia-Chen Lin, Xiao-Long Liu, Jian-Jie Zhou and Shyan-Ming Yuan
- H4-07 "An Instantiation of the Multiple-transfer Framework to Reduce Efforts in Context Model Learning for New Users in Smart Homes" by Ching-Hu Lu and Yi-Ting Chiang

10:20~12:10 Session H5: Network Testbed and Industrial Control System Security

Session Organizers: Dr. Yong Peng and Dr. Hai-Hui Gao

- H5-01 "Cyber Security Risk Assessment of Communication Network of Substation Based on Improved Grey Clustering" by Haihui Gao, Zhonghua Dai, Yong Peng and Huikang Lu
- H5-02 "Multi-Agent Intrusion Detection System Using Feature Selection Approach" by Yi Gong, Yong Fang, Liang Liu and Juan Li
- H5-03 "A New Information Security Risk Assessment Method in Power Production System Based on Rough Sets and Bayesian Network" by Zhonghua Dai, Haihui Gao, Yong Peng and LU Huikang
- H5-04 "Techniques and research trends of network testbed" by Haihui Gao, Yong Peng, Zhonghua Dai and Hanjing Li
- H5-05 "Night Video Surveillance Based on the Second-Order Statistics Features" by Cheng-Chang Lien, Wen-Kai Yu, Chang-Hsing Lee and Chin-Chuan Han

H5-06 "Robust Handwriting Extraction and Lecture Video Summarization" by F. H. Yeh, G. C. Lee, I. J. Chen and C. H. Liao

H5-07 "Analyzing Item Features for Cold-Start Problems in Recommendation Systems" by Soryoung Kim, Sang-Min Choi, Yo-Sub Han, Ka Lok Man and Kaiyu Wan