

2013 International Conference on Digital Image Processing (ICDIP 2013)

*2013 5th International Conference on Digital Image  
Processing (ICDIP 2013)*

*Conference Program*

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## **Onsite Registration: April 21, 2013 (Sunday)**

Registration Location: Lobby of Jinma Hotel Beijing

10:00 – 12:30 13:30 - 17:00	Arrival and Registration
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**Note:**

- (1) You can also register at any working time during the conference**
- (2) Certificate of Participation can be collected at the registration counter.**
- (3) The organizer won't provide accommodation, and we suggest you make an early reservation.**

**Please get the notification for your paper printed out and it is required when you register on desk.**

*Presentation Schedule on April 22, 2013 (Monday)*  
*Simple Version of Presentation Schedule*

<b>April 22 09:00-11:50</b> <b>Venue:</b> Room 1 (Level 3)	<b>09:00-09:15</b> Opening Remarks		
	<b>09:15-10:00</b> Keynote speech I		
	<b>10:00-10:45</b> Keynote speech II		
	<b>10:45-11:05</b> Group Photo & Coffee break		
	<b>11:05-11:50</b> Keynote speech III		
<b>April 22 12:00-13:00</b> Buffet Lunch <b>Venue:</b> Restaurant (Level 23)			
<b>April 22 13:00-15:30</b>	Session I <b>Venue:</b> Room 1 (Level 3)	Session II <b>Venue:</b> Room 2 (Level 3)	Session III <b>Venue:</b> Room 3 (Level 3)
	Poster Presentation <b>Venue:</b> Room 1, Room 2 & Room 3		
	Session IV <b>Venue:</b> Room 4 (Level 3)	Session V <b>Venue:</b> Room 5 (Level 3)	Session VI <b>Venue:</b> Room 6 (Level 3)
<b>April 22 15:30-16:00</b> Coffee break			
<b>April 22 16:00-18:30</b>	Session VII <b>Venue:</b> Room 1 (Level 3)	Session XIII <b>Venue:</b> Room 2 (Level 3)	Session IX <b>Venue:</b> Room 3 (Level 3)
	Session X <b>Venue:</b> Room 4 (Level 3)	Session XI <b>Venue:</b> Room 5 (Level 3)	Session XII <b>Venue:</b> Room 6 (Level 3)
<b>April 22 19:00-20:30</b> Award Ceremony & Dinner banquet <b>Venue:</b> Restaurant (Level 23)			

*Full Version of the Presentation Schedule*

Venue: Room 1 (Level 3)

9:00-09:15	Opening Remarks <b>Prof. Charles M. Falco</b> <b>University of Arizona, USA</b>
09:15-10:00	Keynote Speech I <b>Prof. Chin-Chen Chang</b> <b>Feng Chia University, Taiwan</b>
10:00-10:45	Keynote Speech II <b>Prof. Xudong Jiang</b> <b>Nanyang Technological University, Singapore</b>
10:40-11:00	<b>Group Photo &amp; Coffee break</b>
11:05-11:50	Keynote Speech III <b>Prof. Yulin Wang</b> <b>Wuhan University, China</b>

<i>Lunch</i>	<b>12:00-13:00</b>
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**Session I**  
**13:00-15:30 Room 1**

**Session Chair:**

Y. J. Chai

University Tunku Abdul Rahman, Malaysia

I001	Color image retrieval based on refined edge histograms Xiaohui Yang, Jiali Liu, Lijun Cai and <b>Dengfeng Li</b> Henan University, China
I031	An Image Fusion Algorithm Based On Double Exposure Enhancing Dynamic Range <b>Huang Sijie</b> , Gong Xueyi, Chen Fansheng Shanghai Institute of Technical Physics, Chinese Academy of Sciences
I035	Computer image analysis in the quality in procedure for selected carrot varieties <b>Koszela K.</b> , Weres J., Boniecki P, Zaborowicz M., Przybył J., Dach J., Pilarski K., Jańczak D. Poznan University of Life Sciences, Poland
I054	A New Encryption Scheme for Color Images Based on Quantum Chaotic System in Transform Domain <b>Ahmed A. Abd El-Latif</b> , Ning Wang, Jia-Liang Peng, Qiong Li and Xiamu Niu Harbin Institute of Technology
I057	A novel spatial domain details enhancement and compression algorithm for high dynamic range infrared image <b>Zhang Jufeng</b> , Zhang Zhijie, Lei Bo Huazhong Institute of Electro-Optics-Wuhan National Lab for Optoelectronics

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I043	Video reconstruction via online compressed sensing <b>Feng Yan</b> and Dongfang Chen Wuhan University of Science and Technology
I065	Image Inpainting Strategy for Kinect Depth Maps <b>Yao Huimin</b> , Chen Yan, Ge Chenyang Xi'an Jiaotong University
I069	A New Combination of Monocular and Stereo Cues for Dense Disparity Estimation <b>Miao Mao</b> , Kaihuai Qin Tsinghua University
I073	Ionogram Trace Enhancement Based on Image Pixel Connectedness <b>Hongguang Lu</b> , Guangrong Ji, Haiyong Zheng, Zhenwei Zhao, Shaohong He Ocean University of China
I077	Face recognition with partial occlusion <b>Xiao Luan</b> , Bin Fang, Linghui Liu Chongqing University
I088	Signature Verification with Writing Posture Analysis <b>Hsu-Yung Cheng</b> and Chih-Chang Yu National Central University, Taiwan
I093	Relevance of Useful Visual Words in Object Retrieval <b>Siyuan Qi</b> , Yupin Luo Tsinghua University
I095	3D Hand Pose Estimation using Kinect Enhanced with Recovery Method <b>Santawat Thanyadit</b> , Suthep Madarasami King's Mongkut University of Technology Thonburi
I102	Ant Colony Optimization Image Registration Algorithm based on Wavelet Transform and Mutual Information <b>Hong Zhang</b> , Yanfeng Sun, Bing Zhai, Yiding Wang Jilin University
I101	Remote Sensing Image Quality Assessment Based on Fractal Theory <b>Congli Li</b> , Wenjun Lu, Song Xue , Yongchang Shi New Star Research Institute of Applied Technology

**Session II**

**13:00-15:30 Room 2**

**Session Chair:**

Cesar G. Demayo

MSU-Iligan Institute of Technology, Iligan City

I008	Sampling Optimization Method Based on Color Difference Analysis for Printer Characterization Liu Juhua, Yi Yaohua, Su Hai, Yuan Yuan, <b>Miao Minjing</b> School of Printing and Packaging, Wuhan University
I011	Scalable Illumination Robust Face Identification Using Harmonic Representation <b>Cong Xia</b> , Jiansheng Chen, Chang Yang, Jing Wang, Jing Liu, Guangda Su, Gang Zhang Tsinghua University
I013	Multi-Region Level Set Image Segmentation Based on Image Energy Separation Model <b>Xue-Min Yin</b> , Hong Yan, Yu-Hua Yao, Jian-Ping Guo, Chong-Fa Zhong, Zhe Zhang, Yi

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	Wei Astronaut Research and Training Center of China
I014	Magnetic Resonance Image Denoising Using Multiple Filters <b>Danni Ai</b> , Jinjuan Wang, Yuichi Miwa Hitachi (China) Research & Development Corporation
I018	The Design and Implementation of Image Query System Based on Color Feature <b>Yao Xu-Dong</b> , Jia Da-Chun , LiLin Luoyang Institute of Science and Technology
I020	Image Deblurring Based Structural Graph and Nonlocal Similarity Regularization <b>Fangfang Jiang</b> ,Huahua Chen ,Xueyi Ye Hangzhou Dianzi University
I023	Speed-Up Single Image Dehazing Using Double Dark Channels <b>Xuan Jin</b> , Zhi-yong Xu Chinese Academy of Science
I025	FLPI representation of quantum images for log-polar coordinate <b>Mo Wang</b> National University of Defense Technology
I029	An Image Retrieval System for Three-Dimensional Image <b>Chu-Hui Lee</b> , Jin-Shu Lin Chaoyang University of Technology
I109	Multi-modal image registration based on diffeomorphic demons algorithm <b>Chao Tang</b> , Xiaohui Xie, Ruxu Du Chinese Academy of Sciences, China
I118	Convergent Point Positioning Methods for Dual-view Stereo Camera Xiaowei Song, Lei Yang, <b>Yuanzhao Wu</b> Zhongyuan University of Technology
I119	Development of an image processing system in splendid squid quality classification <b>Niyada Masunee</b> , Supapan Chairapat, and Kriangkrai Waiyagan Prince of Songkla University, Songkhla, Thailand
I121	Research on remote sensing image pixel attribute data acquisition method in AutoCAD <b>Liu Xiaoyang</b> , Sun Guangtong, Liu Jun, Liu Hui Institute of Disaster Prevention
I124	The experiments and analysis of several selective video encryption methods <b>Yue Zhang</b> , Cheng Yang, Lei Wang Communication University of China
I131	Research on the Software Development Architecture of Naval Simulation Training Standard Console <b>XU Jing</b> , XU Ming, and Li Tie Simulation Training Center, Dalian Naval Academy

**Session III**

**13:00-15:30 Room 3**

**Session Chair:**

W. Mueller

Poznan University of Life Sciences, Poland

I133	The coarticulatory effect of bi-syllabic words in Chinese <b>Maolin Wang</b> and Shengnan Xiong College of Chinese Language and Culture, Jinan University
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I135	Research on ADC Model Based on Improved Analytic Hierarchy Process Guoqing Huang, Pengfei Wang, and <b>Mingxu Wang</b> Zhengzhou College of Information and Engineering
I136	Applications of Machine Learning to Resource Management in Cloud Computing Chenn-Jung Huang, Yu-Wu Wang, Chih-Tai Guan, <b>Heng-Ming Chen</b> , and Jui-Jiun Jian National Dong Hwa University
I130	A Load-Balancing Based Charging Management Mechanism for Electric Vehicles Chenn-Jung Huang, Hsiu-Hui Liao, Han Wen Tsai, Kai-Wen Hu, <b>Heng-Ming Chen</b> , and Jui-Jiun Jian National Dong Hwa University
I141	Fuzzy Controller Design Using FPGA for Sun and Maximum Power Point Tracking in Solar Array System <b>Basil Hamed</b> and Mohammed El-Maghany Islamic University of Gaza
I145	Digital Currency for India <b>Mahil Carr</b> , Tripti Gupta, and Abhishek Pandey Institute for Development and Research in Banking Technology
I149	Application of a Coupled Simulation-Optimization System Called AnyPLOS in a Cold Foam Production Line Mohammad Amin Jahanpour, <b>Kamran Farnian</b> , and Kourosh Tahouri Central Branch of Islamic Azad University, Tehran, Iran
I150	A New Priority-Sort Based Optimization Algorithm for Integrated Process Planning and Scheduling <b>Ghiath Al Aqel</b> , Muhammad F. Ausaf, Xinyu Li, and Liang Gao Huazhong University of Science and Technology
I166	Single Nucleotide Variant Calling Tools for RNA-Seq <b>Yunqin Chen</b> and Jia Wei AstraZeneca, R&D Information, Shanghai
I169	Missing Value Estimation In DNA Microarrays Using B-Splines <b>Sujay Saha</b> , Kashi Nath Dey, Riddhiman Dasgupta, Anirban Ghose and Koustav Mullick Heritage Institute of Technology, Kolkata
I170	Robustness Analysis of the PI3K/AKT Cell Signaling Module <b>Tianhai Tian</b> and Fuke Wu Monash University
I177	Hemodynamic Changes in Coronary Artery after Stent Implantation Based on Patient-specific Model <b>Feng Gao</b> , Gang Li and Hiroshi Okada Tokyo University of Science
I183	Sequence-based Prediction of Molecular Recognition Features in Disordered Proteins <b>Chun Fang</b> and Hayato Yamana, Tamotsu Noguchi Waseda University
I184	NIM, A Novel Computational Method for Predicting Nuclear-encoded Chloroplast Proteins <b>Jun Ding</b> , <b>Haiyan Hu</b> and Xiaoman L University of Central Florida
I189	Relative Warp Analysis of Parasite-Induced Plasticity in the Shell Shape of the O. quadrasi Edgar Gary Vasallo, Mark Anthony J. Torres and <b>Cesar G. Demayo</b> MSU-Iligan Institute of Technology, Iligan City
I783	Research on extraction of outlines of mandible in forensic individual recognitions <b>L. Sun</b> , Y. Xing, G. Shan, X. He,

**Poster Presentation**  
**13:00-15:30**  
**Room 1, Room 2 & Room 3**

I002	<b>Corner detector using invariant analysis</b> C. Zhu, S. Li, Y. Song, H. Chang, Institute of Automation, China
I032	<b>A fast point spread function for particle in fluorescent images with GPU acceleration</b> Y. Cheng, H. Wang, H. Zhang, Beijing University of Chemical Technology, China
I044	<b>Design of hyperelliptic curve system digital signature in identity authentication</b> L. Wei, Shenyang Aerospace University, China
I143	<b>An efficient query mechanism base on P2P networks</b> X. Wang, Xuzhou Air Force College (China) and China University of Mining and Technology, China; A. Mu, D. Zhao, Xuzhou Air Force College, China
I154	<b>Research of a continuous time model of the decentralized decision-making</b> X. Fang, Lan Zhou University, China
I176	<b>Communication and remote control approaches to road surface carrying system</b> X. Wang, Nanjing Railway Institute of Technology, China; J. Wang, Hebei University of Science and Technology, China
I212	<b>Free-form deformation based non-rigid registration on breast cancer MR imaging</b> L. Zhang, S. Suo, Y. Li, S. Zhang, Shanghai Jiao Tong University, China; X. Lu, South-Central University for Nationalities, China; L. Chen, National Cancer Institute, United States;
I242	<b>Information extraction of wetland vegetation based on remote sensing images and their dynamic changes in yellow</b> X. Fu, Z. Xu, University of Jinan, China
I253	<b>Research on mobile electronic commerce security technology based on WPKI</b> B. Zhang, Chongqing Industry Polytechnic College, China
I261	<b>An image restoration method based on sparse constraint</b> Z. Qiang, X. Chen, Southwest Forestry University, China; H. Liu, Z. Shang, L. Zeng, Kunming University of Science and Technology, China;
I5001	<b>Research on improvement calculating method for surface normal line of 3D model</b> L. Cheng, H. Liu Shenyang Ligong University
I5007	<b>Image super-resolution using DCT interpolation and sparse learning-based method</b> S. S. Reis, G. Bressan Univ. of São Paulo
I5009	<b>Research on the algorithm of automatic branch modeling in 3D model reconstruction from parallel contours</b> Y. Meng Nanjing Normal University



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I6006	<b>A novel color constancy algorithm based on gray-curve regulation</b> H. Guo, Z. Zhou, Y. Tang, J. Cao Xi'an Institute of Optics and Precision Mechanics
I6009	<b>The application of Apriori algorithm in the area of association rules</b> Y. Li Harbin Normal Univ.
I6001	<b>HSWL: an efficient hash-based static wear leveling algorithm</b> L. Gao, Y. Fu, X. Han, H. Zhou Shanghai Jiao Tong University
I6004	<b>Implementation of QR-decomposition based on CORDIC for unitary MUSIC algorithm</b> M. Lounici, X. Luan, W. Saadi Harbin Engineering University
I7005	<b>Research on e-learning services based on ontology theory</b> R. Liu China West Normal University
I7007	<b>Application of the cross-wavelet transforms to time series of solar activity</b> L. Deng Yunnan Astronomical Observatory and Univ. of Chinese Academy of Sciences
I8001	<b>Data dependence pat</b> S. Shi, Q. Zhu Beijing Univ. of Chemical Technology
I8005	<b>Robust Delaunay triangulation for domain with acute angles</b> X. Meng, G. Mei Beihang University
I9001	<b>Experiences on developing digital down conversion algorithms using Xilinx system generator</b> C. Xu, Y. Yuan, L. Zhao Beijing Institute of Technology

**Session IV**

**13:00-15:30 Room 4**

**Session Chair:**

Prof. Charles M. Falco  
University of Arizona, USA

I301	Top-down spatiotemporal saliency detection using spectral filtering W. Li, <b>P. Wang</b> , H. Qiao, Institute of Automation China
I302	Anomaly detection in crowds using a space MRF with incremental updates ChiN. Li, <b>D. Xu</b> ; X. Wu, Shenzhen ; J. Liu, B. Zhang, Hefei Shenzhen Institutes of Advanced Technology China
I307	Moving target detection algorithm based on Gaussian mixture model <b>Z. Wang</b> , D. Kai, X. Zhang Chongqing Univ. of Technology
I401	A visual saliency based method for vehicle logo detection F. Zhang, Y. Shen, <b>H. Chang</b> Institute of Automation

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I406	Study of wavelet packet energy entropy for emotion classification in speech and glottalsignals <b>L. He</b> ; M. Lech, RMIT Univ.; J. Zhang, X. Ren, L. Deng Sichuan Univ. China
I309	A novel multi-object detection method in HSV space M. Tang; H. Li, Y. Wen, <b>L. Tang</b> Yunnan Univ. China
I310	High visual quality anaglyph production Y. Geng, <b>X. Li</b> , W. Guo, L. Wei Shandong Univ.
I311	The short-time spectrum analysis of real-time sampling speech with DSP TMS320VC5416 chip <b>Q. Fan</b> , W. Ren Zhejiang Univ. Ningbo Institute of Technology China
I502	Generating anatomically accurate finite element meshes for electrical impedance tomography B. Yang, C. Xu, M. Dai, F. Fu, <b>X. Dong</b> Fourth Military Medical Univ.
I505	Research on the Software Development Architecture of Naval Simulation Training Standard Console <b>XU Jing</b> , XU Ming, and Li Tie Simulation Training Center, Dalian Naval Academy
I507	Research on ADC Model Based on Improved Analytic Hierarchy Process Guoqing Huang, Pengfei Wang, and <b>Mingxu Wang</b> Zhengzhou College of Information and Engineering
I408	Applications of Machine Learning to Resource Management in Cloud Computing Chenn-Jung Huang, Yu-Wu Wang, Chih-Tai Guan, <b>Heng-Ming Chen</b> , and Jui-Jiun Jian National Dong Hwa University
I407	A Load-Balancing Based Charging Management Mechanism for Electric Vehicles Chenn-Jung Huang, Hsiu-Hui Liao, Han Wen Tsai, Kai-Wen Hu, <b>Heng-Ming Chen</b> , and Jui-Jiun Jian National Dong Hwa University

**Session V**

**13:00-15:30 Room 5**

**Session Chair:**

Prof. Chin-Chen Chang  
Feng Chia University, Taiwan

I311	Fuzzy Controller Design Using FPGA for Sun and Maximum Power Point Tracking in Solar Array System <b>Basil Hamed</b> and Mohammed El-Maghany Islamic University of Gaza
I315	Digital Currency for India <b>Mahil Carr</b> , Tripti Gupta, and Abhishek Pandey Institute for Development and Research in Banking Technology
I321	Application of a Coupled Simulation-Optimization System Called AnyPLOS in a Cold Foam Production Line Mohammad Amin Jahanpour, <b>Kamran Farnian</b> , and Kourosh Tahouri

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	Central Branch of Islamic Azad University, Tehran, Iran
I411	Network traffic classification using a random field model G. Shen, Z. Niu, <b>L. Duan</b> Huazhong Univ. of Science and Technology China
I415	Research of intrusion detection technology based on association rules <b>B. Zhang</b> Chongqing Industry Polytechnic College
I418	A new algorithm for pedestrian detection <b>K. Cheng</b> Nanjing Univ. of Aeronautics and Astronautics China
I511	Accelerating techniques for sparse regularization based tomography reconstruction <b>L. Wang</b> Nanjing Univ. of Science and Technology China
I513	A new method of mapping 3D contours on four-dimensional computed tomography data <b>Z. Duan</b> Nanchang Institute of Technology
I518	An improved evidence based cooperative spectrum sensing algorithm <b>C. Jiang, T. Liu</b> State Grid Electric Power Research Institute China
I519	Research on feature data extraction algorithms of printing Z. Sun, <b>J. Ma</b> Univ. of Science and Technology Beijing China
I418	A storage scheme for the real-time database supporting the on-line commitment H. Dai, Y. Jing, <b>H. Wang</b> Nanjing SAC Rail-Transit Engineering Co., Ltd.
I413	FFT optimization algorithm and realization of MATLAB C. Cui, <b>Q. Zhao</b> Liaoning Shihua Univ. China
I521	A novel algorithm for circular and noncircular signals without knowing the number of sources with Mrla <b>Y. Zeng</b> ;Y. Yang; G. Lu, Northwestern Polytechnical Univ. China
I423	Simulation and analysis of an improved LEACH algorithm in wireless sensor network <b>X. Liu</b> Chongqing Univ. of Technology
I509	Research on registration algorithm of pyramid edge Y. Tao, Y. Wang, <b>W. Guo</b> Dalian International Studies University

**Session VI**

**13:00-15:30 Room 6**

**Session Chair:**

Prof. Xudong Jiang

Nanyang Technological University, Singapore

I329	A New Priority-Sort Based Optimization Algorithm for Integrated Process Planning and Scheduling
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	<b>Ghiath Al Aqel</b> , Muhammad F. Ausaf, Xinyu Li, and Liang Gao Huazhong University of Science and Technology
I331	Single Nucleotide Variant Calling Tools for RNA-Seq <b>Yunqin Chen</b> and Jia Wei AstraZeneca, R&D Information, Shanghai
I335	Missing Value Estimation In DNA Microarrays Using B-Splines <b>Sujay Saha</b> , Kashi Nath Dey, Riddhiman Dasgupta, Anirban Ghose and Koustav Mullick Heritage Institute of Technology, Kolkata
I431	Higher order smooth fitting for the convex cavities in the multiply connected plane domain by multiple functions J. Cao, C. Wan, <b>W. Zhao</b> Dalian Jiaotong Univ. China
I437	Multi-class Markov models for JPEG steganalysis H. Zhang, <b>X. Ping</b> Zhengzhou Information Science and Technology Institute, China
I438	Curvelet-based bilinear interpolation method for low-dose CT B. Meng, H. Jiang, <b>Z. Liu</b> , Z. Wang, Y. Liu, Zhengzhou Univ. of China
I533	The selected examples of the application of computer image analysis in the assessment of environmental quality D. Janczak; P. Lewicki); R. Mazur, P. Boniecki, J. Dach, J. Przybyl, M. Pawlak, K. Pilarski, <b>W. Czekala</b> Poznan Univ. of Life Sciences
I537	IT application: analysis and design of container collecting process on terminal W. Zhong, S. Chen, <b>Y. Wang</b> Tianjin Univ. of Technology
I539	Embedded mobile farm robot for identification of diseased plants S. S. Sadistap, B. A. Botre, CEERI, Pilani, H. Pandit, Chandrasekhar, <b>A. Rao</b> Birla Institute of Technology and Science
I541	Design and implementation of distributed information retrieval system <b>H. Liu</b> Chongqing Industry Polytechnic College
I439	Sparse representation for image classification by using feature dictionary W. Zhang, J. Li, <b>Y. Yang</b> Shanghai Jiao Tong University
I436	Spatial correlogram between codewords: an effective representation for image classification B. Xie, H. Zhang, <b>J. Yu</b> Beijing Jiaotong Univ. (China)
I339	Efficient method of image edge detection based on FSVM A. Cai, <b>X. Xiong</b> Jiangxi Univ. of Technology
I532	Application of mathematical morphology in surface detection of infrared image for plume B. Qiang, Y.-N. Hu, H.-H. Liu, <b>X. C. Zhang</b> Tai Yuan Satellite Launch Ctr. (China)
I435	Salient region detection for phytoplankton microscopic image J. Chu, G. Li, H. Zheng, K. Yu, <b>H. Lu</b> Ocean Univ. of China
I538	Optical augmented reality assisted navigation system for neurosurgery teaching and

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planning H.-Q. Wu; X.-Y. Geng; L. Wang; Y.-P. Zhang; K. Jiang; L.-M. Tang; G.-M. Zhou; <b>J.-C. Dong</b> Nantong Univ. (China)
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<b>Coffee Break</b>	<b>15:30-16:00</b>
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**Session VII**  
**16:00-18:30 Room 1**

**Session Chair:**  
Cong Xia  
Tsinghua University

I181	Analyzing Shape of Faces of Hypertensive and Non-Hypertensive Males Using Geometric Morphometric Methods Christine Cherry E. Solon, Mark Anthony J. Torres, and <b>Cesar G. Demayo</b> MSU-Iligan Institute of Technology, Iligan City
I192	Landmark-Based Geometric Morphometrics in Describing Facial Shape of the Sama-Banguingui Tribe from the Philippines Olive S. Anies, Mark Anthony J. Torres, Muhmin Michael Manting, and <b>Cesar G. Demayo</b> MSU-Iligan Institute of Technology, Iligan City
I193	Prediction of the Binding Affinities of PSD95 PDZ Domain in Complex with the CRIPT Peptide <b>Junmei Wang</b> University of Texas Southwestern Medical Center
I198	Image enhancement scheme based on nonsubsampling contourlet transform <b>H. Song</b> The MPS Quality Supervision and Testing Ctr. of Security Products for Computer Information System, China
I199	A gradient-based adaptive nonlocal means algorithm for image denoising <b>Q. Zhang</b> , L. Luo, Z. Gui, Y. Li, Southeast University, China
I201	An effective preprocessing method for finger vein recognition J. Peng, <b>Q. Li</b> , N. Wang, A. A. Abd El-Latif, X. Niu, Harbin Institute of Technology, China
I209	An improved visual enhancement method for color images <b>W. Wang</b> , B. Zhang, Northeastern University, China
I213	Study on torpedo fuze signal denoising method based on WPT J. Zhao, <b>C. Sun</b> , T. Zhang, Z. Ren, Naval University of Engineering, China
I216	Local thresholding de-noise speech signal <b>H. Luo</b> , Guangdong University of Foreign Studies, China
I217	Research on encoder of digital channelized reconnaissance receiver <b>H. Jiang</b> , P. Tang, W. Guan, Beijing Institute of Technology, China
I222	Content based image retrieval using extended Gaussian Lie group spatiogram similarity

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	F. Cheng, <b>X. Yu</b> , Z. Wang, D. Li Huazhong University of Science and Technology, China
I229	Knowledge set theory: a knowledge representation method based on extenics <b>H. Li</b> , Dalian Jiaotong University , China
I232	Research of intelligent recommendation for mobile reading <b>Q. Li</b> , Zhejiang University of Technology, China
I235	A fuzzy approach for mining association rules in a probabilistic database B. Pei, <b>D. Chen</b> , S. Zhao, H. Chen, Key Lab. of Data Engineering and Knowledge Engineering (China), Renmin University of China (China), and New Star Research Institute of Applied Technology, China
I238	Block adaptive scalar-vector quantization for SAR raw data compression S. Zeng, Y. Xie, Y. Chen, <b>H. Wang</b> , Southwest University for Nationalities, China
I782	Evaluation of cabin design based on the method of multiple attribute group decisionmaking <b>X. Li</b> , L. Lv, P. Li, Harbin Engineering University , China

**Session VIII**  
**16:00-18:30 Room 2**

**Session Chair:**  
Basil Hamed  
Islamic University of Gaza

I233	Performance of DOR measurement in China CE'2 navigation <b>S. Han</b> , G. Tang, L. Chen, M. Wang, Beijing Aerospace Control Ctr. , China
I240	Select algorithm for local certificate repository of self-organized key management scheme in ad hoc networks S. Liu, <b>Z. Zhang</b> , Weifang University , China
I249	Object occlusion and object removal detection <b>Y. J. Chai</b> , S. W. Khor, Y. H. Tay, University Tunku Abdul Rahman, Malaysia
I251	Evaluation of cabin design based on the method of multiple attribute group decisionmaking <b>X. Li</b> , L. Lv, P. Li, Harbin Engineering University , China
I255	A research on the parameters of fractional-order $PI\lambda D\mu$ controller C. Peng, <b>Z. Qi</b> , Nanjing University of Science and Technology, China
I259	An improved mechanism for reversible watermarking of images M. Ishtiaq, <b>B. Haider</b> , F. Ali, S. Khan, COMSATS Institute of Information Technology, Pakistan
I263	Research on heterogeneous data query and sharing mode based on XML <b>Y. Sang</b> , Q. Mu,

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	Xi'an University of Science and Technology, China
I266	Dynamic range optimization by flexible local contrast enhancement using luminance map <b>C.-H. Lin</b> , S.-Y. Lin, T.-H. Chen, National Chiayi University, Taiwan
I271	Multi-exposure images of wavelet transform fusion <b>J. Xu</b> , Y. Huang, J. Wang, Hunan University of Science and Technology, China
I272	A study of the security technology and a new security model for WiFi network <b>J. Huang</b> , Hunan City University , China
I275	An intelligence monitoring system for abnormal water surface based on mutation particle swarm optimization <b>Y. Wu</b> , Guizhou Minzu University , China
I276	Optimal decision making modeling for copper-matte Peirce-Smith converting process by means of data mining Y. Song, X. Peng, Y. Tang, <b>Z. Hu</b> , Central South University , China
I280	The mass remote sensing image data management based on Oracle InterMedia X. Zhao, <b>S. Shi</b> , Beijing University of Civil Engineering and Architecture, China
I281	Locating of the earth fault of the single-phase at the tree distribution network <b>L.-P. Guo</b> , Inner Mongolia University of Technology, China
I285	Integrated lossy and lossless compression with LSB Insertion technique in steganography <b>Y.-F. Tan</b> , W.-N. Tan, X. Guo, Multimedia University, Malaysia
I779	Load balancing strategy based on network load capacity W. Gao, M. Wang, W. Tian, Q. Tian, <b>Z. Li</b> , Changchun Institute of Engineering Technology, China

**Session IX**

**16:00-18:30 Room 3**

**Session Chair:**

Santawat Thanyadit

King's Mongkut University of Technology Thonburi

I283	A web-based 3D medical image collaborative processing system with videoconference S. Luo, J. Han, <b>Y. Huang</b> , Beihang University , China
I288	A character segmentation method based on character structural features and projection <b>C. Ren</b> , J. Song, Heilongjiang University , China
I289	Modeling 3D faces from samplings via compressive sensing <b>Q. Sun</b> , Y. Tang, P. Hu, Shandong University , China
I293	Face detection and feature points location and tracking in video sequence <b>X. Zhang</b> , W. Zhang,

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	Shanghai University , China
I295	Identification of physical parameters of cereal grain using computer image analysis and neural models <b>K. Nowakowski</b> , B. Raba, R. J. Tomczak, P. Boniecki, S. Kujawa, P. J. Nowak, R. Matz, Poznan University of Life Sciences, Poland
I296	A network identity authentication protocol of bank account system based on fingerprint identification and mixed encryption L. Zhu, <b>J. Liu</b> , Shanghai Jianqiao College, China
I299	Depth map generation from geometry and motion <b>Q. Li</b> , C. Ge, P. Ren, H. Yao, Xi'an Jiaotong University , China
I701	Study of texture stitching in 3D modeling of lidar point cloud based on per-pixel linear interpolation along loop line buffer J. Xu, <b>H. Liang</b> Central South University (China)
I707	Privacy-preserving periodical publishing for medical information <b>H. Jin</b> , S. Ju, S. Liu, Jiangsu University , China
I714	A novel load balancing method for hierarchical federation simulation system <b>X. Bin</b> , T. Xiao, Tsinghua University (China) and Academy of Equipment, China
I719	Fusing global and local features for face verification J. Zhou, B. Xiao, C. Wang, X. Cai, <b>X. Chen</b> , Institute of Automation, China
I723	IT system supporting acquisition of image data used in the identification of grasslands <b>W. Mueller</b> , K. Nowakowski, R. J. Tomczak, S. Kujawa, J. Rudowicz-Nawrocka, P. Idziaszek, A. Zawadzki, Poznan University of Life Sciences, Poland
I745	A MapReduce scheme for image feature extraction and its application to man-made object detection <b>F. Cai</b> , H. Chen, National University of Defense Technology, China
I755	Color image quality assessment combining saliency and FSIM <b>A. Li</b> , X. She, Q. Sun, Harbin Power Vocational Technology College, China
I761	Global motion estimation combining with motion segmentation Y. Zhao, X. Fan, <b>S. Liu</b> , Central South University , China
I770	Color correction for color vision measurement system <b>Z. Zhu</b> , Y. Zhang, H. Tu, X. Jin, East China Jiaotong University , China

**Session X**

**16:00-18:30 Room 4**

**Session Chair:**

Prof. Yulin Wang  
Wuhan University, China



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I551	Image Inpainting Strategy for Kinect Depth Maps <b>Yao Huimin</b> , Chen Yan, Ge Chenyang Xi'an Jiaotong University
I554	A New Combination of Monocular and Stereo Cues for Dense Disparity Estimation <b>Miao Mao</b> , Kaihuai Qin Tsinghua University
I557	Ionogram Trace Enhancement Based on Image Pixel Connectedness <b>Hongguang Lu</b> , Guangrong Ji, Haiyong Zheng, Zhenwei Zhao, Shaohong He Ocean University of China
I559	Salient Region Detection for Phytoplankton Microscopic Image <b>Jingjing Chu</b> , Guangrong Ji, Haiyong Zheng, Kun Yu, Hongguang Lu Ocean University of China
I453	Face recognition with partial occlusion <b>Xiao Luan</b> , Bin Fang, Linghui Liu Chongqing University
I457	Signature Verification with Writing Posture Analysis <b>Hsu-Yung Cheng</b> and Chih-Chang Yu National Central University, Taiwan
I467	A swaying object detection algorithm <b>Shidong Wang</b> , Jianzhong Rong, Jian Wang University of Science and Technology of China
I469	Multi-class Markov Models for JPEG Steganalysis <b>Hao Zhang</b> , Xijian Ping Zhengzhou Information Science and Technology Institute
I355	Image Super-Resolution using DCT Interpolation and sparse learning-based method <b>Saulo R. S. Reis</b> and Graça Bressan University of São Paulo, Brazil
I359	Image parameters for maturity determination of a composted material containing sewage sludge S. Kujawa, K. Nowakowski, R. J. Tomczak, P. Boniecki, <b>J. Dach</b> Poznan Univ. of Life Sciences
I358	Human action recognition using integrated model Y. Yi, <b>Y. Lin</b> Sun Yat-sen University of China
I379	Fabric defect detection based on annular Gaussian band-pass filter R. Han, <b>J. Su</b> Beijing Institute of Fashion Technology
I381	A novel method for detecting and tracking vehicles in traffic-image sequence J. Xu, G. Wang, <b>F. Sun</b> Ocean University of China
I372	Finger-vein and fingerprint recognition based on a feature-level fusion method J. Yang, <b>B. Hong</b> Civil Aviation Univ. of China
I575	Bispectrum for welds defects detection from radiographic images S. Saber, <b>G. I. Selim</b> Arab Academy for Science and Technology
I576	Vehicle detection based on the use of shadow region and edge S. Jeong, S. Kang, J. Kim Sungkyunkwan University of Korea
I574	Design and application of PDF model for extracting

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	<b>L. Xiong</b> Jiangxi Blue Sky University
I588	Strong and weak stability of bipartite ranking algorithms W. Gao; <b>Y. Zhang</b> Univ. of Liverpool

**Session XI**  
**16:00-18:30 Room 5**

**Session Chair:**

Kamran Farnian

Central Branch of Islamic Azad University, Tehran, Iran

I801	Use of artificial neural networks in the identification and classification of tomatoes M. Zaborowicz, P. Boniecki, K. Koszela, J. Przybył, R. Mazur, S. Kujawa, <b>K. Pilarski</b> Poznan University of Life Sciences
I807	Algorithm of semicircular laser spot detection based on circle fitting Z. Wang, R. Xu; <b>B. Hu</b> Xi'an Institute of Optics and Precision Mechanics
I805	Manifold based methods in facial expression recognition <b>K. Xie</b> Univ. of Sussex
I802	Research on more features extraction and quick recognition algorithm of frontal face based on robustness X. Lv, H. Zhao, <b>Y. Dang</b> Shandong University
I822	Object-oriented Markov random model for classification of high resolution satellite imagery L. Hong; C. Liu, K. Yang, Y; M. Deng Central South University
I811	Multiresolutional graph cuts for brain extraction from MR images Y.-S. Chen; L.-F. Chen; <b>Y.-T. Wang</b> National Chiao Tung University
I831	Video compressive sensing with redundant dictionary T. Li, <b>X. Wang</b> Beijing Institute of Technology
I833	Reconstruction of bidirectional predicted residual for stereoscopic video based on compressed sensing J. Yu, S. Wang, Y. Lu, X. Zhang, <b>X. Lu</b> Jilin University
I835	Research and design of a new model for P2P live streaming system Y. Li, L. Yang, <b>H. Liu</b> North China Institute of Aerospace Engineering
I836	Route-based dynamic traffic assignment with mesoscopic simulation M. Meng, C. Shao, H. Li, X. Ji, <b>B. Wang</b> Beijing Jiaotong University
I837	Research on the miniaturization of embedded Linux system <b>Y.-J. Wang</b> Chinese People's Armed Police Force Academy
I838	Design of the common framework for LIN low level driver

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	F. Luo, <b>Y. Lin</b> Tongji University
I839	A resources monitoring architecture for P2P file-sharing systems W. Wang, X. Chen, <b>H. Wang</b> Sichuan University
I831	A new dynamic modeling method to fixed machined joint interface H. Tian, B. Li, K. Mao, <b>P. Gu</b> Huazhong Univ. of Science and Technology
I815	Experiences on developing digital down conversion algorithms using Xilinx system generator B. Xu, Y. Yuan, <b>L. Zhao</b> Beijing Institute of Technology
I817	A CFAR algorithm for layover and shadow detection in InSAR images based on kernel density X. Qin, S. Zhou, H. Zou, <b>Y. Ren</b> National Univ. of Defense Technology
I834	Optimization of a finite difference method for nonlinear wave equations <b>M. Chen</b> Chaohu College

**Session XII**

**16:00-18:30 Room 6**

**Session Chair:**

Sujay Saha

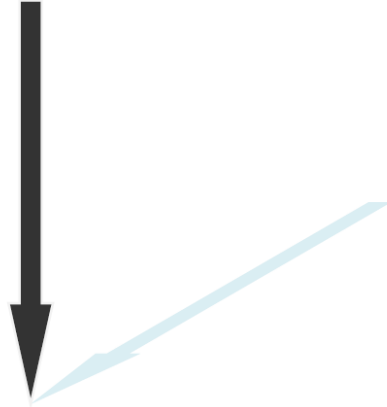
Heritage Institute of Technology, Kolkata

I341	Robustness Analysis of the PI3K/AKT Cell Signaling Module Tianhai Tian and <b>Fuke Wu</b> Monash University
I347	Hemodynamic Changes in Coronary Artery after Stent Implantation Based on Patient-specific Model <b>Feng Gao</b> , Gang Li and Hiroshi Okada Tokyo University of Science
I348	Edge detection of mineral water bottle image based on NSCT and Canny algorithm <b>A. Lu</b> Anhui Institute of Optics and Fine Mechanics
I349	Identification of selected apple pests based on selected graphical parameters P. Boniecki, K. Koszela, H. Piekarska-Boniecka, K. Nowakowski, J. Przybył, M. Zaborowicz, B. Raba, <b>J. Dach</b> Poznan Univ. of Life Sciences
I441	The design of infrared information collection circuit based on embedded technology H. Liu, <b>Y. Zhang</b> Wuhan University
I446	Engineering a fully GPU-accelerated H.264 encoder B. Li, <b>Y. S. Deng</b> Tsinghua University
I542	An MPEG-21-driven multimedia adaptation decision-taking engine based on constraint satisfaction problem X. Feng; R. Tang; Y. Zhai ;Y. Feng, <b>B. Hong</b>

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	Ocean Univ. of China
I546	Research on graphical workflow modeling tool <b>H. Gu</b> Chongqing Industry Polytechnic College
I548	PDA-based research in design and development of pretreatment operation system on field data collection results L. Wang, <b>D. He</b> Taiyuan Univ. of Technology China
I449	The EEG processing algorithm based on improved ICA X. Sun, S. Pang; <b>M. Song</b> Qingdao Sinto Machinery Co., Ltd. (China)
I447	The properties of a homotopy path of nonlinear complementarity problems X. Wang; <b>X. Jiang</b> Jilin Business and Technology
I545	Equivalence of weak Pareto optima for multiobjective optimization problems with cone constrains M. Cao, <b>X. Zhao</b> Beihua University
I345	Research on image segmentation algorithm based on fuzzy clustering <b>B. Qu</b> Chongqing Industry Polytechnic College
I445	Object detection based on LHOG feature matching X. Huang, <b>Y. Luo</b> Tsinghua University
I444	Status recognition of isolator based on SmartGuard W. Wang, B. Wang, Z. Wang, L. Li, <b>J. Zhang</b> Shandong Electric Power Research Institute

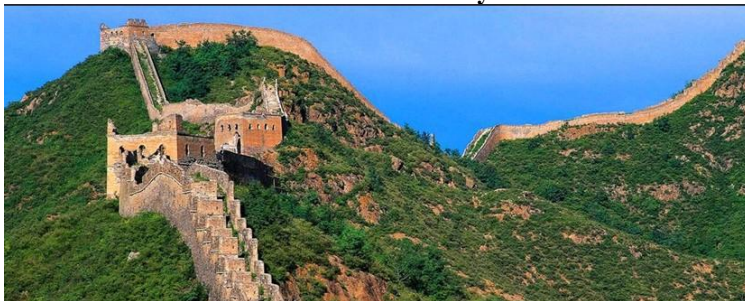
<i>Award Ceremony</i>	<b>19:00-19:15</b>
<i>Dinner</i>	<b>19:15-20:30</b>



**One-day tour**  
**One-day Tour on April 23, 2013(Tuesday)**  
**08:00-18:00 One-day Tour in Beijing (Free of Charge)**



**The Forbidden City**



**The Great Wall**



**Summer Palace**

**Please register at the registration counter, and the One Day Tour Coupon will be given.**

## Instructions for Oral Presentations

### **Devices Provided by the Conference Organizer:**

Laptops (with MS-Office & Adobe Reader)  
Projectors & Screen  
Laser Sticks

### **Materials Provided by the Presenters:**

PowerPoint or PDF files Duration of each Presentation (Tentatively):  
Regular Oral Session: 8-12 Minutes of Presentation

Keynote Speech: 40 Minutes of Presentation 5 Minutes of Q&A

## Conference Venue

### 北京金码大酒店(Jinma Hotel Beijing)

<http://www.jmdjd.com.cn/>

Located on the northeast end of the intersection between Xueyuan Road and Tsinghua East Road, a great rendezvous of higher-education institutions, Jinma Hotel, in the center of Zhongguancun Science Park, is only a kilometer away from Xueyuan flyover on the North 4th Ring Road and two kilometers away from the National Stadium (Bird's Nest). Situated at the overlap areas between Zhongguancun and Olympic Village and sporting a height of more than one hundred meters, the hotel is a landmark building on Xueyuan Road.

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[Tel:+86-10-62328899](tel:+86-10-62328899)

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