

# **2013 IEEE International Conference on Signal and Image Processing Applications**

**(ICSIPA 2013)**

**Melaka, Malaysia  
8-10 October 2013**



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## IEEE ICSIPA 2013 Program Schedule

### Program in Chronological Order

Tuesday, 8 October 2013

Image Acquisition: 14:00 -15:40

Meeting  
Room I

14:00-14:20

Day1 IA  
A1.1

#### **A DCT-Domain JND Model Based on Visual Attention for Image's**

*Dongdong Zhang, Lijing Gao, Di Zang, Yaoru Sun (Tongji University, CHINA)*

14:20-14:40

Day1 IA  
A1.2

#### **Improving Spatial Resolution for EIT Reconstructed Images through Measurement Strategies''7**

*Renee K. Y. Chin (Universiti Malaysia Sabah, MALAYSIA), Trevor A. York (University of Manchester, UNITED KINGDOM)*

14:40-15:00

Day1 IA  
A1.3

#### **Simulation of Intrinsic Resolution of Scintillation Camera in Monte Carlo Environment''33**

*Xianling Dong, Wira Hidayat Mohd Saad, Wan Azizun Wan Adnan, Abd Jalil Nordin, M. Iqbal Sarip (Universiti Putra Malaysia, MALAYSIA), Suhairul Hashim (Universiti Teknologi Malaysia, MALAYSIA), Nor Pai'za Mohd. Hassan (Agensi Nuklear Malaysia, MALAYSIA).*

15:00-15:20

Day1 IA  
A1.4

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*S. F. Md Ali (German Malaysian Institute, MALAYSIA), D. Xianling, A. S. Muhammad Noor, F. Z. Rokhani, M. I. Saripan (Universiti Putra Malaysia, MALAYSIA) and S. Hashim (Universiti Teknologi Malaysia, MALAYSIA )*

15:20-15:40

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A1.5

#### **License Plate Localization using a Naïve Bayes Classifier''42**

*Alfian Abdul Halin, Nurfadhlina Mohd Sharef, Azrul Hazri Jantan, Lili Nurliyana Abdullah (Universiti Putra Malaysia, MALAYSIA)*

Multi-View Image Processing: 14:00 - 15:40

Meeting  
Room II

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A1.1

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*Masao Shimizu (Nihon University, JAPAN)*



14:20-14:40

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14:40-15:00

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A1.3**Depth Image Layers Separation (DILS) Algorithm of Image View Synthesis based on Stereo Vision"**83*Nurulfajar Abd Manap (Universiti Teknikal Malaysia Melaka, MALAYSIA), John J Soraghan, Lykourgos Petropoulakis (University of Strathclyde, UNITED KINGDOM)*

15:00-15:20

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A1.4**A Spatio-temporal Inpainting Method for Kinect Depth video"**89*Dongdong Zhang, Ye Yao, Di Zang, Yanyu Chen (Tongji University, CHINA)*

15:20-15:40

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Signal Processing 1: 14:00 - 15:40

Meeting  
Room III

14:00 - 14:20

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14:20-14:40

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A1.2**Filter Design for Synthesis of Musical Notes: A Multidimensional feature-based approach"**328*Shailesh Ramamurthy, Mohan Raghavan (Motorola Home, Bangalore INDIA)*

14:40-15:00

Day1 SP1  
A1.3**Capacity Study of lithium ion Battery for Hybrid Electrical Vehicle (HEV).A Simulation Approach"**334*Chelladurai Sinkaram, Vijanth S. Asirvadam and Nursyarizal Bin Mohd Nor (Universiti Teknologi PETRONAS, MALAYSIA)*



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Vinay Kumar Pamula (UCEK, JNTUK, INDIA), Srinivasa Rao Vempati (Anurag Engineering College, INDIA), Habibulla Khan (KL University, INDIA) and Anil Kumar Tipparti (SR Engineering College, INDIA)

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Haryati Jaafar (Universiti Sains Malaysia, MALAYSIA)

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Sabahaldin A. Hussain, Sami M. Gorashi, (OIU, SUDAN)

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Ahsan Raza Sheikh, Sarina Mansor, Mohammad Faizal Ahmad Fauzi, Mohd Haris Lye Abdullah (Multimedia University, MALAYSIA)



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Muhammad Suzuri Hitam (Universiti Malaysia Terengganu, MALAYSIA),  
Suraya Abu Bakar (University of Malaya, MALAYSIA), Wan Nural Jawahir Hj.  
Wan Yussof (Universiti Malaysia Terengganu, MALAYSIA)

16:20 - 16:40

Day1 PR  
A2.3**Covered Mouth Detection for Yawning"<sup>3</sup> ;**

Masrullizam Mat Ibrahim, John S Soroghan, Lykourgos Petropoulakis  
(University of Strathclyde, UNITED KINGDOM)

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Hayriye Korkmaz (Marmara University, TURKEY), Sezgin Alsan (Istanbul  
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Himanshu Agarwal, Balasubramanian Raman (Indian Institute of Technology  
Roorkee, INDIA), Pradeep K. Atrey (The University of Winnipeg, CANADA)

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Day1 SSB  
A2.2**Classification of Iris regions using Principal Component Analysis and Support Vector Machine"<sup>3</sup>56**

Nor'aini A.J., Azilah S.(Universiti Teknologi Mara, MALAYSIA) Rohilah S.  
(Stamford College, MALAYSIA)

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Zaheera Zainal Abidin (Universiti Teknikal Malaysia Melaka, MALAYSIA);  
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Malaysia Melaka, MALAYSIA))



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*Shailesh Ramamurthy (Arris - formerly Motorola Home, Bangalore)*

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M2.1

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*Nuhu Aliyu Shuaibu, Ibrahima Faye, Aamir Saeed Malik (Universiti Teknologi PETRONAS, MALAYSIA) and Mohammed Talal Simsim (Umm Al-Qura University, Makkah, S.ARABIA)*

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*Madjid Maidi, Marius Preda, Sirisilp Kongsilp, (Telecom SudParis / Institut Mines-Telecom, FRANCE) and Matthew N. Dailey (Asian Institute of Technology, THAILAND)*

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*Michael Tornow, Ayoub Al-Hamadi, Vinzenz Borrmann (Otto-von-Guericke University, GERMANY)*

Day2 OT  
M2.3

12:00-12:20

Day2 OT  
M2.4

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*Sanjay Saini, Dayang Rohaya Bt Awang Rambli, Suziah Bt Sulaiman, M Nordin B Zakaria (Universiti Teknologi PETRONAS, MALAYSIA)*

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*Nur Baiti Zahir, Rosdiyana Samad, Mahfuzah Mustafa (Universiti Malaysia Pahang, MALAYSIA)*



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<i>Chee Yen Mei (KDU University College, MALAYSIA) Ahmad Zuri Sha'ameri (Universiti Teknologi Malaysia, MALAYSIA)</i>		
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14:20 - 14:40	<b>A Video Steganography Attack Using Multi-Dimensional Discrete Spring</b>	Day2 ICC1 A1.3

**Transform"3: 4**

Aaron Sharp, Qilin Qi (University of Nebraska, USA), Yaoqing (Lamar) Yang, Dongming Peng and Hamid Sharif (University of Nebraska-Lincoln, USA)

14:20 - 14:40

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A1.4**Modified Hopfield Neural Network Algorithm (MHNNA) for TSS Mapping in Penang Strait, Malaysia"3: 9**

Ahmed Asal Kzar, M. Z. MatJafri, H. S. Lim (Universiti Sains Malaysia, MALAYSIA) and Kussay N. Mutter (Al-Mustansiriya University Baghdad, IRAQ)

Human Gait Analysis: 15:40 -17:00

Meeting  
Room I

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Yona Falinie Abdul Gaus, Farrah Wong, Renee Ka Yin Chin, Rosalyn R Porle, Lim Pei Yi, Ali Chekima (Universiti Malaysia Sabah, MALAYSIA)

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Albert K. Chong (University of Southern Queensland, AUSTRALIA) and Jasim Ahmed Ali AL-Baghdadi (Technical College – Baghdad, IRAQ)

16:20 - 16:40

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Jasim Ahmed Ali AL-Baghdadi (Technical College – Baghdad, IRAQ), Albert K. Chong (University of Southern Queensland, AUSTRALIA), Peter Milburn and Richard Newsham-West (Griffith University, AUSTRALIA)

16:40 - 17:00

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K.B. Low , U.U. Sheikh (Univeriti Teknologi Malaysia, MALAYSIA)

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Meeting  
Room II

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Thanikaiselvan V and Arulmozhivarman P (VIT University, INDIA)



16:00 - 16:20

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16:20 - 16:40

Day2 WTA  
A2.3**Experimental approach on thresholding using reverse biorthogonal wavelet decomposition for eye image"56;***Zaheera Zainal Abidin (Universiti Teknikal Malaysia Melaka, MALAYSIA), Mazani Manaf (University Teknologi MARA, MALAYSIA), Abdul Samad Shibghatullah (Universiti Teknikal Malaysia, MALAYSIA)*

16:40 - 17:00

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Meeting  
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16:00 - 16:20

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A2.2**Routing protocols performance analysis for scalable video coding (SVC) transmission over mobile ad-hoc networks"3; 9***Olfa Ben Rhaïem and Lamia Chaari Fourati (Sfax National Engineering School Tunisia, TUNISIE)*

16:20 - 16:40

Day2 ICC2  
A2.3**H.264/SVC scalability performance analysis"425***Olfa Ben Rhaïem and Lamia Chaari Fourati (Sfax National Engineering School Tunisia, TUNISIE)*

16:40 - 17:00

Day2 ICC2  
A2.4**Multiview Plus Depth Video Using High Efficiency Video Coding Method***Norul Uyuun Mohd Noor, Hezerul Abdul Karim, Nor Azhar Mohd Arif ~~AWICEJ~~ (Multimedia University, MALAYSIA) and Aduwati Sali (Universiti Putra Malaysia, MALAYSIA)*



Thursday, 10 October 2013

Invited Speaker: 09:10 -10:30

09:10-09:50

Day3 INVS  
M1.1

**Efficient Fully Bayes Spatial Prediction based on Gaussian Markov Random Fields for Mobile Sensor Networks N/A**

*Sarat Dass, Yunfei Xu, Jongeun Choi and Tapabrata Maiti (Michigan State University, USA)*

09:50-10:30

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M1.2

**Image processing techniques for high speed camera-based free-field optical communication 384**

*Dr Gabriel Pablo Nava (NTT Communication Science Laboratories, JAPAN)*

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Meeting  
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Day3 BIP  
M2.1

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*Kok Swee Sim, Mohsen Esmailinia, Sze Siang Chong (Multimedia University, MALAYSIA)*

11:20-11:40

Day3 BIP  
M2.2

**Lesion Border Detection in Dermoscopy Images Using Bilateral Filter"587**

*Alaa Al-abayechi (Multimedia University, MALAYSIA), Rajasvaran Logeswaran (Nilai University, MALAYSIA); Xiaoning Guo, Wooi Haw Tan (Multimedia University, MALAYSIA)*

11:40-12:00

**Automated Quantification and Classification of Malaria Parasites in Thin Blood Smears"58;**

*Zazilah May, Siti Sarah Azreen Mohd Aziz and Rabi'ahatuladawiah Salamat (Universiti Teknologi PETRONAS, MALAYSIA)*

Day3 BIP  
M2.3

12:00-12:20

Day3 BIP  
M2.4

**An Adaptive Threshold Method for Mass Detection in Mammographic Images"596**

*Mohamed Meselhy Eltoukhy and Ibrahima Faye (Universiti Teknologi PETRONAS, MALAYSIA)*

12:20-12:40

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M2.5

**Pupillary Behavior in Positive and Negative Emotions"59;**

*Areej Babiker, Ibrahima Faye, Aamir S Malik (Universiti Teknologi Petronas, MALAYSIA)*



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Object Detection & Recognition: 11:00 - 12:40		Meeting Room II
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	<b>A Face Recognition system based on Opposition Particle Swarm Optimization (OPSO) and Support Vector machine''639</b> <i>Mohammed Abdulameer, Siti Norul Huda Sheikh Abdullah, Zulaiha Ali Othman (Universiti Kebangsaan Malaysia, MALAYSIA)</i>	
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*Yan Ma, Rui Wang and Jinxiang Du (Northwestern Polytechnical University, CHINA)*

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M2.3

**Voronoi Cell Geometry Based Dynamic Fractional Frequency Reuse for OFDMA Cellular Networks"657**

*Rahat Ullah, Norsheila Fisal, Hashim Safdar, Wajahat Maqbool, Zubair Khalid and A.S. Khan (Universiti Teknologi Malaysia, MALAYSIA)*

12:00 - 12:20

Day3 SPC  
M2.4

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*Saleh A. Alawsh and Ali H. Muqaibel (King Fahd University of Petroleum & Minerals, SAUDI ARABIA)*

12:20-12:40

Day3 SPC  
M2.5

**Wavelet Based Cepstral Coefficients for Neural Network Speech Recognition"669**

*Tarmizi Adam, Md Sah Salam (Universiti Teknologi Malaysia, MALAYSIA), Teddy Surya Gunawan (International Islamic University Malaysia, MALAYSIA)*

Tutorial 1: 14:00 -17:00

Meeting  
Room I

**SciLab**

*Authors*

Tutorial 2: 14:00 -17:00

Meeting  
Room III

**Multimedia Authentication over Noisy Channels**

*Dr. Ing. Obaid Ur-Rehman (University of Siegen, GERMANY)*