

IEEE ISSPIT 2009 Technical Program

(Location: Sheikh Zayed Center at AUST Campus, Ajman)

Monday, December 14	Tuesday, December 15	Wednesday, December 16
8:00-9:00 am Registration		
9:00-10:00 am Opening Session (Hall 1)	9:00-10:00 am Plenary Session II (Hall 1)	9:00-10:00 am Plenary Session III (Hall 1)
10:00-10:30 am Coffee Break		
10:30-11:30 am Plenary Session I (Hall 1)	10:30 am-12:10 pm Technical Sessions <i>D2M1: Adaptive Filters I</i> (Hall 6) <i>D2M2: Image Processing II</i> (Hall 7) <i>D2M3: Communications II</i> (Hall 8)	10:30 am-12:10 pm Technical Sessions <i>D3M1: Image and Video Processing</i> (Hall 6) <i>D3M2: DSP and Digital Filters</i> (Hall 7) <i>D3M3: Networks</i> (Hall 8)
12:10-1:40 pm Lunch Break (Halls 2 and 3)		
1:40-3:00 pm Technical Sessions <i>D1A1: Communications I</i> (Hall 6) <i>D1A2: Watermarking</i> (Hall 7) <i>D1A3: Speech Coding</i> (Hall 8)	1:40-3:00 pm Technical Sessions <i>D2A1: Advanced Signal Processing in Nondestructive Testing I</i> (Hall 4) <i>D2A2: Biomedical I</i> (Hall 6) <i>D2A3: Image Processing III</i> (Hall 7) <i>D2A4: Adaptive Filters II</i> (Hall 8)	1:40-3:00 pm Technical Sessions <i>D3A1: Speech Processing</i> (Hall 4) <i>D3A2: DSP Implementations</i> (Hall 6) <i>D3A3: Localization Algorithms</i> (Hall 7) <i>D3A4: Image Processing and Interfaces</i> (Hall 8)
3:00-3:30 pm Coffee Break		
3:30-4:50 pm Technical Sessions <i>D1A4: Information Technologies</i> (Hall 6) <i>D1A5: Image Processing I</i> (Hall 7) <i>D1A6: Speech-Audio Processing</i> (Hall 8)	3:30-4:50 pm Technical Sessions <i>D2A5: Advanced Signal Processing in Nondestructive Testing II</i> (Hall 4) <i>D2A6: Bioinformatics</i> (Hall 6) <i>D2A7: Radar Processing</i> (Hall 7) <i>D2A8: Communications III</i> (Hall 8)	3:30-4:50 pm Technical Sessions <i>D3A5: Audio Processing</i> (Hall 6) <i>D3A6: Biometrics</i> (Hall 7) <i>D3A7: Sensor Networks</i> (Hall 8)
8:00-10:00 pm Banquet Dinner	8:00-10:00 pm Banquet Dinner	

Monday, December 14, 2009

Opening Session

Time and Place: Monday, 9:00-10:00 am; Hall 1, Sheikh Zayed Center

Session Chair: **Eweda I. Eweda**
Ajman University of Science & Technology, UAE
ISSPIT 2009 General Co-Chair

AUST Address: **H. E. Dr. Saeed Abdullah Salman**
President, Ajman University of Science & Technology Network, UAE

IEEE-UAE **Eesa Bastaki**
Section Address: *Chair, IEEE-UAE Section*

ISSPIT Address: **Adel Elmaghraby**
University of Louisville, USA
ISSPIT 2009 General Co-Chair

Plenary Session I

Time and Place: Monday, 10:30 -11:30 am; Hall 1, Sheikh Zayed Center

Session Chair: **Adel Elmaghraby**
University of Louisville, USA

Title: **Applications of Image Reconstruction from Gradient Data Using a Wavelet Based Technique**

Speaker: **Pan Agathoklis**
University of Victoria, Canada

Session Title: D1A1 - Communications I

Time and Place: Monday, 1:40-3:00pm; Hall 6, Sheikh Zayed Center

Session Chair: Arafat Al-Dweik
Khalifa University of Science, Technology & Research, UAE

- 1 Blind Scheme for Carrier Frequency Offset Estimation in MIMO-OFDM Systems**
Sedki B. Younis, Arafat J. A. J. Al-Dweik, Bayan S. Sharif, C. C. Tisimendis, Ali Hazmi
- 2 A Gradient-Based Ordering for MIMO Detection**
Rafael A Trujillo, Victor M Garcia, Antonio M Vidal, Sandra Roger, Alberto Gonzalez
- 3 Complexity Assessment of Sphere Decoding Methods for MIMO Detection**
Johannes Fink, Sandra Roger, Alberto Gonzalez, Vicenc Almenar, Victor M Garcia
- 4 BER Performance of MRC/MC-CDMA Systems For MSK Scheme in Independent and Correlated Nakagami-m and Rician Fading Channels**
Heba Shaban, Mohamad Abou El-Nasr, R. Michael Buehrer

Session Title: D1A2 - Watermarking

Time and Place: Monday, 1:40-3:00pm; Hall 7, Sheikh Zayed Center

Session Chair: Ayman Tawfik
Ajman University of Science & Technology, UAE

- 1 A New Robust Non-Blind Digital Watermarking Scheme In Contourlet Domain**
Sirvan Khalighi, Parisa Tirdad, Hamid R Rabiee
- 2 An Image Watermarking Technique With Improved Resistance To Geometric Distortions Using Image Feature Points**
Mohamed S. Yasein, Pan Agathoklis
- 3 Reversible Blind Watermarking For Medical Images Based On Wavelet Histogram Shifting**
Hemin Golpira, Habibollah Danyali
- 4 A High Capacity Digital Watermarking Technique for Authentication of Color Images**
Ahmed Al-Gindy, Hussain Al-Ahmad, Rami Qahwaji, Ayman Tawfik

Session Title: D1A3 - Speech Coding

Time and Place: Monday, 1:40-3:00pm; Hall 8, Sheikh Zayed Center

Session Chair: Changchun Bao
Beijing University of Technology, China

- 1 An Embedded Speech And Audio Coding Method Based On Bit-Plane Coding And SQVH**
Maoshen Jia, Changchun Bao, Xin Liu
- 2 A Multi-Class SVM Based Phonemes Classifier Based On A Trainable Confidence Measure**
Sahar Amini, Farbod Razzazi, Kambiz Nayebi
- 3 Assessment of CELP Codecs Quality In Multi-Lingual Environment**
Sarunas Paulikas, Mohamad Itani
- 4 Parametric Stereo Coder with Only MDCT Domain Computations**
K. Suresh, T. V. Sreenivas

Session Title: D1A4 - Information Technologies

Time and Place: Monday, 3:30-4:50pm; Hall 6, Sheikh Zayed Center

Session Chair: Ahmad S. Tolba
Arab Open University, Kuwait

- 1 Generic Multi-Document Summarization Using Cluster Refinement and NMF**
Sun Park, Dong Un An, Young Jeong Cho
- 2 A Dynamic Approach to Reliable Mobile Agent Systems Using Group Communication Services**
Alaa Eldeen S Ahmed, Rania R Ramadan
- 3 An E-Learning Model Based On Dynamic Qualitative Constraint Networks**
Nouhad Amaneddine, Jean-François Condotta
- 4 Intuitive Fuzzy C-Means Algorithm**
Jae-Young Kim, Dong-Chul Park, Dong-Min Woo

Session Title: D1A5 - Image Processing I

Time and Place: Monday, 3:30-4:50pm; Hall 7, Sheikh Zayed Center

Session Chair:

- 1 A New Fingerprint Image Compression Method Based on Wave Atoms Transform**
Zehira Haddad, Azeddine Beghdadi, Amina Serir
- 2 An Impulse Noise Fading Technique Based On Local Histogram Processing**
Siavash Khodambashi, Mohsen Ebrahimi Moghaddam
- 3 Coding Artifacts Reduction Method Based on a Perceptually-Weighted Variational Approach**
Quoc Bao Do, Marie Luong, Azeddine Beghdadi
- 4 Fast Seam Carving Using Partial Update and Divide and Conquer Method**
Jinseok Lee, Daijin Kim

Session Title: D1A6 –Speech and Audio Processing

Time and Place: Monday, 3:30-4:50pm; Hall 8, Sheikh Zayed Center

Session Chair: Waleed H. Abdulla
University of Auckland, New Zealand

- 1 An F0 Contour Fitting Model for Singing Synthesis**
Wen-Hsing Lai
- 2 Speech Recognition System for Embedded Real-Time Applications**
Octavian Cheng, Waleed Abdulla, Zoran Salcic
- 3 A New Psycho-Acoustic Model for MPEG1 Layer 3 Coder Using A Dynamic Gammachirp Wavelet**
Khalil Abid, Kais Ouni, Nouredine Ellouze

Banquet Dinner:

Time: Monday, 8:00-10:00 pm

Place: Dubai Creek, Dubai

Tuesday, December 15, 2009

Plenary Session II

Time and Place: Tuesday, 9:00-10:00 am; Hall 1, Sheikh Zayed Center

Session Chair: Fahar G. Hayati

Dean, College of Engineering, Ajman University of Science & Technology, UAE

Title: Building Research Capacity in the United Arab Emirates: The Role of the National Research Foundation

Speaker: Kenneth Wilson

Director, National Research Foundation of UAE

Session Title: D2M1 - Adaptive Filters I

Time and Place: Tuesday, 10:30am-12:10pm; Hall 6, Sheikh Zayed Center

Session Chair: Shihab Jimaa

Khalifa University of Science, Technology & Research, UAE

- 1 **Tracking Analysis of The Normalized LMS Algorithm Without The Independence And Small Step Size Assumptions**
Eweda Eweda
- 2 **Fast Converging Nonlinear Echo Cancellation Based On Optimum Step Size**
Chia-Sheng Shih, Shih Fu Hsieh
- 3 **Nonlinear Acoustic Echo Cancellation Based On Higher Order Correlation**
Guan-Yu Jiang, Shih-Fu Hsieh, Jang-Chyuan Jenq
- 4 **Convergence Evaluation of Variable Step-Size NLMS Algorithm in Adaptive Channel Equalization**
Shihab A. Jimaa, Abdalla Al-Samiri, Raed Shubair
- 5 **Quasi-Newton Multimodulus Blind Equalization Algorithm**
Kashif N. Paracha, Azzedine Zerguine

Session Title: D2M2 - Image Processing II

Time and Place: Tuesday, 10:30am-12:10pm; Hall 7, Sheikh Zayed Center

Session Chair: Lalita Udpa
Michigan State University, USA

- 1 A New Reference-Free Image Quality Index for Blur Estimation in the Frequency Domain**
Aladine Chetouani, Azeddine Beghdadi, Mohamed Deriche
- 2 Automated Visual Inspection of Flat Surface Products Using Feature Fusion**
Ahmad S Tolba, Hamayun A Khan, Hazem M. Raafat
- 3 Texture Analysis of Tissue Samples Using Apdtocs with Color Components**
Jouni Paakkonen, Niina Paivinen, Pekka Toivanen
- 4 Quick Invariant Signature Extraction from Binary Images**
Hamid R Shahbazkia, Antonio Anjos
- 5 Random Hypersurface Models For Extended Object Tracking**
Marcus Baum, Uwe D. Hanebeck

Session Title: D2M3 - Communications II

Time and Place: Tuesday, 10:30am-12:10pm; Hall 8, Sheikh Zayed Center

Session Chair: Khaled Assaleh
American University of Sharjah, UAE

- 1 RAKE Receiver Design for TH-PPM UWB Systems**
Homa Eghbali, Mohamed El-Tarhuni
- 2 Regularized Semi-Blind Estimator over MIMO-OFDM Systems**
Abla Kammoun, Karim Abed-Meraim, Sofiane Affes
- 3 Channel Prediction for Limited Feedback Precoded MIMO-OFDM Systems**
Abdullatif Khrwat, Bayan S. Sharif, Charalampos C. Tsimenidis, Said Boussakta,
- 4 Blind Channel Estimation in OFDM Systems by Relying on the Gaussian Assumption of the Input**
Tareq Y. Al-Naffouri, Ahmed Abdul Quadeer
- 5 Distributed Detection with Transmit-Only Sensors and A Successive Interference Cancellation Receiver**
Daniel Bielefeld

Session Title: D2A1 - Advanced Signal Processing in Nondestructive Testing I

Time and Place: Tuesday, 1:40-3:00 pm; Hall 4, Sheikh Zayed Center

Session Chair: Uvais Qidwai
Qatar University, Qatar

- 1 Multiobjective Optimization For Low SAR Antenna Design**
Ibrahim Elshafiey, Abdel-Fattah Sheta, Saeed Aldosari, Majeed A. Alkanhal, Saleh A. Alshebeili
- 2 Multimodal Image Fusion For Next Generation NDE Systems**
Ayed Algarni, Ibrahim Elshafiey, Majeed A. Alkanhal
- 3 Application Of Time Reversal Signal Processing To Microwave NDE**
Solimar Reyes-Rodríguez, Naiguang Lei, Robert J. Mcgough, Satish Udpa, Lalita Udpa
- 4 Image Deconvolution for Enhancing IR Images In Order To Detect Defects in Metallic Plates**
Uvais A Qidwai, Mohammad Maqbool

Session Title: D2A2 - Biomedical I

Time and Place: Tuesday, 1:40-3:00 pm; Hall 6, Sheikh Zayed Center

Session Chair: Mohammed El-Telbany
Electronics Research Institute, Egypt

- 1 Skin Cancer Parameterization Algorithm Based On Epiluminiscence Image Processing**
B. G. Zaporain, Amaia M. Zorrilla, Ibon R. Oleagordia, Guillermo N. Nunez, Aicha A. Abtane
- 2 Flowchart Content Descriptor for Visually Disabled People**
Amaia Mendez Zorrilla, B. Garcia Zaporain, Ibon Ruiz Oleagordia, Alvaro Muro
- 3 Iris Fusion For Multibiometric Systems**
Lahouari M Ghouti, Ahmed A Bahjat
- 4 Home ECG System: Signal Processing and Remote Transmission**
Tahereh Shams, Fereshteh Rahi, Mustahsan Mir, Mohamed Nasor

Session Title: D2A3 - Image Processing III

Time and Place: Tuesday, 1:40-3:00 pm; Hall 7, Sheikh Zayed Center

Session Chair: Hussain Al-Ahmad
Khalifa University of Science, Technology & Research, UAE

- 1 A Quasi Blind Watermark Extraction of Watermarked Natural Preserve Transform Images On A Dsp Board**
Gamal E Fahmy
- 2 Robust two-Stage Lip Tracker**
Jongju Shin, Bongjin Jun, Daijin Kim
- 3 Time-Weighted Quantitative Testing of Image Segmentation with a Genetic Algorithm**
Hassan Almuhairei, Martin Fleury, Adrian F Clark
- 4 A Novel Ocr System For Calculating Handwritten Persian Arithmetic Expressions**
Sirvan Khalighi, Parisa Tirdad, Hamid R Rabiee

Session Title: D2A4 - Adaptive Filters II

Time and Place: Tuesday, 1:40-3:00 pm; Hall 8, Sheikh Zayed Center

Session Chair: Esam Abdel-Raheem
University of Windsor, Canada

- 1 Two-Staged Nonlinear Acoustic Echo Cancellation and Its Convergence Analysis**
Ko-Chiang Li, Shih-Fu Hsieh, Jang-Chyuan Jenq
- 2 Noise Cancellation in ECG Signals Using Normalized Sign-Sign LMS Algorithm**
Mohammad Z Rahman, Shaik R Ahamed, D V R Reddy
- 3 Efficient Blind Adaptive Channel Shortening Algorithm for Multicarrier Modulation Systems**
Ishaq Gul Muhammad, Esam Abdel-Raheem, Kemal Tepe
- 4 A Family of Normalized Least Mean Fourth Algorithms and Their Tracking Analysis**
Azzedine M Zerguine

Session Title: D2A5 - Advanced Signal Processing in Nondestructive Testing II

Time and Place: Tuesday, 3:30-4:50 pm; Hall 4, Sheikh Zayed Center

Session Chair: Uvais Qidwai
Qatar University, Qatar

- 1 Fuzzy Time-Frequency Defect Classifier for NDT Applications**
Uvais A Qidwai, Maamar Bettayeb
- 2 Reconstruction of Microwave Tomography Data Obtained Using Deformable Mirrors**
Satish S Udpa, Kavitha Arunachalam, Lalita Udpa
- 3 Signal Processing Techniques for Nondestructive Evaluation Using Laser Ultrasonics**
Marvin B Klein, Homayoon Ansari

Session Title: D2A6 – Bioinformatics

Time and Place: Tuesday, 3:30-4:50 pm; Hall 6, Sheikh Zayed Center

Session Chair: Mohamad Abou El-Nasr
Arab Academy for Science, Technology & Maritime Transport, Egypt

- 1 A Framework for the Power Consumption and BER Performance of Ultra-Low Power Wireless Wearable Healthcare and Human Locomotion Tracking Systems via UWB Radios**
Heba Shaban, Mohamad Abou El-Nasr, R. Michael Buehrer
- 2 Verifying Speakers in Emotional Environments**
Ismail M. A. Shahin
- 3 Bioinspired Learning For Microarray Gene Selection and Cancer Classification**
Sultan H. Aljahdali, Mohammed E. El-Telbany
- 4 Affine Invariant Iris Identification Using Angular and Radial Partitioning**
Mehran Deljavan Amiri, Wafa Barkhoda, Habibollah Danyali, Fardin Akhlaqian Tab

Session Title: D2A7 - Radar Processing

Time and Place: Tuesday, 3:30-4:50 pm; Hall 7, Sheikh Zayed Center

Session Chair: Karim Abed-Meraim
University of Sharjah, UAE

- 1 Improved Analysis of Spaceborne Radar Signals Using Wavelet-Based Techniques**
Khalid A Mubarak, Ali M Dawood, Raed M Shubair, Abdullah M Alhamer
- 2 Efficient Target Identification for MIMO High-Resolution Imaging Radar via Plane-Rotation-Invariant Feature**
Dang-Wei Wang, Gang Chen, Ning Wu, Xiao-Yan Ma
- 3 Particle Filter Algorithm for Tracking Manoeuvring Target Using FM Signal**
Khalil Jishy, Frederic Lehmann, Michel Moruzzis, Gerard Salut

Session Title: D2A8 - Communications III

Time and Place: Tuesday, 3:30-4:50 pm; Hall 8, Sheikh Zayed Center

Session Chair: Maamar Bettayeb
University of Sharjah, UAE

- 1 A Semi-Blind Time Domain Equalization of SCFDMA Signal**
S. Y Yameogo, Jacques Palicot
- 2 How Much Training is Optimal in Adaptive PSAM Over Markov Rayleigh Fading Channels**
Khalid A Zeineddine, Ibrahim C Abou-Faycal
- 3 Stability Analysis of Decentralized Overlapping Estimation Scheme With Markovian Packet Dropouts**
Muhammad A. S. Murtadha, Maamar Bettayeb
- 4 Optimization of Thinned Arrays Using Stochastic Immunity Genetic Algorithm**
Zoubir M Hamici, Taisir H Ismail

Banquet Dinner:

Time: Tuesday, 8:00-10:00 pm

Place: Millennium Hotel, Sharjah

Wednesday, December 16, 2009

Plenary Session III

Time and Place: Wednesday, 9:00-10:00 am; Hall 1, Sheikh Zayed Center

Session Chair: Eweda I. Eweda

*Ajman University of Science & Technology, UAE
ISSPIT 2009 General Co-Chair*

Title: Low-Complexity Solutions for Extreme Bandwidth Communication

Speaker: Mohamed-Slim Alouini

KAUST, Saudi Arabia

Title: Cross-Layer Design in Wireless Networks

Speaker: Kemal Tepe

University of Windsor, Canada

Session Title: D3M1 – Image and Video Processing

Time and Place: Wednesday, 10:30am-12:10pm; Hall 6, Sheikh Zayed Center

Session Chair: Ibrahim Abou-Faycal

American University of Beirut, Lebanon

- 1 **Mmi-Based Optimal Lbp Feature Selection For Facial Expression Recognition**
Taewan Kim, Daijin Kim
- 2 **Statistical Face Image Preprocessing And Non-Statistical Face Representation For Practical Face Recognition**
Bongjin Jun, Hyung-Soo Lee
- 3 **Satellite Image Segmentation Using Self-Organizing Maps and Fuzzy C-Means**
Mohamad M. Awad, Ahmad Nasri
- 4 **Delay-Efficient GOP Size Control Algorithm in Wyner-Ziv Video Coding**
Imad F Ahmad, Ziad F Ahmad, Ibrahim C Abou-Faycal
- 5 **Classification of Video Data Using Centroid Neural Network**
Jae-Young Kim, Dong-Chul Park, Dong-Min Woo

Session Title: D3M2 – DSP Algorithms and Digital Filters

Time and Place: Wednesday, 10:30am-12:10pm; Hall 7, Sheikh Zayed Center

Session Chair: Shih-Fu Hsieh
National Chiao Tung University, Taiwan

- 1 Partitioned Feature-Based Classifier Model**
Dong-Chul Park
- 2 Nonnegative Matrix Factorization Using Projected Gradient Algorithms with Sparseness Constraints**
Nasser Mohammadiha, Arne Leijon
- 3 Autonomous Trajectory Learning Using Free Configuration-Eigenspaces**
Tauseef Gulrez, Shyba Zaheer, Yousif Abdallah
- 4 Design of IIR Filters For A Limited Number Of Samples With Optimum Dynamic Frequency Responses**
Jeedella S.Y. Jeedella, Hussain Al-Ahmad, Raed Shubair, Mohammed Al-Mualla
- 5 Common-Acoustic-Poles and Zeros Modeling Using Jointly Balanced Model Truncation**
C.J. Liu, Shih-Fu Hsieh

Session Title: D3M3 – Networks

Time and Place: Wednesday, 10:30am-12:10pm; Hall 8, Sheikh Zayed Center

Session Chair: Ahmad Almulhem
King Fahd University of Petroleum & Minerals, Saudi Arabia

- 1 AdamRTP: Adaptive Multi-Flows Real-Time Multimedia Delivery over WSNs**
Aniss Zakaria, Randa El-Marakby
- 2 An Evaluation Of The Virtual Router Redundancy Protocol Extension With Multi Segment Load Balancing**
Fazl E Hadi, Atif Naseer, Fawad Bashir, Khalid Hussain
- 3 Flooding Zone Control Protocol (Fzcp): Enhancing The Reliability Of Real-Time Multimedia Delivery In Wsns**
Tarik Elamsy, Randa El-Marakby
- 4 Source Geography Estimation For Web Pages**
Davide Bardone, Elias S.G. Carotti, Juan Carlos De Martin
- 5 Network Forensics: Notions And Challenges**
Ahmad Almulhem

Session Title: D3A1 - Speech Processing

Time and Place: Wednesday, 1:40-3:00pm; Hall 4, Sheikh Zayed Center

Session Chair: Janq-Chyuan Jenq
China University of Technology, Taiwan

- 1 Robust Speech Recognition Using MLP Neural Network in Log-Spectral Domain**
Masoumeh P. Ghaemmaghami, Hossein Sameti, Farbod Razzazi, Bagher Babaali, Saeed Dabbaghchian
- 2 Noise Robust Speech Activity Detection**
Waleed H. Abdulla, Zhou Guan, Hou Chi Sou
- 3 A Novel Speech-Like Symbol Design for Data Transmission Through GSM Voice Channel**
Ali Shahbazi, Amir H Rezaie, Abolghasem Sayadiyan
- 4 Phoneme Recognition via Coupling Landmark ISOMAP and Random Forests**
Ioannis Atsonios

Session Title: D3A2 - DSP Implementations

Time and Place: Wednesday, 1:40-3:00pm; Hall 6, Sheikh Zayed Center

Session Chair: Raed Shubair
Khalifa University of Science, Technology & Research, UAE

- 1 A Matrix-Vector Based Approach To FFT Implementations**
Yuheng He, Klaus Hueske, Jurgen Gotze, Edmund Coersmeier
- 2 FPGA Implementation of Decision Feedback Equalizer**
Doaa Ashmawy, Esam Abdel-Raheem, Hala Mansour, Mohamed Youssif, Mahmoud Mohanna
- 3 Reconfigurable Array by Digital Phase Control Using Particle Swarm Optimization**
Taisir H Ismail, Zoubir M Hamici
- 4 High Throughput Multiple-Precision Gcd On The Cuda Architecture**
Noriyuki Fujimoto

Session Title: D3A3 – Localization Algorithms

Time and Place: Wednesday, 1:40-3:00pm; Hall 7, Sheikh Zayed Center

Session Chair: Reda Ammar
University of Connecticut, USA

- 1 Direction of Estimation Approach for Collaborative Localization in Wireless Sensor Networks**
Abdullah I. Alhasant, Bayan S. Sharif, Charalampos C. Tsimenidis, Said Boussakta
- 2 Improving the Performance of the Instantaneous Blind Audio Source Separation Algorithms**
Amr E Mohamed, Reda A Ammar, Mohamed I Eladawy, Medhat Hussien
- 3 An Efficient IMM-UKF-Bias Algorithm For Mobile Location In UMTS-FDD Under NLOS Conditions**
Hadjira Benoudnine, Steve Bartelmaos, Karim Abed Meraim
- 4 FH-Adaptive Motion Compensation for Moving Object Detection in an Active Camera**
Jiman Kim, Jongju Shin, Daijin Kim

Session Title: D3A4 – Image Processing and Interfaces

Time and Place: Wednesday, 1:40-3:00pm; Hall 8, Sheikh Zayed Center

Session Chair: Mohamad Awad
National Council for Scientific Research, Lebanon

- 1 Dynamic Fuzzy Clustering Using Harmony Search With Application In Image Segmentation**
Osama Moh'D Alia, Rajeswari Mandava, Dhanesh Ramachandram, Mohd Ezane Aziz
- 2 Gait Recognition System Tailored For Arab Costume Of The Gulf Region**
Khaled Assaleh, Tamer Shanableh, Layla Hajja, Abdulwahab Kabani
- 3 Online Social Networks, An Interface Requirements Analysis**
Vishwesh L Akre, Aftab H Rizvi, Mohammed Arif
- 4 Cooccurrence Histograms for Characterizing Brain Magnetic Resonance Images**
Doaa M Ghoneim

Session Title: D3A5 – Audio Processing

Time and Place: Wednesday, 3:30-4:50pm; Hall 6, Sheikh Zayed Center

Session Chair: Ioannis Atsonios
Johns Hopkins University, USA

- 1 A Comparison Between Allophone, Syllable, and Diphone Based TTS Systems for Kurdish Language**
Wafa Barkhoda, Bahram Zahir Azami, Anvar Bahrampour, Om-Kolsoom Shahryari
- 2 Automatic Meter Classification In Persian Poetries Using Support Vector Machines**
Saeid Hamidi, Masoumeh P. Ghaemmaghami, Farbod Razzazi
- 3 Large Corpus of Iranian Music**
M.Hassan Shirali-Shahreza, Sajad Shirali-Shahreza

Session Title: D3A6 – Biometrics

Time and Place: Wednesday, 3:30-4:50pm; Hall 7, Sheikh Zayed Center

Session Chair: Rehab Abdel-Kader
Suez-Canal University, Egypt

- 1 Particle Swarm Optimization for Human Face Recognition**
Rabab M. Ramadan, Rehab F. Abdel-Kader
- 2 A Hybrid Rotation-Invariant Face Recognition System Using Log-Polar Transform**
Rehab F Abdel-Kader, Rabab M Ramadan, Rawya Y Rizk
- 3 Fingerprint Verification Using Fingerprint Texture**
Mohammed S. Khalil, Dzulkifli Muhammad, Muhammad Khurram Khan, Qais Al-Nuzaili
- 4 Hilbert-Huang Transform Based Physiological Signals Analysis For Emotion Recognition**
Cong Zong, Mohamed Chetouani

Session Title: D3A7 - Sensor Networks

Time and Place: Wednesday, 3:30-4:50pm; Hall 8, Sheikh Zayed Center

Session Chair: Jürgen Götze
Dortmund University of Technology, Germany

- 1 Energy Saving by Using Floating Input Approach in a Wireless Sensor Network**
Mehrdad Babazadeh, Ishwar Lal, Walter Lang
- 2 Regularized and Simplified Monte Carlo Joint Probabilistic Data Association Filter for Multi-Target Tracking in Wireless Sensor Networks**
Mohammad Ali Tinati, Tohid Yousefi Rezaii
- 3 Chernoff Information-Based Optimization of Sensor Networks for Distributed Detection**
Gernot M Fabeck, Rudolf Mathar
- 4 Joint Adaptive Quantization and Fading Channel Estimation for Target Tracking In Wireless Sensor Networks**
Majdi Mansouri, Hichem Snoussi, Cedric Richard