

# **2014 1st International Conference on Advanced Technologies for Signal And Image Processing**

**(ATSIP 2014)**

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17-19 March 2014**



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# ATSIP'2014 Technical Program

Monday March17, 2014	
08:00 – 10:00	REGISTRATION OPENING
10:00 – 10:30	Coffee Break
10:30 – 10:45 <b>ROOM 0</b>	CONFERENCE OPENING
10:45 – 12:30  <b>ROOM 0</b>	<h2 style="margin: 0;">PLENARY SESSION</h2> <p style="margin: 0;">Chairs: Ahmed BEN HAMIDA &amp; Amel BEN AZZA &amp; Nouredine ELLOUZE</p> <p style="margin: 0;"><u>1<sup>st</sup> Plenary Session</u></p> <p style="margin: 0;">“Possibility Theory and scene interpretation”</p> <p style="margin: 0;">by Basel SOLAIMAN (Telecom Bretagne, FRANCE)</p> <p style="margin: 0;"><u>2<sup>nd</sup> Plenary Session</u></p> <p style="margin: 0;">“Belief functions for image analysis and processing”</p> <p style="margin: 0;">by Sylvie LE HÉGARAT-MASCLE (ACCIS, Polytechnique Paris Sud, FRANCE)</p>
12:30 – 14:30	Lunch

14:30 – 16:00 <b>ROOM 0</b>	
<b>Special Session (SSM-A0)</b> <b>INFORMATION FUSION FOR IMAGE ANALYSIS</b> <b>Chairman : Basel SOLAIMAN &amp; Imen KHANFIR</b>	
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<b>IFI-89</b>	Ontological Approach to Mammographic Knowledge Representation <i>Rihab Idoudi, Kamel Hamrouni and Basel Solaiman</i> 31
<b>IFI-100</b>	A new ontology for semantic annotation of remotely sensed images <i>Wassim Messaoudi, Imed Riadh Farah and Basel Solaiman</i> 36
<b>IFI-143</b>	A New Efficient Biometric Recognition System based on Iris using Possibility Theory <i>Majd Bellaj, Imen Khanfir ,Dorra Sallemi and Basel Solaiman</i> 54
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14:30 – 16:00 <b>ROOM 1</b>	
<b>Regular Session (RSM-A1)</b> <b>SPEECH &amp; AUDIO PROCESSING</b> <b>Chairman : Jean-Paul HATON &amp; Zied LACHIRI</b>	
<b>SAP-97</b>	Statistical voicing parameter analysis of pathological signals using the multi-scale product band SVM classification <span style="float: right;">N/A</span>

	<i>Asma Belhaj, Aicha Bouzid and Nouredine Ellouze</i>	
<b>SAP-26</b>	Phonemic duration modeling using HMM for Arabic Text-to-speech synthesis <i>Imene Zangar, Zied Mnasri, Fatouma Boukadida and Nouredine Ellouze</i>	N/A
<b>SAP-82</b>	Improved Packets Loss Concealment in Speech Coding by Data Hiding <i>Nadir Ben Amirouche, Bachir Boudraa and Tetsuya Shimamura</i>	476
<b>SAP-57</b>	Fusion of Gammachirp Filter Bank and Prosodic Features for Speaker Identification <i>Amina Ben Abdallah, Zied Hajaeij and Nouredine Ellouze</i>	N/A
<b>SAP-49</b>	Dereverberation method of monaural speech signal <i>Oussema Boufares and Mohamed Anouar Ben Messaoud</i>	N/A
<b>14:30 – 16:00</b> <b>ROOM 2</b>		
<b>Regular Session (RSM-A2)</b> <b>MODELING IN SIGNALS &amp; IMAGES</b>		
<b>Chairman: Ali-Mohamed DJAFARI &amp; Rima GUIDARA</b>		
<b>MSI-31</b>	Incremental Fuzzy clustering with multiple kernels <i>Naouel Baili and Hichem Frigui</i>	289
<b>MSI-22</b>	A Model-Based Discriminative Framework for Sets of Positive Vectors Classification: Application to Object Categorization <i>Nizar Bouguila</i>	277
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<b>MSI-93</b>	Sleep-wake classification using EEG signals <i>Hayet Werteni, Slim Yacoub and Nouredine Ellouze</i>	N/A
<b>14:30 – 16:00</b> <b>ROOM 3</b>		
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<b>16:30 – 18:00</b>		
<b>ROOM 0</b>		
<b>Special Session (SSM-B0)</b>		
<b>SIGNAL PROCESSING IN RADIO-FREQUENCY SYSTEMS</b>		
<b>Chairman : Ali GHARSALLAH &amp; Hamadi GHARIANI</b>		
<b>SPE-138</b>	Linear MUSIC like Algorithms for Fast Direction of Arrival Estimation <i>Salem Akkar, Ferid Harabi and Ali Gharsallah</i>	550
<b>SPE-112</b>	Design of ultra wideband oscillator in 0.18 $\mu$ m standard CMOS technology <i>Amel Neifar, Ghazi Bouzid, HatemTrabelsi and Mohamed Masmoudi</i>	529
<b>SPE-140</b>	2-D FDFD Method Analysis to NRD-guide bandpass filter design using half-wave step-impedance prototype <i>Ramzi Gharbi, HichemTrabelsi and Ali Gharsallah</i>	560
<b>SPE-139</b>	Antipodal Vivaldi Antenna Array with Dielectric Rod for ultra-wideband radar applications <i>Rabaa Herzi, Hsan Zairi and Ali Gharsallah</i>	N/A
<b>SPE-91</b>	Studying planar circuit with "R-WCIP" in case of spatial excitation <i>Hrizi Hafedh, Noureddine Sboui and Henry Bauderand</i>	N/A
<b>16:30 – 18:00</b>		
<b>ROOM 1</b>		
<b>Regular Session (RSM-B1)</b>		
<b>SIGNAL PROCESSING FOR COMMUNICATIONS &amp; NETWORKS</b>		
<b>Chairman :Lotfi KAMMOUN &amp; Mondher CHAOUI</b>		
<b>SPC-41</b>	Joint Interference Minimizing and Scheduling in Underlay Cognitive Radio Networks Based on Non-Orthogonal Opportunistic Beamforming <i>Ayman Massaoudi, Noura Sellami and Mohamed Siala</i>	486
<b>SPC-59</b>	Performance Evaluation of LTE Downlink System <i>BechirNsiri, Nasreddine Mallouki and Messaoud El Jamai</i>	492
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<b>Regular Session (RSM-B2)</b>		
<b>MODELING IN SIGNALS &amp; IMAGES</b>		
<b>Chairman : Mohamed BEN MESSAOUD &amp; Mounir SAMET</b>		
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<b>MSI-52</b>	Fingerprint verification using SVD features and back propagation neural network <i>Ala Balti and Mounir Sayadi</i>	301
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<b>IVP-43</b>	Video genre categorization using support vector machines <i>Nouha Dammak and Yassine Ben Ayed</i>	106
<b>IVP-34</b>	Analysis and implementation of parallel causal bit plane coding in JPEG2000 standard <i>Refka Ghodhbani, Taoufik Saidani, Layla Horrigue and Mohamed Atri</i>	N/A

**Tuesday March18, 2014**

<p><b>9:00 – 10:00</b></p> <p><b>ROOM 0</b></p>	<p><b>PLENARY SESSION</b></p> <p><b>Chairman: Habib Hmam &amp; Sylvie LE HEGARAT</b></p> <p><b><u>3<sup>rd</sup> Plenary Session</u></b></p> <p><b>“ Audio-Visual Speech Processing”</b></p> <p><b>by Gerard CHOLLET (CNRS, ENST-Ecole Nationale Supérieure des Télécommunications, France)</b></p>
<p><b>10:00 – 10:30</b></p>	<p><b>Coffee Break</b></p>

<p><b>10:30 – 12:300</b></p> <p><b>ROOM 0</b></p>	
<p><b>Regular Session (RST-A0)</b></p> <p><b>REMOTE SENSING AND ASSIMILATION</b></p> <p><b>Chairman : Sylvie LE HÉGARAT-MASCLE &amp; Abdelaziz KALLEL</b></p>	
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<p><b>RSA-36</b></p>	<p>Genetic Particle Smoother Thermal Sharpener : Methodology and application to pseudo-observations <i>Rihab Mechri, Catherine Ottlé, Olivier Pannekoucke and Abdelaziz Kallel</i> 385</p>
<p><b>RSA-45</b></p>	<p>A study of changes prediction by HMM with non-stationarity image data: Case of urban area <i>Ali Ben Abbes, Houcine Essid, Imed Riadh Farah and Vincent Barra</i> 396</p>
<p><b>RSA-35</b></p>	<p>Multi-frequency analysis of soil moisture vertical heterogeneity effect on radar backscatter <i>Azza Gorrab, Mehrez Zribi, Nicolas Baghdaïdi, Zohra Lili chabaane and Bernard Mougénot</i> 379</p>
<p><b>RSA-88</b></p>	<p>Phase unwrapping using Markov random field model applied to segmented regions <i>Wajih Ben Abdallah and Riadh Abdelfattah</i> 413</p>
<p><b>RSA-4</b></p>	<p>Neuro-genetic classifier applied to road detection <i>Mohamed Amine Bahri, Hassene Seddik and Anissa Selmani</i> N/A</p>
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	<i>Guettari Toufik, Boudy Jerome, Istrate Dan, Benkelfat Badr-Eddine, Baldinger Jean-Louis and Dore Pascal</i>	
<b>MSI-70</b>	The detection of Evoked Potential with variable latency and multiple trial using Consensus matching pursuit <i>Abir Hadriche, Nawel Jmail, Abdenaceur Kachouri and Hamadi Ghariani</i>	N/A
<b>MSI-27</b>	Bayesian Blind Deconvolution using a Student-t prior model and Variational Bayesian Approximation <i>Ali Mohammad-Djafari</i>	N/A
<b>10:30 – 12:30</b> <b>ROOM 2</b>		
<b>Special Session (SST-A2)</b> <b>SIGNAL PROCESSING FOR ELECTRONIC MEASURING SYSTEMS</b> <b>Chairman : Mounir SAMET &amp; Monji LAHIANI</b>		
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<b>SPE-122</b>	Model of a Short Range Non-Coherent IR-UWB Transceiver <i>Dhouha Daoud, Mohamed Ghorbel and Ahmed Ben Hamida</i>	539
<b>SPE-133</b>	Design of Ultra Wide Band Radar System Using The Software Advanced Design System (ADS) <i>Houda Werfelli, Mondher Chaoui, Mongi Lahiani and Hamadi Gharieni</i>	544
<b>SPE-121</b>	A Non-Coherent High Speed IR-UWB Receiver for Biomedical Implants <i>Maissa Daoud, Mohamed Ghorbel and Hassene Mnif</i>	533
<b>10:30 – 12:30</b> <b>ROOM 3</b>		
<b>Regular Session (RST-A3)</b> <b>MEDICAL IMAGES &amp; APPLICATIONS</b> <b>Chairman : Nizar BOUGUILA &amp; Lamia SELLAMI</b>		
<b>MIA-44</b>	Multi-slices breast ultrasound lesion segmentation using multi-scale vector field convolution snake <i>Olfa Ben Sassi, Lamia Sellami, Mohamed Ben Slima, Khalil Chtourou and Ahmed Ben Hamida</i>	
<b>MIA-8</b>	Using tractography to infer basal ganglia's functional subterritories distribution change in Huntington disease <i>Linda Marrakchi-Kacem, Christine Delmaire, Fabrice Poupon, Pamela Guevara, Sophie Lecomte, Jérôme Yelnik, Alexandra Durr, Jean-François Mangin, Stéphane Lehericy and Cyril Poupon</i>	
<b>MIA-42</b>	A peak detection in electrocardiogram signal based on a combination between empirical mode decomposition and Hilbert transform <i>Rebeh Mabrouki, Balkine Khaddoumi and Mounir Sayadi</i>	
<b>MIA-102</b>	Advanced approach for PET breast cancer segmentation based on FAMIS methodology <i>Ines Ketata ,Lamia Sallemi, FrédéricMorain -Nicolier, Mohamed Ben Slima , AlexandreCochet , Khalil Chtourou, Su Ruan and Ahmed Ben Hamida</i>	
<b>MIA-123</b>	A Computer Aided Diagnosis 'CAD' for Brain Glioma Exploration <i>Ines Njeh, Lamia Sallemi, Mohamed Ben Slima, Khalil Chtourou, Stephane Lehericy,Damien Galanaud, Ahmed ben Hamida</i>	

<b>MIA-128</b>	Method of detection and monitoring multiple sclerosis evolution: Brief review of multiple sclerosis lesions segmentation methods on conventional magnetic resonance imaging <i>Olfa Ghribi ,Ines Njeh,wassim Zouch ,Ahmed Ben Hamida and Chokri Mhiri</i>
<b>12:30 – 14:30</b> <b>Lunch</b>	

<b>14:30 – 16:00</b> <b>ROOM 0</b>	
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<b>Regular Session (RST-B0)</b> <b>SPEECH AND AUDIO PROCESSING</b> <b>Chairman : Gerard CHOLLET &amp; Sofia BEN JEBARA</b>	
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<b>SAP-9</b>	Statistical selection of relevant objective criteria for speech enhancement assessment <i>Anis Ben Aicha and Sofia Ben Jebara</i>
<b>SAP-12</b>	Features based on quasi-sinusoidal modeling for tremor detection in parkinsonian voice <i>Alaa Ben Rhouma and Sofia Ben Jebara</i>
<b>SAP-23</b>	Detection of repeating items in audio streams using data-driven ALISP sequencing <i>Houssemeddine Khemiri, Dijana Petrovska-Delacretaz and Gérard Chollet</i>
<b>SAP-48</b>	Building the Next Generation of Personal Digital Assistants <i>Pierrick Milhorat, Stephan Schlögl, Gérard Chollet, Jerome Boudy, Anna Esposito and Gianni Pelosi</i>
<b>SAP-46</b>	Statistical parametric speech synthesis for Arabic language using ANN <i>Ilyes Rebai and Yassine BenAyed</i>

<b>14:30 – 16:00</b> <b>ROOM 1</b>	
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<b>Special Session (SST-B1)</b> <b>INFORMATION FUSION FOR IMAGE ANALYSIS</b> <b>Chairman : Basel SOLAIMAN &amp; Hanene TRICHILLI</b>	
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<b>IFI-149</b>	Possibility distribution Estimation for a small sample size of data <i>Mariem Chaâbène, Imene Khanfir Kallel, Sonda Ammar Bouhamed, Majd Bellaj, Wassim Bouchaala</i>
<b>IFI-148</b>	Possibilistic modeling of ultrasonic signal for floor state recognition <i>Sonda Ammar Bouhamed, Imene Khanfir Kallel, Dorra Sellami Masmoudi and Basel Solaiman</i>
<b>IFI-150</b>	Possibility modeling maps for ground detection <i>Jihen Frikha, Imen Khanfir and Dorra Sellami Masmoudi</i>
<b>IFI-144</b>	Novel fingerprint matching method based on possibility theory <i>Hanene Guesmi, Hanene Trichilli ,Mohamed Adel Alimi and Basel Solaiman</i>
<b>IFI-145</b>	Semantic object recognition by merging image classifier with object ontology <i>Wafa Damak, Imen Khanfir and Issam Rebai</i>

<b>14:30 – 16:00</b> <b>ROOM 2</b>	
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<b>Regular Session (RST-B2)</b> <b>IMAGE AND VIDEO PROCESSING</b> <b>Chairman : Mohamed HAMMAMI &amp; Amel BEN AZZA</b>	
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<b>IVP-60</b>	Parallel implementation of the discrete wavelet transform on graphics processing units <i>Randa Khemiri, Fatma Sayadi, Maroua Chouchene, Bahri Haytham, Taoufik Saidani and</i>
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	<i>RachedTourki</i>
<b>IVP-62</b>	FPGA implementation of image covariance descriptors for person detection systems <i>Nesrine Abid, Walid Ayedi, Ahmed Chiheb Ammari and Mohamed Abid</i>
<b>IVP-30</b>	Identification of Cardio-Pulmonary Resuscitation (CPR) Scenes in Video Simulating Medical Crises <i>Hichem Frigui, Surangkana Rawungyot and Anis Hamdi</i>
<b>IVP-124</b>	DSP –based down-sampling process using Lanczos filter bank <i>Amina Kessentini, Nejmeddine Bahri, Amine Samet, Mohamed Ali Ben Ayed and Nouri Masmoudi</i>
<b>14:30 – 16:00</b> <b>ROOM 3</b>	
<b>Regular Session (RST-B3)</b> <b>MEDICAL IMAGES AND APPLICATIONS</b> <b>Chairman : Hichem FRIGUI &amp; Lamia SALLEMI</b>	
<b>MIA-153</b>	Phase contrast MRI for discriminating brain microbleed in a multicentre clinical study <i>Takoua Kaaouana, Marie Chupin, Ludovic Rochefort, Thomas Samaille, Didier Dormont, Christine Delmaire, Carole Dufouil and Nathalie Thiery</i>
<b>MIA-13</b>	Geometrical feasibility and preliminary in-vitro validation for fixed 2-D X-ray devices in image-guided radiotherapy <i>Florence Kremer, Joachim Giard, Mérence Sibomana, José Seabra, Jonathan Orban de Xivry, Rudi Labarbe and Benoit Macq</i>
<b>MIA-79</b>	Automatic Brain MR Perfusion Image Segmentation using Adaptive Diffusion Flow Active Contours based on Modified Fuzzy C Means <i>Abdelkhalek Bakkari, Ines Njeh, Ezzedine Ben Braiek and Ahmed Ben Hamida</i>
<b>MIA-114</b>	Introducing time component on LORETA method for the EEG inverse problem <i>Boughariou Jihene, Wassim Zouch and Ahmed Ben Hamida</i>
<b>MIA-137</b>	Advanced Methodology Useful for Exploring Distortions in Confocal Microscopy Medical Images: Application to Neurodegenerative pathology <i>Rania Trigui, Lamia Sallemi, Julien Dauguet and Ahmed Ben Hamida</i>
<b>16:00 – 16:30</b> <b>Coffee Break</b>	

<b>16:30 – 18:00</b> <b>ROOM 0</b>	
<b>Regular Session (RST-C0)</b> <b>SPEECH AND AUDIO PROCESSING</b> <b>Chairman : Jean-Paul HATON &amp; Mondher FRIKHA</b>	
<b>SAP-40</b>	A new parameterization method based on GAMMACHIRP wavelet transforms to improve isolated words recognition. <i>Khaireddine Salhi, Zied Hajaiej and Noureddine Ellouze</i>
<b>SAP-94</b>	Dynamic Bayesian networks for Arabic phonemes recognition. <i>Elyes Zarrouk, Yassine Ben Ayed and Faiez Gargouri</i>
<b>SAP-99</b>	Feature Extraction Method Perceptual Linear Prediction in Speech Recognition using Auditory Filter <i>Hajer Rahali, Zied Hajaiej and Noureddine Ellouze</i>
<b>SAP-78</b>	Automatic Speech Recognition system based Gammachirp feature using HMM in noisy environments

	<i>Issam BelhajYahia ,Zied Hajaiej and Kais Ouni</i>	
<b>SAP-16</b>	Classification of short-duration sounds for environmental monitoring <i>Bochra Bouchhima, Rim Amara and Monia Turki</i>	
<b>16:30 – 18:00</b> <b>ROOM 1</b>		
<b>Regular Session (RST-C1)</b> <b>CRYPTOGRAPHY, STEGANOGRAPHY, DATA FUSION MODELING AND APPLICATIONS</b> <b>Chairman : Habib HMAM &amp; Abdelaziz KALLEL</b>		
<b>CRY-11</b>	Motion vectors signs encryption for H.264/AVC <i>Naziha Khlif, Fahmi Kammoun and Nouri Masmoudi</i>	1
<b>CRY-64</b>	A new secure and efficient scheme of ADPCM encoder based on chaotic encryption <i>Mimoun Hamdi, Safia Belghith, Rhouma Rhouma and Houcemeddine Hermassi</i>	7
<b>CRY-132</b>	A digital holography based steganographic method <i>Habib Hmam</i>	N/A
<b>DFM_24</b>	Sequential object detection in belief function theory <i>Wafa Rekik, Sylvie Le Hégarat-Masclé, Roger Reynaud, Abdelaziz Kallel and Ahmed Ben Hamida</i>	19
<b>DFM-147</b>	Image Pansharpening: Comparison of Methods Based On Multiresolution Analysis and Component Substitution <i>Hind Hallabia, Abdelaziz Kallel and Ahmed Ben Hamida</i>	25
<b>16:30 – 18:00</b> <b>ROOM 2</b>		
<b>Regular Session (RST-C2)</b> <b>IMAGE AND VIDEO PROCESSING</b> <b>Chairman : Najoua ESSOUKRI-AMARA &amp; Hassene SIDDIK</b>		
<b>IVP-107</b>	Copy –Move image forgery detection based on sift descriptors and SVD-matching <i>Takwa Chihaoui, Sami Bourouis and Kamel Hamrouni</i>	
<b>IVP-135</b>	Components level parallelism for the intra prediction encoding chain of H.64/AVC HD resolution on MPSOC technology <i>Nidhameddine Belhadj, Med Ali Ben Ayed, Zied Marrakchi, Habib Meherz and Nouri Mamsoudi</i>	
<b>IVP-115</b>	Boosted classifier based on stochastic approach :application to pattern recognition <i>Wissal Drira and Faouzi Ghorbel</i>	
<b>IVP-117</b>	hypovigilance detection by calculating and analyzing a spatio-temporal features of the face components based on 3D head orientation <i>Belhassen Akrouf and Walid Mahdi</i>	
<b>IVP-110</b>	Towards an intelligent wheelchair IHM systems <i>Imen Klabi, Mohamed Slim Masmoudi and Mohamed Masmoudi</i>	
<b>16:30 – 18:00</b> <b>ROOM 3</b>		
<b>Regular Session (RST-C3)</b> <b>MODELING IN SIGNALS AND IMAGES</b> <b>Chairman : Dorra SELLAMI MASMOUDI &amp; Mohamed BEN SLIMA</b>		
<b>MSI-56</b>	A hybrid method for HRV analysis <i>Ahmed Bouziane and Benabdellah Yagoubi</i>	
<b>MSI-51</b>	State of the art of EEG-FMRI fusion information <i>Sabrina Belhadj, Ahmed Zoubir Foitih and Ahmed Abdelmalik Taleb</i>	

<b>MSI-136</b>	Combining contour matching and visual hull information for 3D reconstruction of archeological objects <i>Maweheb Saidani and Faouzi Ghorbel</i>
<b>MSI-80</b>	Cascade sliding mode control applied to a photovoltaic water pumping with maximum power tracker <i>Rym Marouani, Mohamed Adel Sellami and Abdelkader Mami</i>
<b>MSI-3</b>	In RKHS space identification of non linear system using kernel canonical correlation analysis <i>Nadia Souilem</i>

<b>PANEL DISCUSSION</b>	
<b>18:00-19:00</b>	
<b>ROOM 1</b>	<b>Panel 1 : MEDICAL IMAGES AND TECHNOLOGIES</b> <b>Speaker: Hassen Foued ELLOUZE (Computer Systems – Clinisys, TUNISIE)</b> <b>Chairman: Lamia SALLEMI &amp; Mohamed BEN SLIMA</b>
<b>ROOM 2</b>	<b>Panel 2 : TRENDS IN RFID TECHNOLOGIES</b> <b>Speaker: Habib HMAM (Université de Moncton, CANADA)</b> <b>Chairman: Ali GHARSALLAH &amp; Hamadi GHARIANI</b>
<b>ROOM 3</b>	<b>Panel 3 : TELEDETECTION &amp; TECHNOLOGIES</b> <b>Chairman: Sylvie LE-HEGARAT &amp; Rima GUIDARA</b>

**Wednesday March 19, 2014**

<p><b>9:00 – 10:00</b></p> <p><b>ROOM 0</b></p>	<p><b>PLENARY SESSION</b></p> <p>Chairman: Basel SOLAIMAN &amp; Ali GHARSALLAH</p> <p><b>4<sup>th</sup> Plenary Session</b></p> <p><b>“Recent Advances in Automatic Speech Recognition”</b></p> <p><b>by Jean-Paul HATON (Institut Universitaire de France, LORIA – Université de Lorraine, Nancy, France)</b></p>
<p><b>10:00 – 10:30</b></p>	<p><b>Coffee Break</b></p>

<p><b>10:30 – 12:00</b></p> <p><b>ROOM 0</b></p>	
<p><b>Regular Session (RSW-A0)</b></p> <p><b>SPEECH AND AUDIO PROCESSING</b></p> <p><b>Chairman : Marie Christine HATON &amp; Leila BELLTAIFA</b></p>	
<p><b>SAP-68</b></p>	<p>Impact of gender and emotion type in dialogue emotion recognition</p> <p><i>Farah Chenchah and Zied Lachiri</i></p>
<p><b>SAP-72</b></p>	<p>Under-determined reverberant blind source separation using excitation sources characteristics</p> <p><i>Mariem Bouafif and Zied Lachiri</i></p>
<p><b>SAP-69</b></p>	<p>Speech enhancement using perceptual multiband Wiener filter</p> <p><i>Sana Alaya, Novlene Zoghlami and Zied Lachiri</i></p>
<p><b>10:30 – 12:00</b></p> <p><b>ROOM 1</b></p>	
<p><b>Regular Session (RSW-A1)</b></p> <p><b>IMAGE AND VIDEO PROCESSING</b></p> <p><b>Chairman : Dorra SELLAMI-MASMOUDI &amp; Achraf MAKHLOUFI</b></p>	
<p><b>IVP-119</b></p>	<p>3D face recognition using blocked discrete cosine transform</p> <p><i>Nadjet Radji, Dalila Cherifi and Arab Azrar</i></p>
<p><b>IVP-152</b></p>	<p>Multi-signature robust video watermarking</p> <p><i>Wiem Trabelsi and Mohamed Heny Selmi.</i></p>
<p><b>IVP-73</b></p>	<p>Texture defect detection method based on-H image and hoteling model T2</p> <p><i>Ali Rebhi, Sabeur Abid and Farhat Fnaeich</i></p>
<p><b>IVP-28</b></p>	<p>A high performance MQ decoder architecture JPEG2000</p> <p><i>Layla Horrigue, Toufik Saidani, Refka Ghodhbane and Mohamed Atri</i></p>
<p><b>10:30 – 12:00</b></p> <p><b>ROOM 2</b></p>	
<p><b>Regular Session (RSW-A2)</b></p> <p><b>REMOTE SENSING AND APPLICATIONS</b></p> <p><b>Chairman : Amel BEN AZZA &amp; Abdelaziz KALLEL</b></p>	
<p><b>RSA-32</b></p>	<p>Analysis of optical remote sensing potential for yields of cereals estimation</p> <p><i>Aicha Chahbi, Mehrez Zribi, Zohra Lili Chabaane, Benoit Duchemain and Bernard Mougnot</i></p>



<b>RSA-39</b>	SVM spatio-temporal classification of HR satellite image time series using graph based kernel <i>Safa Rejichi and Ferdaous Chaabane</i>
<b>RSA-98</b>	Using a time series of Landsat TM data for digital mapping to fill information gaps in topsoil texture central Tunisia <i>Marouen Shabou, Bernard Mougnot, Zohra Lili Chabaane, Christian Walter, Gilles Boulet, Nadhira Ben Aissa and Mehrez Zribi</i>
<b>RSA-33</b>	Using the dual approach of FAO-56 combined with multi-sensor remote sensing for estimating the regional evapotranspiration <i>Rim Amri, Mehrez Zribi, Zohra Lili Chabaane, Camille Szczypta, Jean Cristophe Calvet and Gilles Boulet</i>
<b>RSA-85</b>	Bias correction of multilook effect on anisotropy in polarimetric SAR decomposition <i>Yahia Mohamed, Chabir Marwa, Khalfa Faten and Aguli Taoufik</i>
<b>RSA-86</b>	Adaptive based method for multispectral image pansharpening :application to quick bird data sets <i>Tijani Delleji, Abdelaziz Kallel and Ahmed Ben Hamida</i>
<b>10:30 – 12:00</b> <b>ROOM 3</b>	
<b>Regular Session (RSW-A3)</b> <b>MEDICAL IMAGES AND APPLICATIONS</b> <b>Chairman : Ali Mohammad DJAFARI &amp; Khalil CHTOUROU</b>	
<b>MIA-61</b>	A non-linear stretching image enhancement technique for microcalcification detection <i>Mouna Zouari, Alima Dammak Masmoudi and Dorra Sellami Masmoudi</i>
<b>MIA-106</b>	Image ECG Representation of Normal Sinus Rhythm <i>Kawther Soualhi, Afef Elloumi and Nouredine Ellouze</i>
<b>MIA-21</b>	Unsupervised image segmentation method for evaluating Estrogen receptors status in breast tissue sections. <i>Aymen Mouelhi, Mounir Sayadi and Farhat Fnaiech</i>
<b>MIA-108</b>	Color image segmentation using a modified fuzzy C-Means technique and different color spaces: application in the breast cancer cells images <i>Rafika Harrabi and Ezzedine Ben Braiek</i>
<b>MIA-142</b>	PGVF-ACM Automatic Segmentation of PET Images for Breast Cancer characterization <i>Fatma Sahnoun, Wassim Zouch ,Ines Ktata, Lamia Salllemi and Ahmed Ben Hamida</i>
<b>12:00 – 12:30</b> <b>Conference Closing</b>	