

ATSIP'2018 CONFERENCE TECHNICAL PROGRAM

Wednesday March 21, 2018

8:00 – 18:00

REGISTRATION OPEN

9:30 – 10:00

COFFEE BREAK

10:30 – 12:30

**PLENARY
ROOM**

PLENARY SESSION

Chairmen's: **Basel SOLAIMAN** (IMT-Atlantique, FRANCE) & **Mehrez ZRIBI** (CESBIO, FRANCE)

1st Plenary Session : 10:30-11:30

*"Wave Propagation, EM Interaction and Remote Sensing
Application to the Observation and Extraction of Parameters of
the Sea Surface"*

by **Ali KHENCHAF** (Lab STICC Laboratory, ENSTA Bretagne, FRANCE)

Chairmen's: **Jean-Philippe GASTELLU-ETCHERGORRY** (CESBIO, FRANCE)
& **Abdelaziz KALLEL** (CRNS, TUNISIA)

2nd Plenary Session: 11:30-12:30

"Feature Analysis and Unsupervised Learning"

by **Mauro DALLA MURA** (Grenoble INP, GIPSA-Lab, FRANCE)

Wednesday March 21, 2018 : 12:30 – 14:00

LUNCH

14:00 – 14:30

ATSIP CONFERENCE OPENING CEREMONY

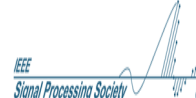
Wednesday March 21, 2018 : 14:30 – 16:00

ROOM 1

Regular Session (RSW-A1)

REMOTE SENSING & APPLICATIONS (RSA-S1)

Chairmen's: **Ali KHENCHAF** (ENSTA Bretagne, FRA) & **Abdelmalik TOUMI** (ENSTA Bretagne,



FRA)	
RSA-2	Land Change Detection Using Multivariate Alteration Detection and Chi Squared Test Thresholding <i>Ahmed Tahraoui, Radja Kheddami, Abdenour Bouakache and Aichouche Belhadj Aissa</i>
RSA-40	GNSS Reflectometry for Land Surfaces Applications <i>Mehrez Zribi and Pascal Fanise</i>
RSA-20	Target Classification Using Convolutional Deep Learning and Auto-Encoder Models <i>Sarra Zaied, Abdelmalek Toumi and Ali Khenchaf</i>
RSA-29	Evaluation of the optimal number of clusters for unsupervised flood mapping using Interferometric Synthetic Aperture RADAR data <i>Chayma Chaabani and Riadh Abdelfattah</i>
RSA-147	A Comparison of Big remote sensing Data Processing with Hadoop MapReduce and Spark <i>Imen. Chebbi, N. Melouli, W. Boulila and Imed Riadh Farah</i>
RSA-96	Time Series of Urban Radiative Budget Maps Derived from EO Satellites Using a Physical Remote Sensing Model <i>Jean-Philippe Gastellu-Etchegorry, Lucas Landier, Ahmad Al Bitar, Zina Mitraka and Nektarios Chrysoulakis</i>

Wednesday March 21, 2018 : 14:30 – 16:00

ROOM 2

Regular Session (RSW-A2)

MEDICAL IMAGES & APPLICATIONS (MIA-S1)

Chairmen's: Lamia SELLAMI (ISBS, ATMS, TUN) & Khalil CHTOUROU (CHU Sfax, TUN)

MIA-4	Optimization of bone SPECT image reconstruction based on a hybrid framework <i>Afef Houimli and Issam Benmhammed</i>
MIA-32	Histogram Equalization-Based Techniques for Contrast Enhancement of MRI Brain Tumor Images: Comparative Study <i>Hiba Mzoughi, Ines Njeh and Mohamed Ben Slima</i>
MIA-33	Glioblastoma MRI Exploration Based on Segmentation Methods' Comparison: Towards an Advanced Clinical Aided Tools <i>Hana Bouchouicha Hamdane, Olfa Ghribi, Ahmed Ben Hamida, Chokri Mhiri, Mariem Dammak, Kheireddine Ben Mahfoudh and Omar Kammoun</i>
MIA-54	Semi-Automatic Algorithm For 3D Volume Reconstruction of Inner Ear Structures Based On CT-Scan Images <i>Adil Bouchana, Jamal Kharroubi and Mohammed Ridal Ridal</i>
MIA-141	A Comparative analyses of MRI Contrast Enhancement technique based on Traditional Gamma Correction and Adaptive Gamma Correction: Case of Multiple Sclerosis pathology <i>Mouna Sahnoun, Fathi Kallel and Ahmed Ben Hamida</i>

Wednesday March 21, 2018 : 14:30 – 16:00

ROOM 3

Regular Session (RSW-A3)

IMAGES & VIDEO PROCESSING (IVP-S1)

Chairmen's : Mounir SAYADI (ENSIT, TUN) & Zied LACHIRI (ENIT, TUN)

IVP-5	JEM-Post HEVC vs. HM-H265/HEVC performance and subjective quality comparison based on QVA metric <i>Rihab Yousfi, Mohamed Ben Amor, Taheni Damak, Mohamed Ali Ben Ayed and Nouri</i>
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	<i>Masmoudi</i>
IVP-6	A Computer Vision System to Detect Diving Cases in Soccer <i>Hana' Al-Theiabat and Inad Aljarrah</i>
IVP-19	A Novel Incremental Face Recognition Method Based on Nonparametric Discriminant Model <i>Soula Arbia, Ben Said Salma, Ksantini Riadh and Lachiri Zied</i>
IVP-26	Analysis of descriptors relevant to image search by content <i>Amira Slimani and Zied Lachiri</i>
IVP-36	Long-term superpixel tracking using unsupervised learning and multi-step integration <i>Pierre-Henri Conze, Florian Tilquin, Mathieu Lamard, Fabrice Heitz and Gwenolé Quellec</i>
Wednesday March 21, 2018 : 16:00 – 16:30 <u>COFFEE BREAK</u>	

Wednesday March 21, 2018 : 16:30 – 18:00 <u>ROOM 2</u>	
Regular Session (RSW-B1) MEDICAL IMAGES & APPLICATIONS (MIA-S2) Chairmen's : Ahmed BEN HAMIDA (ENIS, TUN) & Najwa ESSOUKRI BEN AMARA (ENISO, TUN)	
MIA-9	Semi-Automatic Lymph Node Segmentation and Classification using Cervical Cancer MR Imaging <i>Nesrine Bnoui, Olfa Mechi, Islem Rekik, Mohamed Salah Rhim and Najoua Essoukri Ben Amara</i>
MIA-138	Comparing the scalogram images of the Beta-Globin gene in Homosapiens and Pan Troglodytes <i>Imen Messaoudi, Afef Elloumi Oueslati and Zied Lachiri</i>
MIA-59	Mammographic Image Based Possibilistic ontological representation <i>Yosra Ben Salem, Rihab Idoudi, Karim Saheb Etabaa, Kamel Hamrouni and Basel Solaiman</i>
MIA-82	Electromagnetic study of the breast for biomedical applications <i>Marwa Slimi, Bassem Jmai, Paulo Mendes and Ali Gharsallah</i>
MIA-86	Segmentation of low-grade gliomas based on the growing region and level sets techniques <i>Rahima Zaouche, Ahror Belaid, Basel Solaiman, Douraied Ben Salem and Souhil Tliba</i>
MIA-100	Towards an Advanced and Automated MRI Glioma Segmentation Based on Comparative Study between Supervised Classification Methods <i>Aymen Bougacha, Jihene Boughariou, Omar Kammoun, Khairedine Ben Mahfoudh, Chokri Mhiri and Ahmed Ben Hamida</i>
Wednesday March 21, 2018 : 16:30 – 18:00 <u>ROOM 3</u>	
Regular Session (RSW-B2) IMAGES & VIDEO PROCESSING (IVP-S2) Chairmen's : Ali DOUIK (ENISO, TUN) & Mohamed Amin BENATIA (LINEACT-CESI, FRA)	
IVP-51	Robust Watermarking Scheme Integrated into JPWL based on Turbo-Trellis-Coded Quantization <i>Hanen Rhayma, Achraf Makhloufi and Ahmed Ben Hmida</i>

IVP-73	Scene classification using new variant of LTP <i>Leila Kabbai, Mehrez Abdellaoui and Ali Douik</i>
IVP-88	New method of registration based on the theory of possibility <i>Wissal Ben Marzouka, Basel Solaiman, Atef Hammouda, Khaled Bsaies and Zouhour Ben Dhief</i>
IVP-91	Color Image Segmentation with Bounded Generalized Gaussian Mixture Model and Feature Selection <i>Ines Channoufi, Sami Bourouis, Nizar Bouguila and Kamel Hamrouni</i>
IVP-98	Fall detection based on Posture Analysis and Support Vector Machine <i>Abderrazak Iazzi, Mohammed Rziza and Rachid Oulad Haj Thami</i>
IVP-118	Semi Fragile Watermarking Scheme for Image Recovery in Wavelet Domain <i>Hanen Rhayma, Achraf Makhloufi, Habib Hamam and Amed Ben Hmida</i>

Wednesday March 21, 2018
PANEL DISCUSSION

18:30-19:30

ROOM 2

Privacy-Preserving Cloud Computing

Speaker's: **Gerard CHOLLET** (CNRS-SAMOVAR, Institut Mines-Telecom, FRANCE) & **Bhiksha RAJ** (Carnegie Mellon University, Pittsburgh, PA, USA)

Chairmen's: **Mondher FRIKHA** (ENET'Com, TUN) & **Zied LACHIRI** (ENIT, TUN)

ATSIP'2018 TECHNICAL PROGRAM

Thursday March 22, 2018

<p>9:00 – 10:00</p> <p style="color: blue; text-decoration: underline;">PLENARY ROOM</p>	<p>PLENARY SESSION</p> <p>Chairmen's: Gerard CHOLLET (CNRS-SAMOVAR, Inst. Mines-Telecom, FRANCE) & Rachid JENNANE (U. Orleans, FRANCE)</p> <p style="color: red; text-decoration: underline;">3rd Plenary Session</p> <p style="color: green; text-decoration: underline;">“End-to-end Speech Recognition with Deep Neural Networks”</p> <p>by Bhiksha RAJ (Carnegie Mellon University, Pittsburgh, PA, USA)</p>
<p>10:00 – 10:30</p> <p style="color: blue; text-decoration: underline;">COFFEE BREAK</p>	

<p>Thursday March 22, 2018: 10:30 – 12:30</p> <p style="color: blue; text-decoration: underline;">ROOM 2</p>	
<p>Special Session (SST-A1)</p> <p style="color: green; text-decoration: underline;">UNCONVENTIONAL TOOLS FOR SMART SIGNAL AND IMAGE PROCESSING</p> <p>Chairmen's : Hassene SEDDIK (ENSIT, TUN) & Nawres KHLIFA (ISTM, TUN)</p>	
<p>UST-79</p>	<p>Non Blind Image Restoration Scheme Combining Parametric Wiener Filtering and BM3D Denoising Technique</p> <p><i>Zouhair Mbarki, Hassene Seddik and Ezzedine Ben Braiek</i></p>
<p>UST-81</p>	<p>Contrast enhancement and feature extraction algorithms of finger knucle print image for personal recognition</p> <p><i>Sarra Hajri, Fathi Kallel and Ahmed Ben Hamida</i></p>
<p>UST-87</p>	<p>Efficient image texture and structure preservation via Rapid diffusion function with accelerator</p> <p><i>Sondes Tebini, Hassene Seddik and Ezzedine Ben Braiek</i></p>
<p>UST-116</p>	<p>Partial volume effect correction in PET image using iterative deconvolution and shearlet transform</p> <p><i>Hajer Jomaa, Rostom Mabrouk and Nawres Khlifa</i></p>
<p>UST-119</p>	<p>Video Speckle Noise Reduction using Robust Diffusion Tensor in Shearlet domain</p> <p><i>Olfa Moussa and Nawres Khlifa</i></p>
<p>Thursday March 22, 2018: 10:30 – 12:30</p> <p style="color: blue; text-decoration: underline;">ROOM 3</p>	
<p>Regular Session (RST-A2)</p> <p style="color: green; text-decoration: underline;">MODELING IN SIGNAL & IMAGES (MSI-S1)</p> <p>Chairmen's: Rachid JENNANE (U. Orleans, FRA) & Mounir SAYADI (ENSIT, TUN)</p>	
<p>MSI-60</p>	<p>The estimation of buried empty cylindrical tubes characteristics using GPR</p> <p><i>Rim Ghozzi, Samer Lahoua and Chokri Souani</i></p>

MSI-62	Partical filtering For Orientation Determining using Inertial sensors IMU <i>Salma Habbachi, Mounir Sayadi and Nasser Rezzoug</i>
MSI-66	Effective monitoring of an air quality network <i>Raoudha Baklouti, Ahmed Ben Hamida, Majdi Mansouri, Mohamed-Faouzi Harkat, Mohamed Nounou and Hazem Nounou</i>
MSI-83	Fault Detection in a Wastewater Treatment Plant using UKF-based Optimized EWMA Technique <i>Baklouti Imen, Mansouri Majdi, Ben Hamida Ahmed, Nounou Mohamed and Nounou Hazem</i>
SNC-31	Efficient Implementation Of HEVC Decoder On Zynq SoC Platform <i>Lella Aicha Ayadi, Hassen Loukil, Mohamed Ali Ben Ayed and Nouri Masmoudi</i>
MSI-130	Improved Shewhart chart for damage detection in Structural Health Monitoring <i>Marwa Chaabane, Majdi Mansouri, Mohamed Nounou, Hazem Nounou and Ahmed Ben Hamida</i>
MSI-150	A Bayesian Approach for Parameter Estimation in Railway Systems <i>Nouha Jaoua, Philippe Vanheeghe, Nicolas Navarro, Olivier Langlois and Marius Iordach</i>
Thursday March 22, 2018: 12:30 – 14:00	
LUNCH	

Thursday March 22, 2018: 14:00 – 15:30	
<u>ROOM 2</u>	
Regular Session (RST-B1)	
MEDICAL IMAGES & APPLICATIONS (MIA-S3)	
Chairmen's : AICHA BOUZID (ENIT, TUN) & Zied LACHIRI (ENIT, TUN)	
MIA-97	Brief review of partial volume corrections in PET/CT for lung cancer assessment <i>Sourour Gargouri, Aymen Mouelhi, Mounir Sayadi, Salam Labidi, Majdi Mahersi and Saoussen Zayed</i>
MIA-129	Microcalcifications Detection from mammographic images based on Region Growing and variational energy convergence <i>Asma Touil, Karim Kalti, Basel Solaiman and Mohamed Ali Mahjoub</i>
MIA-131	Genetic and practical swarm optimisation algorithms for patient-specific seizure detection systems <i>Sabrina Ammar, Omar Trigui and Mohamed Senouci</i>
MIA-7	Wavelet Based Feature Extraction Method for Breast Cancer Diagnosis <i>Sarah Benmazou and Hayet Farida Merouani</i>
MIA-143	Comparison Study for Computer Assisted Detection and Diagnosis 'CAD' systems Dedicated to Prostate Cancer Detection Using MRImp Modalities <i>Afef Latrach, Rania Trigui, Hanen Chenini, Lamia Sellami and Ahmed Ben Hamida</i>
MIA-146	Breast Tumors Segmentation using Otsu method and K-means <i>Adel Dallali, Salim El Khediri, Amel Slimen and Abdennaceur Kachouri</i>
Thursday March 22, 2018: 14:00 – 15:30	
<u>ROOM 3</u>	
Regular Session (RST-B2)	

REMOTE SENSING & APPLICATIONS (RSA-S2)

Chairmen's: Mohamed FARAH (ISAMM, TUN) & J. Philippe GASTELLU-ETCHERGORY (CESBIO, FRA)

RSA-56	Performance investigation of selected NoSQL databases for massive remote sensing image data storage <i>Yosra Hajjaji and Imed Riadh Farah</i>
RSA-108	Towards a Hybrid Approach for Remote Sensing Ontology Construction <i>Bochra Nasri, Hafedh Nefzi and Mohamed Farah</i>
RSA-148	Leaf Polarized 3-D Vector RT Modeling Simulation based on Monte Carlo sampling <i>Abdelaziz Kallel</i>
RSA-115	Olive Biophysical Property Estimation Based on SENTINEL-2 Image Inversion <i>Hana Abdelmoula, Abdelaziz Kallel, Jean-Louis Roujean, Sihem Chaabouni, Kamel Gargouri, Mohamed Ghrab, Jean-Philippe Gastellu-Etchergory and Nicolas Lauret</i>
RSA-142	Detection of Forest Strata Volume Using LiDAR Data <i>Ameni Mkaouar, Abdelaziz Kallel, Rima Guidara and Zouhaier Ben Rabah</i>
RSA-149	Forecasting of the Normalized Difference Vegetation Index Time Series in Jbeniana <i>Marwa Hachicha, Mahdi Louati and Abdelaziz Kallel</i>

Thursday March 22, 2018: 15:30 – 16:00

COFFEE BREAK

Thursday March 22, 2018: 16:00 – 18:00

PLENARY ROOM

POSTER SESSION

Chairmen's:

SAP-12	Applying Long Short-Term Memory concept to hybrid "CD-NN-HMM" model for keywords spotting in continuous speech <i>Hinda Dridi and Kais Ouni</i>
SAP-52	Investigation of the phase importance in "LF Model" <i>Anis Ben Aicha</i>
SAP-63	Real-time implementation of an optimized speech compression system in STM32F4 Discovery board <i>Souha Bousselmi, Safa Saoud and Adnen Cherif</i>
SAP-85	Decryption of BSS based encrypted speech without a priori knowledge of the key signal <i>Anissa Farhati, Anis Ben Aicha and Ridha Bouallegue</i>
SAP-125	Non-invasive identification and classification of voice pathologies by speech processing <i>Bouafif Lamia and Ellouze Noureddine</i>
IVP-76	Superpixel Based Segmentation of Historical Document Images Using a Multiscale Texture Analysis <i>Emna Soyed, Ramzi Chaieb and Karim Kalti</i>
IVP-94	A New 3D Face Recognition Approach Based on Tensor Representation and Multi-Scale Locals Features <i>Mohcene Bessaoudi, Mebarka Belahcene, Abdelmalik Ouamane and Salah Bourennane</i>
IVP-105	Neural controller of autonomous driving mobile robot using embedded camera <i>Hajer Omrane, Mohamed Slim Masmoudi and Mohamed Masmoudi</i>
IVP-122	An Optimized Hardware Implementation of 4-point Adaptive Multiple Transform design for

	post-HEVC <i>Ahmed Kammoun, Sonda Ben Jdidia, Fatma Belghith, Wassim Hamidouche, Jean François Nezan and Nouri Masmoudi</i>
IVP-145	State-of-the-art Face Recognition Performance Using Publicly Available Software and Datasets <i>Mohamed Amine Hmani and Dijana Petrovska-Delacrétaz</i>
RSA-14	Electromagnetic Characterization of a Polluted Maritime Surface <i>Ghanmi Helmi, Ali Khenchaf and Fabrice Comblet</i>
RSA-18	Radar Target Recognition Using Time-Frequency Analysis <i>J.C. Cexus and Abdelmalek Toumi</i>
RSA-30	An adaptive semantic dimensionality reduction approach for hyperspectral imagery classification <i>Rawaa Hamdi, Akrem Sellami and Imed Riadh Farah</i>
RSA-35	Target Recognition in ISAR Images based on Relative Phases of Complex Wavelet Coefficients and Sparse Classification <i>Ayoub Karine, Abdelmalek Toumi, Ali Khenchaf and Mohammed El Hassouni</i>
RSA-43	Monitoring of surface soil moisture based on optical and radar data over agricultural fields <i>Safa Bousbih, Mehrez Zribi, Zohra Chabaane Lili, Nicolas Baghdadi, Bernard Mougenot and Pascal Fanise</i>
RSA-103	Comparative Study of Dimensionality Reduction Methods for Remote Sensing Image Classification <i>Akrem Sellami and Mohamed Farah</i>
RSA-134	A Symbiotic Organisms Search Algorithm for Feature Selection in Satellite Image Classification <i>Zaineb Jaffel and Mohamed Farah</i>
MSI-106	A Frequent Pattern Mining for Online Handwriting Recognition <i>Chekib Gmati, Oumaima Sliti, Habib Hamam and Zied Achiri</i>
SCN-17	Ergodic Capacity for Fading Channels in Cognitive Radio Networks <i>Raouia Masmoudi</i>
MIA-13	A new algorithm using temporal filtering technique for cardiac motion estimation in ultrasound image <i>Saida Khachira, Fathi Kallel and Ahmed Ben Hamida</i>
MIA-67	Left ventricle detection in echocardiographic videos <i>Attia Dhouha and Benazza-Benyahia Amel</i>

Thursday March 22, 2016

PANEL DISCUSSION

18:00-19:00

<u>ROOM 1</u>	<p><i>Earth Observation from Research to Innovation</i></p> <p>Speaker's: J. Philippe GASTELLU-ETCHERGORRY (CESBIO, FRA) & Abdelaziz KALLEL (CRNS, TUN)</p> <p>Chairmen's: Mauro DALLA MURA (Grenoble INP, GIPSA-Lab, FRA) & Imed Riadh FARAH (ISAMM, TUN)</p>
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ATSIP'2018 TECHNICAL PROGRAM

Friday March 23, 2018

<p>9:00 – 10:00</p> <p><u>PLENARY ROOM</u></p>	<p>PLENARY SESSION</p> <p>Chairmen's: Habib HAMAM (U. Moncton, CANADA) & Ali KHENCHAF (ENSTA Bretagne, FRANCE)</p> <p>4th Plenary Session</p> <p>"Advanced Clinical Aided Tools for Tumors' Characterization and Exploration"</p> <p>by Ahmed BEN HAMIDA (ENIS, ATMS, TUNISIA)</p>
<p>10:00 – 10:30</p> <p>COFFEE BREAK</p>	

Friday March 23, 2018 : 10:30 – 12:30

ROOM 2

Regular Session (RSF-A1)

DATA FUSION AND MODELING (DFM-S1)

Chairmen's: **Basel SOLAIMAN** (IMT-Atlantique, FRA) & **Imed Riadh FARAH** (ISAMM, TUN)

DFM-23	Detection of Moroccan Coastal Upwelling Using The Alpha Blending Fusion Technique of Sea Surface Chlorophyll Images and Sea Surface Temperature Images <i>Zineb El Abidi, Khalid Minaoui, Ayoub Tamim and Hicham Laanaya</i>
DFM-38	Evidence Theory Data Fusion based-Method for Cyber-Attack detection <i>Takwa Omrani, Adel Dallali and Bilgacem Chibani Rhaimi</i>
DFM-46	<i>Qualitative semantic spatio-temporal reasoning based on description logics for modeling dynamics of spatio-temporal objects in satellite images</i> <i>Fethi Ghazouani, Imed Riadh Farah and Basel Solaiman</i>
DFM-55	A Real-time Emotion Recognition System for disabled persons <i>Yassine Rabhi, Makrem Mrabet, Farhat Fnaiech and Mounir Sayadi</i>
DFM-72	A Framework for Big Data Driven Product Traceability System <i>Mohamed Amin Benatia, Victor Emmanuel De-Sa, David Baudry, Hugues Delalin and Pierre Halftermeyer</i>
DFM-104	Towards change detection in bi-temporal images using evidential conflict <i>Fatma Haouas, Zouhour Ben Dhiyf, Atef Hammouda and Basel Solaiman</i>
MSI-120	Haralick feature selection for Material rigidity recognition using ultrasound echo <i>Sonda Ammar Bouhamed, Marwa Chakroun, Imene Khanfir Kallel and Houda Derbel</i>

Friday March 23, 2018 : 10:30 – 12:30

ROOM 3

Regular Session (RSF-A2)

SPEECH AND AUDIO PROCESSING (SAP-S1)

Chairmen's : Gerard CHOLLET (Inst. Mines-Telecom, FRANCE) & Mondher FRIKHA (ENET'Com, TUN)

SAP-16	Song/Instrumental classification in traditional Tunisian music <i>Wisseem Ziadi</i>
SAP-21	Towards a Generic Approach for Automatic Speech Recognition Error Detection and Classification <i>Rahhal Errattahi, Asmaa El Hannani, Thomas Hain and Hassan Ouahmane</i>
SAP-24	On The Use of Pitch-Based Features for Fear Emotion Detection from Speech <i>Safa Chebbi and Sofia Ben Jebara</i>
SAP-25	Cancelable Speaker Verification System Based on Binary Gaussian Mixtures <i>Aymen Mtibaa, Dijana Petrovska-Delacretaz and Ahmed Ben Hamida</i>
SAP-34	A Dual-channel Speech Enhancement Method for Mobile Communications <i>Wahbi Nabi, Noureddine Aloui and Adhane Cherif</i>
SAP-93	An Investigation of Glottal Flow Parameters for Voice Pathology Detection on SVD and MEEI Databases <i>Ezzine Kadria and Frikha Mondher</i>
SAP-99	Emotion recognition in speech using MFCC with SVM, DSVM and Auto-encoder <i>Hadhami Aouani and Yassine Ben Ayed</i>

Friday March 23, 2018: 12:30 – 14:00

LUNCH

Friday March 23, 2018: 14:30 – 18:00

SOCIAL EVENTS

ATSIP'2018 TECHNICAL PROGRAM

Saturday March 24, 2018

ATSIP'2018 TECHNICAL PROGRAM	
Saturday March 24, 2018	
<p>9:00 – 10:00</p> <p style="text-align: center;"><u>ROOM 1</u></p>	<p style="text-align: center;">PLENARY SESSION</p> <p>Chairman's: Basel SOLAIMAN (IMT-Atlantique, FRANCE) & Abdelmalik TOUMI (ENSTA Bretagne, FRA)</p> <p>5th Plenary Session:</p> <p style="color: green;">“ Fusion of Information and Analytics Technologies (FIAT) for Big Data and IoT ”</p> <p>by Éloi BOSSÉ (Expertises Parafuse Inc. (Québec), and researcher, McMaster University (Hamilton), CANADA)</p>
<p>Saturday March 24, 2018: 10:00 – 10:30</p> <p style="text-align: center;">COFFEE BREAK</p>	
<p>Saturday March 24, 2018: 10:30 – 12:00</p> <p style="text-align: center;"><u>ROOM 2</u></p>	
<p>Regular Session (RSS-A1)</p> <p style="color: green;">IMAGES AND VIDEO PROCESSING (IVP-S3)</p> <p>Chairmen's: Achraf MAKHLOUFI (ENET'Com, TUN) & Moez BOUCHOUICHA (ENSIT, TUN)</p>	
IVP-47	<p>FFT Implementation and Optimization On FPGA <i>Tarek Belabed, Sabeur Jemmali and Chokri Souani</i></p>
IVP-92	<p>Weighted PCA-EFMNet: A deep learning network for Face Verification in the Wild <i>Bilel Ameer, Mebarka Belahcene, Sabeur Masmoudi and Ahmed Ben Hamida</i></p>
IVP-109	<p>Early Smoke Detection of forest wildfire video using Deep Belief Network <i>Rabeb Kaabi, Mounir Sayadi, Moez Bouchouicha, Farhat Fnaiech, Eric Moreau and Jean Marc Ginoux</i></p>
IVP-123	<p>Efficient parallelization of GMM background subtraction algorithm on a multi-core platform for moving objects detection <i>Lhoussein Mabrouk, Sylvain Huet, Said Belkouch, Dominique Houzet, Yahya, Zennayi and Abdelkrim Hamzaoui</i></p>
MIA-15	<p>Feature selection and classification using multiple kernel learning for brain tumor segmentation <i>Naouel Boughattas, Maxime Berar, Kamel Hamrouni and Su Ruan</i></p>
<p>Saturday March 24, 2018: 10:30 – 12:00</p> <p style="text-align: center;"><u>ROOM 3</u></p>	
<p>Regular Session (RSS-A2)</p> <p style="color: green;">EMBEDED SYSTEMS, RF APPLICATIONS & NETWORKS COMMUNICATIONS</p> <p>Chairmen's: Habib HAMAM (U Moncton, CAN) & Mohamed MASMoudi (ENIS, TUN)</p>	
ERC-61	<p>Real time positioning over WSN and RFID network integration <i>Safae El Abkari</i></p>

SCN-77	Cost-effective Communication through Visible Light <i>Habib Hamam and A. Jebali</i>
ERC-78	Microstrip and HMSIW Six-Port Junctions Designs and comparison <i>Lakhdhar Saousen, Harabi Ferid and Gharsallah Ali</i>
ERC-89	A Compact Split-Ring Resonator Using Spiral Technique For Near Field UHF RFID Tag <i>Mahdi Abdelkarim, Gerard Zamora, Ferran Paredes, Jordi Bonache, Ferran Martín and Ali Gharsallah</i>
ERC-112	Resolution of 2-D Time Domain Electric Field Integral Equation With RWG Functions Using Novel Mesh Technique Based on Hexagonal Mesh <i>Auns Khaled, Dorsaf Omri and Taoufik Aguil</i>

12:00 – 13:00

CONFERENCE CLOSING CEREMONY