# Technical Program

## Wednesday, 25 April 2018

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| 09:00 – 09:15 | **Opening Session:**<br>Opening address |
| 09:15 – 10:15 | **Keynote 1**: Gérard Chollet<br>**Privacy Preserving Speech Processing** |
| 10:15 – 10:30 | **Coffee break** |
| 10:30 - 12:10 | **Oral Session 1: Speech analysis**　　　　　　Chair: Gérard Chollet |
| 10:30 – 10:50 | Naima Zerari, Samir Abdelhamid, Hassen Bouzgou and Christian Raymond. Bi-directional Recurrent End-to-End Neural Network Classifier for Spoken Arab Digit Recognition |
| 10:50 – 11:10 | Hasna Zaouali, Béatrice Vaxelaire, Christian Debry, Philippe Schultz, Guy Bronner and Rudolph Sock. An acoustic study of plosive consonants produced by patients with and without reconstruction after partial or total glossectomy. Focusing on VOT |
| 11:10 – 11:30 | Ahmed Krobba, Mohamed Debyeche and Sid Ahmed Selouani. Robust Speaker Verification System in Acoustic Noise Mobile by using Multitaper Gammaton Hilbert Envelope Coefficients |
| 11:30 – 11:50 | Ghribi Khadidja, Djendi Mohamed and Berkani Daoud. A Wavelet-NLMS Algorithm implemented in FBSS structure for Acoustic Noise Reduction and Speech Enhancement |
| 11:50 – 12:10 | Fayssal Bouarourou, Tomoki Koya, Saïd Bouzidi, Béatrice Vaxelaire and Rudolph Sock. Cross-Language and Language-Specific Acoustic Correlates of Gemination in Berber and Japanese |
| 12:10 – 13:10 | **Lunch break** |
| 13:10 – 14:10 | **Oral Session 2: Languages & Resources**　　　　Chair: Mourad Abbas |
| 13:10 – 13:30 | Cilia Lachichi, Chahrazad Bendiaf, Lamia Berkani and Ahmed Guessoum. An Arabic WordNet Enrichment Approach using Machine Translation and External Linguistic Resources |
| 13:30 – 13:50 | Olcay Taner Yıldız, Koray Ak, Gökhan Ercan, Ozan Topsakal and Cengiz Asmazoğlu. A Multilayer Annotated Corpus for Turkish |
| 13:50 – 14:10 | Sinan Akçakaya and Olcay Taner Yıldız. An All-Words Sense Annotated Turkish Corpus |
| 14:10 – 15:10 | **Keynote 2: Djamel Bouchaffra**<br>**Artificial Intelligence and Machine Learning Challenges** |
| 15:10 – 17:10 | **Oral Session3: Information Extraction**　　　　Chair: Ahmed Guessoum |
| 15:10 – 15:30 | Abed Alhakim Freihat, Gabor Bella, Hamdy Mubarak and Fausto Giunchiglia. Corpus-based Solution to the Arabic Low Level NLP Tasks |
| 15:30 – 15:50 | Osama Hamed and Torsten Zesch. Exploring the Effects of Diacritization on Arabic Frequency Counts |
| 15:50 – 16:10 | Fayçal Nouar and Hacene Belhadef. Evaluation of topic segmentation algorithms on Arabic texts |
| 16:10 – 16:30 | Bendib Issam and Laouar Mohamed Ridda. A Semantic Indexing Approach of Multimedia Documents Content Based Partial Transcription |
| 16:30 – 16:50 | Stephen Taylor and Tomáš Brychcín. Arabic Word Analogies and Semantics of Simple Phrases |

## Thursday, 26 April 2018

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| 08:30 – 09:30 | **Keynote 3**: Alberto Barrón-Cedeño<br>**Assessing Text Similarity across Languages** |
| 09:30 – 10:30 | **Oral Session 4: Dialects Processing**　　　　**Chair: Fayssal Bouarourou** |
| 09:30 – 09:50 | Areej Alshutayri and Eric Atwell. Arabic Dialects Annotation using an Online Game |
| 09:50 – 10:10 | Mohsen Moftah, Waleed Fakhr and Salwa El Ramly. Arabic Dialect Identification based on Motif Discovery Using GMM-UBM with different Motif Lengths |
| 10:10 – 10:30 | Soumia Bougrine, Hadda Cherroun and Ahmed Abdelali. Spoken Arabic Dialect Identification using Prosody: Case of Algerian Sub-Dialects |
| 10:30 – 11:00 | **Coffee Break** |
| 11:00– 13:10 | **Oral Session 5: Language Processing**　　　　**Chair: Hadda Cherroun** |
| 11:00 – 11:20 | Nacer Eddine Benzebouchi, Nabiha Azizi and Monther Aldwairi. Multi-Classifier System for Authorship Verification task using Word Embeddings |
| 11:20 – 11:40 | El Moatez Billah Nagoudi, Hadda Cherroun and Ali Alshehri. Intelligent Plagiarism Detection in Arabic Text Documents |
| 11:40 – 12:00 | M'Hamed Mataoui, Tadj Eddine Bendali, Imad Tellache, Abdelghani Bakhtouchi and Omar Zelmati. A New Syntax-Based Aspect Detection Approach for Sentiment Analysis in Arabic Reviews |
| 12:00 – 12:20 | Mostafa Elaraby, Ahmed Tawfik, Mahmoud Khaled, Hany Hassan and Aly Osama. Gender Aware Spoken Language Translation Applied to English-Arabic |
| 12:20 – 12:40 | John Lee and Chak Yan Yeung. Automatic Prediction of Vocabulary Knowledge for Learners of Chinese as a Foreign Language |
| 12:40 – 13:40 | **Lunch break** |
| 13:40 – 15:00 | **Poster Session**<br><br>Mourad Abbas and Dhia El Hak Megtouf. Towards a practical and efficient WER Calculation for Arabic ASR systems<br><br>Mazen Nabil Elagamy, Clare Stanier and Bernadette Sharp. Stock Market Random Forest-Text Mining System Mining Critical Indicators of Stock Market Movements<br><br>Ghribi Khadidja, Djendi Mohamed and Berkani Daoud. Thresholding Wavelet-based Forward BSS Algorithm for Speech Quality Enhancement and Complexity Reduction<br><br>Benaissa Kebir and Mourad Abbas. Differences between (dād) and (zā') in Pronunciation and Writing: a Theoretical Study<br><br>Ouassila Kenai, Nassim Asbai, Siham Ouamour, Mhania Guerti and Salim Djeghiour. Speaker Diarization and Detection System using A Priori Speaker Information<br><br>Messaouda Boumaraf and Fatiha Merazka. Partial and Full Speech Encryption Schemes Based on 1D Chaotic Maps for AMR-WB Codec<br><br>Dalila Bouras, Mohamed Amroun and Hakim Bendjanna. A Review of Recent Aspect Extraction Techniques for Opinion Mining Systems<br><br>Mohamed Dahmani and Mhania Guerti. Glottal Signal Parameters as features set for Neurological voice disorders diagnosis using K-Nearest Neighbors (KNN)<br><br>Adil Bakri, Abderrahmane Amrouche and Mourad Abbas. An Improved Packet Loss Concealment Technique a Condition Packet Loss for Speech Transmission in VOIP<br><br>Randa Benkhelifa and Nasria Bouhyaoui. A Demographic-based Approach for Improved Content Categorization in social networking<br><br>Ahmed Merrad, Slami Saadi, Ali Benziane and Ahmed Hafaifa. Robust Blind Approach for Digital Speech Watermarking<br><br>Yaaqoub Bennane, Abdellah Kacha and Francis Grenez. A Synthesizer of Diplophonic Voices<br><br>Fisli Sofiane, Djendi Mohamed and Guessoum Abderrezak. Modified Predator-Prey Particle Swarm Optimization Based Two-Channel Speech Quality Enhancement by Forward Blind Source Separation<br><br>Ankush Khandelwal, Sahil Swami, Syed Sarfaraz Akhtar and Manish Shrivastava. A Dataset for Gender Prediction in English-Hindi Code-Mixed Social Media Texts<br><br>Sahil Swami, Ankush Khandelwal, Vinay Singh, Syed Sarfaraz Akhtar and Manish Shrivastava. A Corpus of English-Hindi Code-Mixed Tweets for Sarcasm Detection<br><br>Sahil Swami, Ankush Khandelwal, Vinay Singh, Syed Sarfaraz Akhtar and Manish Shrivastava. An English-Hindi Code-Mixed Corpus: Stance Annotation and Baseline System |
| 15:00 – 15:30 | **Closing Session** |
| 15:30 - 17:00 | **Local tour** |