



The 7th International Conference on Natural Language and Speech Processing (ICNLSP 2024)

October 19-20, 2024

All times are according to time (GMT)

Saturday, Oct. 19, 2024 08:00 – 16:00 (GMT)

08:00-08:15	<i>Opening session</i> Dr. Mourad Abbas and Dr. Abed Alhakim Freihat
08:15 – 08:35	<i>Keynote : An Introduction to Large Language Models</i> Prof. Gérard Chollet , CNRS, France.
08:45 – 10:45	<i>Oral Session 1: Large Language Models</i> Chair: Prof. Gérard Chollet , CNRS, France.
08:45 – 09:00	Introducing wwm-german-18k - Can LLMs Crack the Million? (Or Win at Least 500 Euros?) Matthias Aßenmacher (LMU Munich)*; Luis Karrlein (LMU Munich); Philipp Schiele (LMU Munich); Christian Heumann (LMU Munich)
09:00 – 09:15	Design and Comparison of Arabic Negotiation Bots Using LLMs versus Seq2Seq Models with Reinforcement Learning Ahmad Hajj (University of Wisconsin-Madison); Yasmine A Abu Adla (American University of Beirut)*; Samah Albast (AUB); Hazem Hajj (AUB); Shady Elbassuoni (AUB); Wassim El Hajj (AUB); Khaled Shaban (Qatar University)
09:15 – 09:30	SG-RAG: Multi-Hop Question Answering With Large Language Models Through Knowledge Graphs Yücel Saygın (Sabancı Üniversitesi)*; Ahmmad O. M. Saleh (Sabanci University); Gokhan Tur (University of Illinois Urbana-Champaign)
09:30 – 09:45	Enhancing LLM-based Arabic Negotiation by Fine Tuning on Dialogue Shortcomings Yasmine A Abu Adla (American University of Beirut)*; Hazem Hajj (AUB); Shady Elbassuoni (AUB); Khaled Shaban (Qatar University); Wassim El Hajj (AUB)

09:45 – 10:00	Medical Information Extraction with Large Language Models Raffaello Fornasiere (DEIB, Politecnico di Milano); Nicolò Brunello (DEIB, Politecnico di Milano); Vincenzo Scotti (DEIB, Politecnico di Milano)*; Mark Carman (Politecnico di Milano)
10:00 – 10:15	Personalised Abusive Language Detection Using LLMs and Retrieval-Augmented Generation Tsungcheng Yao (Griffith University Australia)*; Ernest Foo (Griffith University Australia); Sebastian Binnewies (Griffith University)
10:15 – 10:30	Resolving LLM-Generated Gender Biases at Transformer Inference Time with Novel K-Explorers Neural Network Traversal (KeNNT) Hanav Modasiya (Santa Clara High School)*
10:30 – 10:45	Investigating Gender Bias in Large Language Models Through Text Generation Shweta Soundararajan (Technological University Dublin)*; Sarah Jane Delany (TU Dublin)
10:45 – 11:45	<i>Oral Session 2 : Information extraction and Summarization</i> Chair: Prof. Yücel Saygın, Sabancı Üniversitesi, Turkey.
10:45 – 11:00	CliqueCorex: A Self-supervised Clique-based Anchored Topic Model Sami Diaf (Universität Hamburg)*
11:00 – 11:15	Large-scale Summarization of Chat Transcripts in the Absence of Annotated Summaries Pratik K Biswas (Verizon AI&D)*
11:15 – 11:30	Conversational Exploratory Search of Scholarly Publications Using Knowledge Graphs Phillip Schneider (Technical University of Munich)*; Florian Matthes (Technical University of Munich)
11:30 – 11:45	Linking Quran and Hadith Topics in an Ontology using Word Embeddings and Cellfie Plugin Ibtisam Khalaf Alshammari (University of Leeds)*; Eric Atwell (University of Leeds); Mhd Ammar Alaska (University of Leeds)
11:45 – 12:45	Break
12:45 – 14:00	<i>Oral Session 3: Human-Machine Interaction and Conversational AI</i> Chair: Prof. Hend Al-Khalifa, King Saud University, KSA.
12:45 – 13:00	A Hybrid Retrieval Approach for Advancing Retrieval-Augmented Generation Systems Nguyen Nam Doan (Maastricht University)*; Aki Härmä (Maastricht University); Remzi Celebi (Maastricht University); Valeria Gottardo (NLC Health Ventures)
13:00 – 13:15	Context-Aware Question Answering in Urdu Samreen A Kazi (Institute of Business Administration)*; Shakeel Ahmed Khoja (Institute of Business Administration)
13:15 – 13:30	Human and Machine: Language Processing in Translation Tasks Hening Wang (Universität Tübingen); Leixin Zhang (University of Tübingen)*; Ondřej Bojar (Charles University)

13:30 – 13:45	Semantically Enriched Text Generation for QA through Dense Paraphrasing Timothy Obiso (Brandeis University)*; Bingyang Ye (Brandeis University); Kyeongmin Rim (Brandeis University); James Pustejovsky (Brandeis University)
13:45 – 14:00	Sawaal: A Framework for Automatic Question Generation in Urdu Maria Rahim (Institute of Business Administration)*; Shakeel Ahmed Khoja (Institute of Business Administration)
14:00– 16:00	<i>Oral Session 4 : Advances in Native Language Identification and Text Classification</i> Chair: Dr. Daniel Braun, University of Twente, Netherlands.
14:00 – 14:15	Native language Identification for Arabic Language Learners using Pre-trained Language Models Mohamed Amine CHERAGUI (Ahmed Draia University)*; Mourad Abbas (High Council of Arabic); Mohammed Mediani (United Arab Emirates University)
14:15 – 14:30	Leveraging Annotator Disagreement for Text Classification Jin Xu (University of Twente); Mariët Theune (University of Twente); Daniel Braun (University of Twente)*
14:30 – 14:45	Detecting ChatGPT-Generated Text with GZIP-KNN: A No-Training, Low-Resource Approach Matthias Berchtold (SUPSI); Sandra Mitrovic (Istituto Dalle Molle di Studi sull'Intelligenza Artificiale)*; Davide Andreoletti (SUPSI); Daniele Puccinelli (SUPSI); Omran Ayoub (SUPSI)
14:45 – 15:00	Dual-Task Learning for AI-Generated Medical Text Detection and Named Entity Recognition Saja B. Al-Dabet (United Arab Emirates University)*; Ban Alomar (United Arab Emirates University); Sherzod R Turaev (United Arab Emirates University); Abdelkader Belkacem (United Arab Emirates University)
15:00 – 15:15	Efficient Few-shot Learning for Multi-label Classification of Scientific Documents with Many Classes Tim Schopf (Technical University of Munich)*; Alexander Blatzheim (Technical University of Munich); Nektarios Machner (Technical University of Munich); Florian Matthes (Technical University of Munich)
15:15 – 15:30	Asking the Right Questions: Exploiting Hidden Interactions in a Generative Framework for Multilingual, Multitask Classification Sebastian-Antonio Toma (Technical University of Cluj-Napoca)*; Camelia Lemnaru (Technical University of Cluj-Napoca); Vlad Andrei Negru (Technical University of Cluj-Napoca); Rodica Potolea (Technical University of Cluj-Napoca)
15:30 – 15:45	Native Language Identification Improves Authorship Attribution Ahmet Yavuz Uluslu (University of Zurich)*; Gerold Schneider (University of Zurich); Can Yildizli (PRODAFT)
15:45 – 16:00	Analyzing Politeness in Arabic Tweets: A Preliminary Study Hend Al-Khalifa (King Saud University)*; Maria BOUNNIT (iWAN Research Group); Nadia GHEZAIEL (University of Hail)

Sunday, Oct. 20, 2024 08:30 – 16:00 (GMT)

08:30– 10:15		<i>Oral Session 5: Audio, ASR, and TTS</i> Chair: Prof. Nicolas Ballier , Université Paris Cité, France.
08 :30 – 08:45	On Barriers to Archival Audio Processing Peter R Sullivan (UBC)*; Muhammad Abdul-Mageed (iSchool@UBC)	
08:45 – 09:00	Comparative Analysis of Modality Fusion Approaches for Audio-Visual Person Identification and Verification Aref Farhadipour (University of Zurich)*; Masoumeh Chapariniya (University of Zurich); Teodora Vukovic (University of Zurich); Volker Dellwo (University of Zurich)	
09:00 – 09:15	Generative Adversarial Network based Neural Vocoder for Myanmar End-to-End Speech Synthesis Aye Mya Hlaing (University of Computer Studies, Yangon)*; Win Pa Pa (University of Computer Studies, Yangon)	
09:15 – 09:30	Double Decoder: Improving latency for Streaming End-to-end ASR Models Riqiang Wang (Dialpad)*; Shreekantha Nadig (Dialpad); Daniil Kulko (Dialpad); Simon Vandieken (Dialpad); Chia-tien Chang (Dialpad); Seyyed Saeed Sarfjoo (Dialpad); Jonas Robertson (Dialpad)	
09:30 – 09:45	Probing Whisper Predictions for French, English and Persian Transcriptions Nicolas Ballier (Université Paris Cité)*; Léa Burin (Université Paris Cité); Behnoosh Namdarzadeh (Université Paris Cité); Sara B Ng (University of Washington); Richard Wright (University of Washington); Jean-Baptiste Yunès (Université Paris Cité)	
09:45 – 10:00	Thonburian Whisper: Robust Fine-tuned and Distilled Whisper for Thai Zaw Htet Aung (Mahidol University)*; Thanachot Thavornmongkol (Looloo Technology); Atirut Boribalburephan (Looloo Technology); Vittavas Tangsriworakan (Mahidol University); Knot Pipatsrisawat (Looloo Technology); Titipat Achakulvisut (Mahidol University)	
10:00 – 10:15	Text-to-Speech in Azerbaijani Language via Transfer Learning in a Low Resource Environment Dzhavidan Zeinalov (Kapital Bank)*; Bugra Sen (Kapital Bank); Firangiz Aslanova (Kapital Bank)	
10:15 – 10:30 Break		
10:30 – 12:15		<i>Oral Session 6 : Speech emotion recognition and speaker verification and diarization</i> Chair: Dr. Mohammed Mediani , United Arab Emirates University, UAE.
10:30 – 10:45	Real-Time Speech-Driven Avatar Animation by Predicting Facial landmarks and Deformation Blendshapes Juan Camilo Vasquez-Correa (VICOMTECH)*; Santiago Moreno-Acevedo (VICOMTECH); Ander Gonzalez-Docasal (VICOMTECH); Aritz Lasarguren (Baleuko); Jone Lòpez (Baleuko); Egoitz Rodriguez (Baleuko); Aitor Álvarez (VICOMTECH)	
10:45 – 11:00	Speech Emotion Recognition for Call Centers using Self-supervised Models: A Complete Pipeline for Industrial Applications Juan M. Martín-Doñas (Vicomtech)*; Asier López Zorrilla (UPV/EHU); Mikel deVelasco (UPV/EHU); Juan Camilo Vasquez-Correa (VICOMTECH); Aitor Álvarez (Vicomtech); Maria Inés Torres (Universidad del País Vasco UPV/EHU); Paz Delgado (NaturalSpeech); Ane Lazpiur (NaturalSpeech); Blanca Romero (NaturalSpeech); Irati Alkorta (Gureak)	

11:00 – 11:15	GemST: Continual Learning for End-to-End Speech-to-Text Translation Pranav Karande (VIT University, Vellore)*; Balaram Sarkar (Indian Institute of Technology Indore); Chandresh K Maurya (Indian Institute of Technology Indore)
11:15 – 11:30	Improved Spoken Emotion Recognition With Combined Segment-Based Processing And Triplet Loss Dejan Porjazovski (Aalto University)*; Tamas Grosz (Aalto University); Mikko Kurimo (Aalto University)
11:30 – 11:45	CASCA: Towards the Use of Speaker Role Information in Speaker Diarization William K Nehrboss (Casca Labs)*
11:45 – 12:00	Deep Information Maximisation to Mitigate Information Loss in Text Independent Speaker Verification Nipun Thejan Fonseka (University of Moratuwa)*; Nirmal Sankalana (University of Moratuwa)
12:00 – 12:15	Improving speaker F0 representation using post-processing techniques Crisron Rudolf G Lucas (UCD)*; Diptasree Debnath (University College Dublin)
12:15 – 13:30	Break
13:30– 15:45	<i>Oral Session 7: Data and Representation</i> Chair: Dr. Koichi Takeuchi , Okayama University, Japan.
13:30 – 13:45	FeruzaSpeech: A 60 Hour Uzbek Read Speech Corpus with Punctuation, Casing, and Context Anna Povey (Redmond High School)*; Katherine Povey (University of Washington)
13:45 – 14:00	Modeling Score Estimation for Japanese Essays with Generative Pre-trained Transformers Boago Okgetheng (Okayama University)*; Koichi Takeuchi (Okayama University)
14:00 – 14:15	PoliTun: Tunisian Political Dataset for Detecting Public Opinions and Categories Orientation Chayma Fourati (National School of Computer Science)*; Roua Hammami (Higher Institute of Multimedia Arts); Chiraz Latiri (Faculty of Sciences of Tunis, Tunis EL Manar University); Hatem Haddad (Manouba University)
14:15 – 14 :30	A Comparison of Different Tokenization Methods for the Georgian Language Beso Mikaberidze (MIMC)*; Temo Saghinadze (MIMC); Guram Mikaberidze (University of Wyoming); Raphael Kalandadze (Georgian Technical University); Konstantine Pkhakadze (Educational Center for the Georgian Language Technology); Josef van Genabith (Saarland University); Simon Ostermann (German Research Center for Artificial Intelligence); Lonneke van der Plas (Idiap Research Institute); Philipp Müller (DFKI GmbH)
14:30 – 14 :45	The Qiyas Benchmark: Measuring ChatGPT Mathematical and Language Understanding in Arabic Shahad Al-Khalifa (King Saud University)*; Hend Al-Khalifa (King Saud University)
14:45 – 15:00	Data Bias According to Bipol: Men are Naturally Right and It is the Role of Women to Follow Their Lead Irene Pagliai (University of Göttingen); Goya van Boven (Utrecht University); Oluwatosin Adewumi (Luleå University of Technology)*; Lama Alkhaled (Luleå University of Technology); Namrata Gurung (QualityMinds GmbH); Isabella Södergren (Luleå University of Technology); Elisa H Barney Smith (Luleå Tekniska Universitet)
15:00 – 15:30	Bulgarian Grammar Error Correction with Data Augmentation and Machine Translation Techniques Bozhidar Klouchek (The University of Manchester)*; Riza Batista-Navarro (School of Computer Science, The University of Manchester)

EEG Signal Analysis for Multimodal Simple Concepts Decoding

15:30 – 15:45

Sergio Guillén Jiménez (Universidad de Málaga); Lorenzo J. Tardón (ATIC Research Group, Universidad de Málaga)*; Ana M Barbancho (ATIC Research Group, Universidad de Malaga.); Isabel Barbancho (Universidad de Málaga)

15:45-16:00

Closing session

N.B: TIME IN GMT

Presentation duration 12 minutes + 3 minutes for questions.