



Call for Demonstrations

Twenty-fifth International Conference on *Text, Speech and Dialogue*

TSD 2022



September 6–9, 2022, Brno, Czech Republic

TSD 2022 is organized by the Faculty of Informatics, Masaryk University, Brno, and the Faculty of Applied Sciences, University of West Bohemia, Pilsen. The conference is supported by International Speech Communication Association.

Venue: Brno, Czech Republic

Submission of Demonstration Abstracts: Authors are invited to present actual projects, developed software and hardware or interesting material relevant to the topics of the conference. The authors of the demonstrations should provide the abstract not exceeding one page as plain text. The submission must be made using the online form available at the conference www.tsdconference.org pages. The accepted demonstrations will be presented during a special Demonstration Session (see the Demo Instructions at www.tsdconference.org). The demonstration abstracts will not appear in the Proceedings of TSD 2022, they will be published electronically at the conference website.

Tutorial: The conference program will be supplemented with a hands-on tutorial:

Speech recognition on the edge, Prof. Daniel Hromada; Hyungjoong Kim

Keywords: Automatic Speech Recognition; Speech Command Classification; DeepSpeech; RaspberryPi; NVIDIA Jetson; Python; Linux; Websockets

During this workshop, participants will be introduced to diverse ways how speech-to-text (STT) inferences can be realized on non-cloud, local (i.e. edge-computing) architectures. Participants will acquire knowledge and competence concerning intricacies and nuances of execution of two different types of ASR systems (DeepSpeech and Random Forests) on three different hardware architectures (e.g. RaspberryPiZero (armv6); RaspberryPi 4 (armv7 without CUDA) and NVIDIA Jetson Xavier (armv8 / aarch64 with CUDA)). Thus, the hands-on workshop participants will experience the transformation of all three hardware platforms into a low-cost local STT inference engine.

Format of the Conference: The conference program will include presentation of invited papers, oral presentations, and poster and demonstration sessions. Papers will be presented in plenary or topic oriented sessions. The conference will welcome **Eneko Agirre**, Universidad del País Vasco, Spain, and **Anna Rogers**, University of Copenhagen, Denmark, as keynote speakers. Social events including a trip in the vicinity of Brno will allow for additional informal interactions.

TSD series evolved as a prime forum for interaction between researchers in both spoken and written language processing from all over the world. Proceedings of TSD form a book published by Springer-Verlag in their Lecture Notes in Artificial Intelligence (LNAI) series. TSD Proceedings are regularly indexed by Thomson Reuters Conference Proceedings Citation Index/Web of Science. LNAI series are listed in all major citation databases such as DBLP, SCOPUS, EI, INSPEC or COMPENDEX.

Topics: Topics of the conference will include (but are not limited to): *Corpora and Language Resources* (monolingual, multilingual, text and spoken corpora, large web corpora, disambiguation, specialized lexicons, dictionaries); *Speech Recognition* (multilingual, continuous, emotional speech, handicapped speaker, out-of-vocabulary words, alternative way of feature extraction, new models for acoustic and language modelling); *Tagging, Classification and Parsing of Text and Speech* (morphological and syntactic analysis, synthesis and disambiguation, multilingual processing, sentiment analysis, credibility analysis, automatic text labeling, summarization, authorship attribution); *Speech and Spoken Language Generation* (multilingual, high fidelity speech synthesis, computer singing); *Semantic Processing of Text and Speech* (information extraction, information retrieval, data mining, semantic web, knowledge representation, inference, ontologies, sense disambiguation, plagiarism detection, fake news detection); *Integrating Applications of Text and Speech Processing* (machine translation, natural language understanding, question-answering strategies, assistive technologies); *Automatic Dialogue Systems* (self-learning, multilingual, question-answering systems, dialogue strategies, prosody in dialogues); *Multimodal Techniques and Modelling* (video processing, facial animation, visual speech synthesis, user modelling, emotions and personality modelling);

Papers on processing of languages other than English are strongly encouraged.

Program Committee: Elmar Nöeth, Germany (general chair); Rodrigo Agerri, Spain; Eneko Agirre, Spain; Vladimír Benko, Slovakia; Archana Bhatia, USA; Jan Černocký, Czechia; Simon Dobrišek, Slovenia; Kamil Ekstein, Czechia; Karina Evgrafova, Russia; Yeoven Fedorov, Ukraine; Volker Fischer, Germany; Darja Fišer, Slovenia; Lucie Flek, Germany; Björn Gambäck, Norway; Radovan Garabík, Slovakia; Alexander Gelbukh, Mexico; Louise Guthrie, USA; Tino Haderlein, Germany; Jan Hajič, Czechia; Eva Hajičová, Czechia; Yannic Haralambous, France; Hynek Hermansky, USA; Jaroslava Hlaváčová, Czechia; Aleš Horák, Czechia; Eduard Hovy, USA; Denis Jouvet, France; Maria Khokhlova, Russia; Aidar Khusainov, Russia; Daniil Kocharov, Russia; Miloslav Konopík, Czechia; Ivan Kopeček, Czechia; Valia Kordoni, Germany; Evgeny Kotelnikov, Russia; Pavel Král, Czechia; Siegfried Kunzmann, USA; Nikola Ljubešić, Croatia; Natalija Loukachevitch, Russia; Bernardo Magnini, Italy; Oleksandr Marchenko, Ukraine; Václav Matoušek, Czechia; Roman Mouček, Czechia; Agnieszka Mykowiecka, Poland; Hermann Ney, Germany; Joakim Nivre, Sweden; Juan Rafael Orozco-Arroyave, Colombia; Karel Pala, Czechia; Maciej Piasecki, Poland; Josef Psutka, Czechia; James Pustejovsky, USA; German Rigau, Spain; Paolo Rosso, Spain; Leon Rothkrantz, The Netherlands; Anna Rumshisky, USA; Milan Rusko, Slovakia; Pavel Rychlý, Czechia; Mykola Sazhok, Ukraine; Odette Scharenborg, The Netherlands; Pavel Skrelin, Russia; Pavel Smrž, Czechia; Petr Sojka, Czechia; Georg Stemmer, Germany; Marko Robnik Šikonja, Slovenia; Marko Tadić, Croatia; Jan Trmal, Czechia; Tamas Varadi, Hungary; Zygmunt Vetulani, Poland; Aleksander Wawer, Poland; Pascal Wiggers, The Netherlands; Marcin Woliński, Poland; Alina Wróblewska, Poland; Victor Zakharov, Russia; Jerneja Žganec Gros, Slovenia.

Important Dates:

August 8, 2022 Submission of demonstration abstracts

August 15, 2022 Notif. of acceptance for demonstrations

September 6–9, 2022 Conference date

Official Language of the conference is English.

Accommodation: The OC has arranged discounts on accommodation in the 4-star hotel at the conference venue.

Location:

Brno is the second largest city in the Czech Republic with a population of almost 400.000 and is the country's judiciary and trade-fair center. Brno is the capital of South Moravia, which is located in the south-east part of the Czech Republic

and is known for a wide range of cultural, natural, and technical sights. South Moravia is a traditional wine region. Brno had been a Royal City since 1347 and with its six universities it forms a cultural center of the region.

Brno can be reached easily by direct flights from London, and by trains or buses from Vienna (150 km) or Prague (230 km).

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For detailed and up-to-date information see the web page www.tsdconference.org.