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 website. 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:

Prof. Daniel Hromada; Hyungjoong Kim

Speech recognition on the edge

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) interfaces 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 Pais 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 labelling, 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; Vladimir Benko, Slovakia; Archana Bhatia, USA; Jan Cermých, Czechia; Simon Dobrišek, Slovenia; Kamil Ekstejn, Czechia; Karina Ezhgurova, Russia; Yerhen Fedunow, Ukraine; Volker Fischer, Germany; Darja Fišer, Slovenia; Lucie Flek, Germany; Bjørn Gambæk, Norway; Radovan Garášek, Slovakia; Alexander Gelbukh, Mexico; Louise Guthrie, USA; Tino Haderlein, Germany; Jan Hajič, Czechia; Ewa Hajfijord, Czechia; Yannis Haralambous, France; Hynek Hermansky, USA; Jaroslava Hlaváčová, Czechia; Ales Horký, Czechia; Eduard Hovy, USA; Denis Jouvet, France; Maria Klokholtova, Russia; Ádám Klusovský, Slovakia; Daniil Kocharov, Russia; Milonaro Konopik, Czechia; Ivan Kopecké, Czechia; Valia Kordoni, Germany; Evgeny Kotelnikov, Russia; Pavel Kral, Czechia; Siegfried Kunzmann, USA; Nikola Ljuščič, Croatia; Natalija Lukačevičič, Russia; Bernardo Magnini, Italy; Oleksandr Marchenko, Ukraine; Václav Matašek, Czechia; Roman Moucek, Czechia; Agnieszka Mykowiakowa, Poland; Hermann Ney, Germany; Joakim Nivre, Sweden; Juan Rafael Marchenko, Spain; Simon Dobrišek, Slovenia; Tomáš Dobrovský, Czechia; Petr Šoltýs, Czechia; Georg Stemmer, Germany; Marko Šebek, Slovakia; Monika Skowron, Poland; Kristina Sochorová, Czechia; Tamás Szécsi, Hungary; Zsuzsanna Szabó, Hungary; Alexander Szücs, Hungary; Anna Víšková, Czechia; Jan Vítek, Czechia; Martin Vítek, Czechia; Alina Wŏlenska, Poland; Victor Zakharov, Russia; Jermia Žganec, Poland.

Important Dates:

August 8, 2022 … Submission of demonstration abstracts
August 15, 2022 … Notif. of acceptance for demonstrations
September 6–9, 2022 … Conference date

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