

GAILIUS RAŠKINIS

Research area: Machine learning applied to human language technologies is the main research area of Gailius Raškinis. In particular, Gailius Raškinis pursues R&D activities on deep learning architectures for Lithuanian ASR and Lithuanian TTS systems and works on implementations of such systems making them available to the general public.

Main publications

Raškinis, G., Paškauskaitė, G., Saudargienė, A., Kazlauskienė, A., & Vaičiūnas, A. (2019). Comparison of phonemic and graphemic word to sub-word unit mappings for Lithuanian phone-level speech transcription. *Informatica*, 30(3), 573-593.

Vaičiūnas, A., Raškinis, G., & Kazlauskienė, A. (2016). Corpus-based hidden Markov modelling of the fundamental frequency of Lithuanian. *Informatica*, 27(3), 673-688.

Recent R&D projects

1. „The development of the public services of Lithuanian syntactic-semantic analysis (SEMANTIKA 2, 02.3.1-CPVA-V-527-01-0002) within a Programme 02.3.1-CPVA-V-527 „Lithuanian language in Information technologies“ (2018-2020). Result: public Lithuanian ASR service and publicly available ASR tools at <https://semantika.lt>
2. Speech technology services based on AI and deep learning (ASTRA, 01.2.2-MITA-K-702-09-0043), 2020-2021. Result: Lithuanian ASR system transcribing Zoom and Teams meetings at <https://snekos-atpazinimas.lt> and Lithuanian TTS system <https://snekos-sinteze.lt>
3. Music practicing assistant based on AI and deep learning (MUZIKA, 01.2.2-MITA-K-702-11-0011), 2021-2022. Result: Music teacher assistant: <https://playsistant.com>
4. Intonation of Lithuanian: prosody at word and utterance level, their hierarchy, realization and transcription (LIEKI), S-LIP-21-5 (2021-2023).