

A hierarchical Dirichlet process model for joint part-of-speech and morphology induction

Sirts, Kairit; Alumäe, Tanel NAACL HLT 2012 : the 2012 Conference of the North American Chapter of the Association for Computational Linguistics : Human Language Technologies : proceedings of the conference : June 3-8, 2012, Montreal, Canada 2012 / p. 407-416 : ill https://www.researchgate.net/publication/262277910_A_hierarchical_Dirichlet_process_model_for_joint_part-of-speech_and_morphology_induction

Abstractive summarization of broadcast news stories for Estonian

Härm, Henry; Alumäe, Tanel Baltic journal of modern computing 2022 / p. 511-524 <https://doi.org/10.22364/bjmc.2022.10.3.23> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Advanced rich transcription system for Estonian speech

Alumäe, Tanel; Tiik, Ottokar; Ullah, Asad Human Language Technologies - the Baltic Perspective : Proceedings of the Eighth International Conference, Baltic HLT 2018 2018 / p. 1-8 <https://doi.org/10.3233/978-1-61499-912-6-1> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Analysis of keyword spotting performance across IARPA Babel languages

Hartmann, William; Karakos, Damianos; Hsiao, Roger; Zhang, Le; **Alumäe, Tanel**; Tsakalidis, Stavros; Schwartz, Richard 2017 IEEE International Conference on Acoustics, Speech, and Signal Processing : proceedings : March 5-9, 2017, Hilton New Orleans Riverside, New Orleans, Louisiana, USA 2017 / p. 5765-5769 : ill <https://doi.org/10.1109/ICASSP.2017.7953261>

Analyzing candidate speaking time in Estonian Parliament election debates

Talts, Siim; Alumäe, Tanel DHN 2020 : Digital Humanities in the Nordic Countries : proceedings of the Digital Humanities in the Nordic Countries 5th Conference : Riga, Latvia, October 21-23, 2020 2020 / p. 351-363 <http://ceur-ws.org/Vol-2612/short22.pdf> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Aru ja keel

Võhandu, Leo; Alumäe, Tanel Toimiv keel. II, Töid rakenduslingvistika alalt 2004 / lk. 367-373 https://artiklid.elnet.ee/record=b2135433*est

Automatic speech recognition system for Lithuanian broadcast audio

Alumäe, Tanel; Tiik, Ottokar Human Language Technologies - the Baltic Perspective : proceedings of the Seventh International Conference, Baltic HLT 2016 2016 / p. 39-45 : tab <https://doi.org/10.3233/978-1-61499-701-6-39>

Bidirectional recurrent neural network with attention mechanism for punctuation restoration

Tiik, Ottokar; Alumäe, Tanel 17th Annual Conference of the International Speech Communication Association (INTERSPEECH 2016) : Understanding Speech Processing in Humans and Machines : San Francisco, California, USA, 8-12 September 2016 2016 / p. 3047-3051 : ill <http://doi.org/10.21437/Interspeech.2016-1517>

Collar-aware training for streaming speaker change detection in broadcast speech

Kalda, Joonas; Alumäe, Tanel The Speaker and Language Recognition Workshop (Odyssey 2022), 28 June - 1 July 2022, Beijing, China : proceedings 2022 / p. 141-147 <https://doi.org/10.21437/Odyssey.2022-20>

Combining hybrid and end-to-end approaches for the OpenASR20 challenge

Alumäe, Tanel; Kong, Jiaming Interspeech 2021 : Brno, Czechia, 30 August - 3 September 2021 : Proceedings of the 22nd Annual Conference of the International Speech Communication Association, Brno 30 August 2021 through 3 September 2021 2021 / p. 1585-1589 <https://doi.org/10.21437/Interspeech.2021-1086>

Data augmentation and teacher-student training for LF-MMI based robust speech recognition

Ullah, Asad; Alumäe, Tanel Text, Speech, and Dialogue : 21st International Conference, TSD 2018, Brno, Czech Republic, September 11-14, 2018 : proceedings 2018 / p. 403-410 https://doi.org/10.1007/978-3-030-00794-2_43 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Eesti keele väliskohakäänete kasutus poolsponsaanses kõnes automaatse transkriptsiooni põhjal

Klavan, Jane; **Alumäe, Tanel**; Tavast, Arvi Keel ja Kirjandus 2020 / lk. 757-774 : tab <https://keeljakirjandus.ee/ee/uncategorized/eesti-keele-valiskohakaanete-kasutus-poolsponsaanses-kones-automaatse-transkriptsiooni-pohjal/> https://www.ester.ee/record=b1072340*est <https://doi.org/10.54013/kk754a8> [Journal metrics at Scopus](#) [Article at Scopus](#)

Eestikeelse kõne tuvastus : prototüübi loomine

Alumäe, Tanel Rakenduslingvistika Eestis : Tallinn, 11.-12. aprill 2002 : [konverentsi teesid] 2002 / lk. 9-10

Eestikeelse kõne tuvastus: prototüübi loomine

Alumäe, Tanel Toimiv keel. I, Töid rakenduslingvistika alalt 2003 / lk. 34-49 : ill

Eestikeelse kõnetuvastuse meetodite uurimine ja arendamine

Alumäe, Tanel; Kirt, Toomas EKKTT 2009 : riikliku programmi "Eesti keele keeletehnoloogiline tugi (2006-2010)" teine konverents : 6.-7. aprill 2009, Tartu 2009 / lk. 6

Eksperimendid eesti keele tuvastussüsteemi loomisel

Alumäe, Tanel Toimiv keel. II, Töid rakenduslingvistika alalt 2004 / lk. 23-36 : ill

Estonian speech recognition and transcription editing service

Olev, Aivo; Alumäe, Tanel Baltic journal of modern computing 2022 / p. 409-421 <https://doi.org/10.22364/bjmc.2022.10.3.14> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Estonian speech-driven PC-interface for disabled persons

Võhandu, Leo; Alumäe, Tanel; Viikmäe, Bert; Sirts, Kairit The Second Baltic Conference on Human Language Technologies : April 4-5, 2005, Tallinn, Estonia : proceedings 2005 / p. 359-364 : ill https://artiklid.elnet.ee/record=b1018500*est

Evaluation of automatic speech recognition prototype for Estonian language in radiology domain : a pilot study

Paats, Andrus; Alumäe, Tanel; Meister, Einar; Fridolin, Ivo 16th Nordic-Baltic Conference on Biomedical Engineering : 16. NBC & 10. MTD 2014 Joint Conferences, October 14-16, 2014, Gothenburg, Sweden 2015 / p. 96-99

Implementation of a radiology speech recognition system for Estonian using open source software

Alumäe, Tanel; Paats, Andrus; Fridolin, Ivo; Meister, Einar 18th Annual Conference of the International Speech Communication Association (INTERSPEECH 2017) : Situated Interaction : Stockholm, Sweden, 20 - 24 August 2017 / p. 2168-2172 : ill <http://doi.org/10.21437/Interspeech.2017-928> <http://toc.proceedings.com/36411webtoc.pdf>

Implementation of a radiology speech recognition system for Estonian using open source software [online resource]

Alumäe, Tanel; Paats, Andrus; Fridolin, Ivo; Meister, Einar INTERSPEECH 2017 : SITUATED INTERACTION, 20–24 August 2017 Stockholm, Sweden : book of abstracts 2017 / p. 165 https://www.isca-speech.org/archive/Interspeech_2017/booklet.pdf <http://doi.org/10.21437/Interspeech.2017-928>

Improving language identification of accented speech

Kukk, Kunnar; Alumäe, Tanel Proceedings of the Annual Conference of the International Speech Communication Association, INTERSPEECH, 2022, 18 September-22 September 2022 / p. 1288-1292 : ill <https://doi.org/10.21437/Interspeech.2022-10455>

Inimkõne on arvutile võõrkeel

Alumäe, Tanel; Kirt, Toomas Horisont 2004 / 4, lk. 42-44 : ill https://artiklid.elnet.ee/record=b1015964*est

Kas kunstmõistus teab meist kõike ja haarab võimu?

Einama, Kaido; Alumäe, Tanel Arvamus, kultuur : [ajalehe Postimees lisa] postimees.ee 2023 / Lk. 40-41 <https://dea.digar.ee/article/ak/2023/12/23/15.1> [Kas kunstmõistus teab meist kõike ja haarab võimu?](#)

Keeletegu : nutitelefon tuvastab kõne

Alumäe, Tanel; Kaljurand, Kaarel; Strandberg, Marek Sirp : Keele Infoleht 2012 / lk. 4 <https://www.sirp.ee/s1-artiklid/varia/keeletegu-nutitelefon-tuvastab-kone/>

Kuidas arvuti kuulab ja kõneleb

Meister, Einar; Alumäe, Tanel Horisont 2010 / 5, lk. 8-13 : ill https://artiklid.elnet.ee/record=b2155640*est

Kõnetehnoloogia- ja foneetikauuringutest Tallinna Tehnikaülikoolis

Alumäe, Tanel; Meister, Einar Teadusmõtte Eestis (X). Tehnikateadused. 3 : [artiklikogumik] 2019 / lk. 7-20 : ill https://www.ester.ee/record=b5208765*est

Kõnetehnoloogia on huvitav ja perspektiivne ala : [selgitab TTÜ Küberneetika Instituudi foneetika ja kõnetehnoloogia labori teadur Tanel Alumäe]

Tohver, Sirje; Alumäe, Tanel Õpetajate Leht 2010 / lk. 7 : fot

Kõnetuvastusest maailmas ja Eestis

Alumäe, Tanel Tallinna Tehnikaülikooli aastaraamat 2009 2010 / lk. 44-51 : ill

Küberneetika Instituudi uusim saavutus kõnetuvastuses : [vestlus Mart Ummelase ja Tanel Alumäe vahel : arvutiprogrammiga loodud tekst]

Alumäe, Tanel; Ummelas, Mart Mente et Manu 2011 / lk. 4

Large vocabulary continuous speech recognition for Estonian using morphemes and classes

Alumäe, Tanel Text, Speech and Dialogue : 7th International Conference, TSD 2004 : Brno, Czech Republic, September 8-11, 2004 : proceedings 2004 / p. 245-252 : ill https://link.springer.com/chapter/10.1007/978-3-540-30120-2_31

Low-resource neural headline generation

Tiik, Ottokar; Alumäe, Tanel Workshop on new frontiers in summarization 2017 2017 / p. 20-26 : ill <http://dx.doi.org/10.18653/v1/W17-4503> <http://www.aclweb.org/anthology/W17-4503>

Methods for Estonian large vocabulary speech recognition

Alumäe, Tanel 2006 http://www.ester.ee/record=b2196005*est

Modeling under-resourced languages for speech recognition

Kurimo, Mikko; Enarvi, Seppo; **Tilk, Ottokar**; Varjokallio, Matti; Mansikkaniemi, Andre; **Alumäe, Tanel** Language resources and evaluation 2017 / p. 961-987 : ill <https://doi.org/10.1007/s10579-016-9336-9>

Multi-domain recurrent neural network language model for medical speech recognition

Tilk, Ottokar; Alumäe, Tanel Human language technologies - the Baltic perspective : proceedings of the sixth International Baltic Conference, Baltic HLT 2014 2014 / p. 149-152 : ill

Phonological and morphological modeling in large vocabulary continuous Estonian speech recognition system

Alumäe, Tanel The Second Baltic Conference on Human Language Technologies : April 4-5, 2005, Tallinn, Estonia : proceedings 2005 / p. 89-94 : ill https://artiklid.elnet.ee/record=b1018423*est

Piiratud ulatusega eestikeelne kõnetuvastus

Alumäe, Tanel; Võhandu, Leo Toimiv keel. I, Töid rakenduslingvistika alalt 2003 / lk. 50-52

Piiratud ulatusega eestikeelne kõnetuvastus

Alumäe, Tanel; Võhandu, Leo Rakenduslingvistika Eestis : Tallinn, 11.-12. aprill 2002 : [konverentsi teesid] 2002 / lk. 11

Pretraining approaches for spoken language recognition : TalTech submission to the OLR 2021 Challenge

Alumäe, Tanel; Kukk, Kunnar The Speaker and Language Recognition Workshop (Odyssey 2022), 28 June - 1 July 2022, Beijing, China : proceedings 2022 / p. 240-247 <https://doi.org/10.21437/Odyssey.2022-34>

Recognition of creaky voice from emergency calls

Tavi, Lauri; **Alumäe, Tanel**; Werner, Stefan INTERSPEECH 2019 : "Crossroads of speech and language" : Grac-Austria, September 15th-19th 2019 2019 / p. 191 https://www.isca-speech.org/archive/Interspeech_2019/booklet.pdf

Recognition of creaky voice from emergency calls

Tavi, Lauri; Alumäe, Tanel; Werner, Stefan Interspeech 2019 : 15-19 September 2019, Graz 2019 / p. 1990-1994 : ill <https://doi.org/10.21437/Interspeech.2019-1253>

Retrospective analysis of clinical performance of an Estonian speech recognition system for radiology : effects of different acoustic and language models

Paats, Andrus; Alumäe, Tanel; Meister, Einar; Fridolin, Ivo Journal of digital imaging 2018 / p. 615-621 : ill <https://doi.org/10.1007/s10278-018-0085-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Robust training of vector quantized bottleneck models

Lancucki, Adrian; Chorowski, Jan; Sanchez, Guillaume; Marxer, Ricard; Chen, Nanxin; Dolfing, Hans J.G.A.; Khurana, Sameer; **Alumäe, Tanel**; Laurent, Antoine 2020 International Joint Conference on Neural Networks (IJCNN), 19-24 July 2020, Glasgow, UK : proceedings 2020 / art. 163566 : 7 p <https://doi.org/10.1109/IJCNN48605.2020.9207145> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Silmad kinni ja näpud püsti! Kellest saab doktorant? : [kavandatavaid seadusemuudatusi õppetoetuste ja õppelaenu osas kommenteerivad TTÜ kõnetehnoloogia doktorant Tanel Alumäe, infotehnoloogia doktorant Juhan-Peep Ernits ja Küberneetikainstituudi vanemteadur Ülle Kotta]

Lill, Anne; **Alumäe, Tanel; Ernits, Juhan-Peep; Kotta, Ülle** Linnaleht 2004 / 3. det., lk. A 7

Smart elevator with unsupervised learning for visitor profiling and personalised destination prediction

Leier, Mairo; Riid, Andri; Alumäe, Tanel; Pihlak, Rene; Udal, Andres; Heinsar, Risto; Vainküla, Sven 2021 IEEE International Conference on Cognitive and Computational Aspects of Situation Management (CogSIMA) : Virtual Conference, 14-22 May 2021 : proceedings 2021 / p. 9-16 <https://doi.org/10.1109/CogSIMA51574.2021.9475921>

Speech-based identification of children's gender and age with neural networks

Piel, Leo Kristopher; Alumäe, Tanel Human Language Technologies - the Baltic Perspective : Proceedings of the Eighth International Conference, Baltic HLT 2018 2018 / p. 104-111 <https://doi.org/10.3233/978-1-61499-912-6-104> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Statistilise keelemudeli adapteerimine eesti keele kõnetuvastuses

Alumäe, Tanel Eesti Rakenduslingvistika Ühingu aastaraamat. 4 2008 / lk. 5-16 https://artiklid.elnet.ee/record=b2117005*est

The 2016 BBN Georgian telephone speech keyword spotting system

Alumäe, Tanel; Karakos, Damianos; Hartmann, William 2017 IEEE International Conference on Acoustics, Speech, and Signal Processing : proceedings : March 5-9, 2017, Hilton New Orleans Riverside, New Orleans, Louisiana, USA 2017 / p. 5755-5759 : tab

The TalTech systems for the short-duration speaker verification challenge 2020

Alumäe, Tanel; Valk, Jörgen 21st Annual Conference of the International Speech Communication Association (INTERSPEECH 2020): Cognitive Intelligence for Speech Processing : Proceedings of a meeting held 25-29 October 2020, Shanghai, China 2020 / p. 746-750 https://www.isca-speech.org/archive/interspeech_2020/alumae20_interspeech.html <http://www.proceedings.com/56854.html>

Training speaker recognition models with recording-level labels

Alumäe, Tanel 2018 IEEE Workshop on Spoken Language Technology : SLT 2018 : Proceedings, December 18–21, 2018, Athens, Greece 2018 / p. 1066-1072 <http://doi.org/10.1109/SLT.2018.8639601>

Unsupervised neural segmentation and clustering for unit discovery in sequential data

Chorowski, Jan; Chen, Nanxin; Marxer, Ricard; Dolfing, Hans J.G.A.; Sanchez, Guillaume; **Alumäe, Tanel** Workshop on Perception as Generative Reasoning, NeurIPS 2019, Vancouver, Canada 2019 / 7 p. : ill <https://pgr-workshop.github.io/img/PGR009.pdf> https://pgr-workshop.github.io/accepted_papers/

Uued inimesed ja positsioonid

Witt, Emlyn David Qivitoq; Tabri, Liina; Volkova, Anna; Lenear, Kerdu; Alumäe, Tanel Mente et Manu 2022 / lk. 48-50 : fot https://www.ester.ee/record=b1242496*est

Varjatud Markovi mudelid

Alumäe, Tanel A & A 2002 / 4, lk. 27-36 : ill

Weakly supervised training of speaker identification models

Karu, Martin; Alumäe, Tanel Odyssey 2018 : The Speaker and Language Recognition Workshop, 26-29 June 2018, Les Sables d'Olonne, France : proceedings 2018 / p. 24-30 : ill https://www.isca-speech.org/archive/Odyssey_2018/pdfs/41.pdf

VOXLINGUA107 : A dataset for spoken language recognition

Valk, Jörgen; Alumäe, Tanel IEEE Spoken Language Technology Workshop 2021 / p. 652-658 <https://doi.org/10.1109/SLT48900.2021.9383459>