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Avdelningen för digital humaniora
Språkteknologi
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Kvalifikationer

Computational Linguistics, PhD, Recycling Translations - Extraction of Lexical Data from Parallel Corpora and their Application in Natural Language Processing, Uppsala University
2000 → 2003
Tilldelningsdatum: 12 dec. 2003

Computer Science, M.Sc., Automatical Lexicon Extraction from Aligned Bilingual Corpora, Otto Von Guericke University, Magdeburg
1991 → 1997
Tilldelningsdatum: 11 sep. 1997

Forskningsledare (Principal Investigator)

Tidsperiod : 27.01.2016 - 31.12.2017 i

Forskningsledare (Principal Investigator)

Tidsperiod : 17.02.2018 - 31.12.2025 i Avdelningen för digital humaniora

Anställning

professor

Avdelningen för digital humaniora
Helsingfors universitet
Finland
1 jan. 2018 → present

Språkteknologi

Helsingfors universitet
University of Helsinki, Finland
1 aug. 2015 → present

Handledare för doktorandprogram

Doktorandprogrammet i språkforskning
Helsingfors universitet
Finland
1 jan. 2014 → present

Projekt

1. **Open European Family of Large Language M**
Tiedemann, J. (Projektleddare), Creutz, M. (deltagare) & Li, Z. (deltagare)
Univerzita Karlova Filozofická fakulta
01/02/2025 → 31/01/2028
2. **GreenNLP: Green NLP - controlling the carbon footprint in sustainable language technology**
Tiedemann, J. (Projektleddare), Attieh, J. (deltagare), Nieminen, T. J. (deltagare) & Štefánik, M. (deltagare)
Suomen Akatemia Projektilaskutus
01/01/2023 → 31/12/2025

3. **High Performance Language Technologies**
Tiedemann, J. (Projektledare), Aulamo, M. (deltagare), De Gibert Bonet, O. (deltagare), Grönroos, S.-A. (deltagare), Ji, S. (deltagare), Mickus, T. (deltagare), Vahtola, T. (deltagare), Vazquez, R. (deltagare) & Virpioja, S. P. (deltagare)
Charles University in Prague Faculty of Science Department of Teaching and Didactics of Biology
01/09/2022 → 31/12/2025
4. **Uncertainty-aware neural language models**
Tiedemann, J. (Projektledare), Celikkanat, H. (Deltagare), Virpioja, S. P. (Deltagare) & Vazquez, R. (Deltagare)
Academy of Finland, Suomen Akatemia Projektilaskutus
01/01/2022 → 01/10/2025
5. **CorCoDial: CorCoDial - Corpus-based computational dialectology: exploiting machine translation techniques to extract, visualize and interpret dialectal patterns**
Scherrer, Y. (Projektledare), Tiedemann, J. (Projektledare), Kuparinen, O. V. (deltagare), Mickus, T. (deltagare), Miletic Haddad, A. (deltagare), Psaltaki, E. (deltagare), Roemling, D. (deltagare), Siewert, J. (deltagare) & Siewert, J. (deltagare)
Suomen Akatemia Projektilaskutus
01/09/2021 → 31/08/2025
6. **Behind the words: Deep neural models of language meaning for industry-grade applications**
Tiedemann, J. (Projektledare), Creutz, M. (Principal Investigator), Creutz, M. (deltagare), Itkonen, S. (deltagare), Sjöblom, E. I. (deltagare), Vahtola, T. (deltagare), Itkonen, S. (Deltagare) & Vahtola, T. (Deltagare)
Academy of Finland, Suomen Akatemia Projektilaskutus
01/01/2021 → 31/12/2023
7. **OPUS-MT: Open Translation Models, Tools and Services**
Aulamo, M. (Deltagare), Nieminen, T. J. (Deltagare), Hardwick, S. (Deltagare) & Tiedemann, J. (Projektledare)
01/08/2020 → 31/08/2021
8. **EOSC-nordic: The European Open Science Cloud - Nordic**
Tiedemann, J. (Projektledare), Drobac, S. (Projektledare) & Raganato, A. (Projektledare)
European Commission, European Commission – Joint Research Centre
01/09/2019 → 31/08/2022
9. **FoTran: Found in Translation - Natural Language Understanding with Cross-Lingual Grounding**
Tiedemann, J. (Projektledare), Attieh, J. (deltagare), Aulamo, M. (deltagare), Celikkanat, H. (deltagare), De Gibert Bonet, O. (deltagare), Grönroos, S.-A. (deltagare), Mickus, T. (deltagare), Raganato, A. (deltagare), Scherrer, Y. (deltagare), Silfverberg, M. (deltagare), Sjöblom, E. I. (deltagare), Talman, A. (deltagare), Vazquez, R. (deltagare), Virpioja, S. P. (deltagare), Yli-Jyrä, A. (deltagare), Zosa, E. (deltagare), Celikkanat, H. (Deltagare), Raganato, A. (Deltagare), Silfverberg, M. (Deltagare), Sulubacak, U. (Deltagare) & Vazquez, R. (Deltagare)
01/09/2018 → 31/03/2024
10. **fiskmö: Creation of a parallel corpus of translated documents and machine translation for Finnish and Swedish**
Tiedemann, J. (Projektledare), Ginter, F. (Projektledare), Papula, N. (Projektledare), Aulamo, M. (Deltagare), Nieminen, T. (Deltagare), Kanerva, J. (Deltagare) & Eskola, K. (Deltagare)
Svenska kulturfonden
01/05/2018 → 31/03/2021
11. **MeMAD: Methods for Managing Audiovisual Data: Combining Automatic Efficiency with Human Accuracy**
Hirvonen, M. (Principal Investigator), Tiedemann, J. (Deltagare), Tiittula, L. (Deltagare), Sulubacak, U. (Deltagare), Vazquez, R. (Deltagare) & Koponen, M. (Deltagare)
European Commission / Horizon 2020
01/01/2018 → 31/03/2021
12. **NLUxLG: NLU with Cross-Lingual Grounding**
Tiedemann, J. (Projektledare), Talman, A. (Deltagare), Raganato, A. (Deltagare) & Celikkanat, H. (Deltagare)
SUOMEN AKATEMIA
01/01/2018 → 31/12/2019
13. **Development of Digital Teaching project of the BA Programme in Languages**
Lennes, M. (Deltagare), Flanagan, J. (Deltagare), Hiltunen, T. (Deltagare), Creutz, M. (Deltagare), Aunio, L. (Deltagare), Buchart, M. (Deltagare), Gruzdeva, E. (Deltagare), Jakubek, I. (Deltagare), Keinänen, N. (Deltagare), Kim, J.-Y. (Deltagare), Kittilä, S. (Deltagare), Kopotev, M. (Deltagare), Kraenker, S. (Deltagare), Länsisalmi, R. (Deltagare), Nieuweboer, R. (Deltagare), Peterson, E. (Deltagare), Tiedemann, J. (Deltagare), Tuori, R. (Deltagare), Autere, M. J. (Deltagare) & Lindstedt, J. (Projektledare)
01/05/2017 → 31/12/2018
14. **NLPL: Nordic Language Processing Laboratory**
Tiedemann, J. (Deltagare) & Scherrer, Y. (Deltagare)
01/01/2017 → 31/12/2019

15. **CrossNLP: Cross-Linguistic and Multilingual Natural Language Processing with the Focus on Low-Resource Languages and Language Variants**
Tiedemann, J. (Projektledare), Östling, R. (Principal Investigator) & Scherrer, Y. (Deltagare)
01/01/2016 → 31/12/2018
16. **Erillisrahoitus Helsingin ja Tukholman yliopistojen yhteishanke**
Lehti-Eklund, H. (Projektledare), Lindström, J. (Deltagare), Miestamo, M. (Deltagare), Grünthal, R. (Deltagare), Palander-Collin, M. (Deltagare), Kalliokoski, J. (Deltagare), Östman, J.-O. (Deltagare), Ajanki, R. (Deltagare), Holopainen, S. (Projektledare), Balode, L. (Deltagare), Lenk, H. E. H. (Deltagare), Kurhila, S. (Deltagare), Kotilainen, L. (Deltagare), Lindholm, C. (Deltagare), Wahlström, M. (Projektledare), Solin, A. (Projektledare), Fremer, M. (Projektledare), Tiittula, L. (Projektledare), Hamari, A. (Projektledare), Kittilä, S. (Projektledare), Huhtamäki, M. (Projektledare), Kim, J.-Y. (Projektledare), Kopotev, M. (Projektledare), Peterson, E. (Projektledare), Protassova, E. (Projektledare), Savijärvi, M. (Projektledare) & Tiedemann, J. (Projektledare)
Unknown funder
01/01/2015 → 31/12/2017
17. **eSSENCE: Efficient Algorithms for Natural Language Processing Beyond Sentence Boundaries**
Nivre, J. (Projektledare), Tiedemann, J. (Projektledare) & Stymne, S. (Principal Investigator)
01/09/2012 → 31/08/2014
18. **DiscoMT: Discourse-Oriented Statistical Machine Translation**
Tiedemann, J. (Projektledare), Hardmeier, C. (Principal Investigator), Loáiciga, S. (Deltagare) & Scherrer, Y. (Deltagare)
01/01/2012 → 31/12/2017
19. **LetsMT!: LetsMT! A Platform for Online Sharing of Training Data and Building User Tailored Machine Translation**
Tiedemann, J. (Projektledare), Weinitz, P. (Principal Investigator), Saers, M. (Principal Investigator), Zumpe, M. (Principal Investigator) & Schleussner, S. (Principal Investigator)
01/03/2010 → 31/08/2012
20. **OPUS: The Open Parallel Corpus**
Tiedemann, J. (Projektledare)
01/06/2004 → ...

Datauppsättning

1. **Document-level Machine Translation Benchmark**
Scherrer, Y. (Skapad av), Tiedemann, J. (Skapad av) & Loáiciga, S. (Skapad av), University of Helsinki, 1 nov. 2019
DOI: 10.5281/zenodo.3525366
Dataset: Datauppsättning
2. **LetsMT repository**
Tiedemann, J. (Skapad av), Zenodo, 22 jan. 2018
DOI: 10.5281/zenodo.1157836
Dataset: Datauppsättning
3. **Uplug**
Tiedemann, J. (Skapad av), Zenodo, 22 jan. 2018
DOI: 10.5281/zenodo.1157180, <https://github.com/Helsinki-NLP/Uplug/tree/v0.3.9>
Dataset: Datauppsättning
4. **Lingua-Align**
Tiedemann, J. (Skapad av), Zenodo, 22 jan. 2018
DOI: 10.5281/zenodo.1157176, <https://github.com/Helsinki-NLP/Lingua-Align/tree/v0.1>
Dataset: Datauppsättning
5. **OPUS**
Tiedemann, J. (Skapad av), University of Helsinki, 2017
<http://opus.nlpl.eu>
Dataset: Datauppsättning
6. **WMT17 test set Finnish-English**
Tiedemann, J. (Skapad av), Zenodo, 21 jan. 2018
DOI: 10.5281/zenodo.1156326, <https://github.com/Helsinki-NLP/WMT16-test-enfi/tree/v1.0>
Dataset: Datauppsättning
7. **WMT16 test set Finnish-English**
Tiedemann, J. (Skapad av), Zenodo, 21 jan. 2018
DOI: 10.5281/zenodo.1156325, <https://github.com/Helsinki-NLP/WMT16-test-enfi/tree/v1.0>
Dataset: Datauppsättning

8. **Shared Task in Cross-Lingual Parsing**
Tiedemann, J. (!Data Manager), Atlassian, 2017
<https://bitbucket.org/hy-crossNLP/wardial2017>
Dataset: Datauppsättning
9. **DiscoMT 2015 Shared Task on Pronoun Translation**
Tiedemann, J. (Skapad av), LINDAT/CLARIN, 31 jan. 2016
DOI: <http://hdl.handle.net/11372/LRT-1611>, <http://hdl.handle.net/11372/LRT-1611>
Dataset: Datauppsättning

Publikationer

1. Vahtola, T., Hu, S., Creutz, M., Vulić, I., Korhonen, A., & Tiedemann, J. (2025). Analyzing the Effect of Linguistic Instructions on Paraphrase Generation. I R. Johansson, & S. Stymme (Red.), *Proceedings of the Joint 25th Nordic Conference on Computational Linguistics and 11th Baltic Conference on Human Language Technologies (NoDaLiDa/Baltic-HLT 2025)* (s. 755-766). (NEALT proceedings series; Nr 57). University of Tartu Library.
2. Li, Z., Ji, S., Mickus, T., Segonne, V., & Tiedemann, J. (2024). A Comparison of Language Modeling and Translation as Multilingual Pretraining Objectives. I Y. Al-Onaizan, M. Bansal, & Y.-N. Chen (Red.), *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing* (s. 15882-15894). The Association for Computational Linguistics. <https://doi.org/10.18653/v1/2024.emnlp-main.888>
3. Scherrer, Y., Jauhainen, T., Ljubešić, N., Zampieri, M., Nakov, P., & Tiedemann, J. (Red.) (2024). *Proceedings of the Eleventh Workshop on NLP for Similar Languages, Varieties, and Dialects (VarDial 2024)*. The Association for Computational Linguistics. <https://aclanthology.org/2024.varDial-1.0>
4. Mickus, T., Zosa, E., Vazquez, R., Vahtola, T., Tiedemann, J., Segonne, V., Raganato, A., & Apidianaki, M. (2024). SemEval-2024 Task 6: SHROOM, a Shared-task on Hallucinations and Related Observable Overgeneration Mistakes. I A. K. Ojha, A. S. Doğruöz, H. Tayyar Madabushi, G. Da San Martino, S. Rosenthal, & A. Rosá (Red.), *Proceedings of the 18th International Workshop on Semantic Evaluation (SemEval-2024)* (s. 1979-1993). The Association for Computational Linguistics. <https://aclanthology.org/2024.semeval-1.273>
5. Dmitrieva, A., & Tiedemann, J. (2024). Towards Automatic Finnish Text Simplification. I G. M. Di Nunzio, F. Vezzani, L. Ermakova, H. Azarbonyad, & J. Kamps (Red.), *Proceedings of the Workshop on DeTermit! Evaluating Text Difficulty in a Multilingual Context @ LREC-COLING 2024* (s. 39-50). (International conference on computational linguistics), (LREC proceedings). European Language Resources Association (ELRA). <https://aclanthology.org/2024.determit-1.4/>
6. Mickus, T., Grönroos, S.-A., Attieh, J., Boggia, M., De Gibert, O., Ji, S., Loppi, N. A., Raganato, A., Vázquez, R., & Tiedemann, J. (2024). MAMMOTH: Massively Multilingual Modular Open Translation @ Helsinki. I N. Aletras, & O. De Clercq (Red.), *Proceedings of the 18th Conference of the European Chapter of the Association for Computational Linguistics: System Demonstrations* (s. 127-136). The Association for Computational Linguistics. <https://aclanthology.org/2024.eacl-demo.14>
7. Vázquez, R., Mickus, T., Tiedemann, J., Vulić, I., & Üstün, A. (Red.) (2024). *Proceedings of the 1st Workshop on Modular and Open Multilingual NLP (MOOMIN 2024)*. The Association for Computational Linguistics. <https://aclanthology.org/2024.moomin-1.0>
8. de Gibert, O., Nail, G., Arefyev, N., Bañón, M., van der Linde, J., Ji, S., Zaragoza-Bernabeu, J., Aulamo, M., Ramírez-Sánchez, G., Kutuzov, A., Pyysalo, S., Oepen, S., & Tiedemann, J. (2024). A New Massive Multilingual Dataset for High-Performance Language Technologies. I N. Calzolari, M.-Y. Kan, V. Hoste, A. Lenci, S. Sakti, & N. Xue (Red.), *Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024)* (s. 1116-1128). (International conference on computational linguistics), (LREC proceedings). European Language Resources Association (ELRA).
9. Ji, S., Mickus, T., Segonne, V., & Tiedemann, J. (2024). Can Machine Translation Bridge Multilingual Pretraining and Cross-lingual Transfer Learning? I N. Calzolari, M.-Y. Kan, V. Hoste, A. Lenci, S. Sakti, & N. Xue (Red.), *Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024)* (s. 2809-2818). (International conference on computational linguistics), (LREC proceedings). European Language Resources Association (ELRA).
10. Arefyev, N., Aulamo, M., Chen, P., de Gibert, O., Haddow, B., Helcl, J., Malik, B., Ramírez-Sánchez, G., Stepanchev, P., Tiedemann, J., Variš, D., & Zaragoza, J. (2024). HPLT's First Release of Data and Models. I C. Scarton, C. Prescott, C. Bayliss, C. Oakley, J. Wright, S. Wrigley, X. Song, E. Gow-Smith, M. Forcada, & H. Moniz (Red.), *Proceedings of the 25th Annual Conference of the European Association for Machine Translation: Volume 2: Products & Projects* (s. 53-54). European Association for Machine Translation. <https://eamt2024.github.io/proceedings/vol2.pdf>
11. De Gibert Bonet, O., Aulamo, M., Scherrer, Y., & Tiedemann, J. (2024). Hybrid distillation from RBMT and NMT: Helsinki-NLP's submission to the Shared Task on Translation into Low-Resource Languages of Spain. I B. Haddow, T. Kocmi, P. Koehn, & C. Monz (Red.), *Proceedings of the Ninth Conference on Machine Translation* (s. 908-917). The Association for Computational Linguistics.

12. Tiedemann, J., Aulamo, M., Bakshandaeva, D., Boggia, M., Grönroos, S. A., Nieminen, T., Raganato, A., Scherrer, Y., Vázquez, R., & Virpioja, S. (2023). Democratizing neural machine translation with OPUS-MT. *Language Resources and Evaluation*. <https://doi.org/10.1007/s10579-023-09704-w>
13. De Gibert Bonet, O., Vázquez, R., Aulamo, M., Scherrer, Y., Virpioja, S., & Tiedemann, J. (2023). Four Approaches to Low-Resource Multilingual NMT: The Helsinki Submission to the AmericasNLP 2023 Shared Task. I M. Mager, A. Ebrahimi, & A. Oncevay, et al. (Red.), *Proceedings of the Workshop on Natural Language Processing for Indigenous Languages of the Americas (AmericasNLP)* (s. 177-191). The Association for Computational Linguistics. <https://doi.org/10.18653/v1/2023.americasnlp-1.20>
14. Vahtola, T., Creutz, M., & Tiedemann, J. (2023). Guiding Zero-Shot Paraphrase Generation with Fine-Grained Control Tokens. I A. Palmer, & J. Camacho-collados (Red.), *Proceedings of the 12th Joint Conference on Lexical and Computational Semantics (*SEM 2023)* (s. 323-337). The Association for Computational Linguistics. <https://doi.org/10.18653/v1/2023.starsem-1.29>
15. Aulamo, M., De Gibert Bonet, O., Virpioja, S., & Tiedemann, J. (2023). Unsupervised Feature Selection for Effective Parallel Corpus Filtering. I M. Nurminen, J. Brenner, & M. Koponen, et al. (Red.), *Proceedings of the 24th Annual Conference of the European Association for Machine Translation* (s. 31-38). European Association for Machine Translation.
16. Scherrer, Y., Jauhainen, T., Ljubešić, N., Nakov, P., Tiedemann, J., & Zampieri, M. (Red.) (2023). *Tenth Workshop on NLP for Similar Languages, Varieties and Dialects (VarDial 2023): Proceedings of the Workshop*. The Association for Computational Linguistics. <https://aclanthology.org/2023.vardial-1.0>
17. Boggia, M., Grönroos, S.-A., Loppi, N., Mickus, T., Raganato, A., Tiedemann, J., & Vazquez, R. (2023). Dozens of Translation Directions or Millions of Shared Parameters? Comparing Two Types of Multilinguality in Modular Machine Translation. I T. Alumäe, & M. Fishel (Red.), *Proceedings of the 24th Nordic Conference on Computational Linguistics (NoDaLiDa)* (s. 238-247). (NEALT Proceedings Series Publisher name; Nr 52). University of Tartu Library.
18. Tuominen, T., Koponen, M., Vitikainen, K., Sulubacak, U., & Tiedemann, J. (2023). Exploring the gaps in linguistic accessibility of media: The potential of automated subtitling as a solution. *The Journal of Specialised Translation*, (39), 77-98.
19. Aulamo, M., Bogoychev, N., Ji, S., Nail, G., Ramirez-Sánchez, G., Tiedemann, J., Van Der Linde, J., & Zaragoza, J. (2023). HPLT: High Performance Language Technologies. I M. Nurminen, J. Brenner, & M. Koponen, et al. (Red.), *Proceedings of the 24th Annual Conference of the European Association for Machine Translation* (s. 517-518). European Association for Machine Translation.
20. Tiedemann, J., & Gibert, O. D. (2023). The OPUS-MT dashboard - A toolkit for a systematic evaluation of open machine translation models. I D. Bollegala, R. Huang, & A. Ritter (Red.), *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics: Volume 3: System Demonstrations* (Vol. 3, s. 315-327). Association for Computational Linguistics (ACL). <https://doi.org/10.18653/v1/2023.acl-demo.30>
21. Talman, A., Celikkanat, H., Virpioja, S., Heinonen, M., & Tiedemann, J. (2023). Uncertainty-Aware Natural Language Inference with Stochastic Weight Averaging. I T. Alumäe, & M. Fishel (Red.), *Proceedings of the 24th Nordic Conference on Computational Linguistics* (s. 358-365). (NEALT Proceedings Series; Nr 52). University of Tartu Library.
22. Vahtola, T., Creutz, M., & Tiedemann, J. (2022). It Is Not Easy To Detect Paraphrases: Analysing Semantic Similarity With Antonyms and Negation Using the New SemAntoNeg Benchmark. I J. Bastings, Y. Belinkov, Y. Elazar, D. Hupkes, N. Saphra, & S. Wiegrefe (Red.), *Proceedings of the Fifth BlackboxNLP Workshop on Analyzing and Interpreting Neural Networks for NLP* (s. 249-262). The Association for Computational Linguistics.
23. Tiedemann, J. (2022). From open parallel corpora to public translation tools: The success story of OPUS. I E. Volodina, D. Dannélls, A. Berdiceskis, M. Forsberg, & S. Virk (Red.), *LIVE and LEARN : Festschrift in honor of Lars Borin* (s. 133-138). (Research Reports from the Department of Swedish, Multilingualism, Language Technology; Nr GU-ISS-2022-03). University of Göteborg.
24. Tiedemann, J., Aulamo, M., Hardwick, S., & Nieminen, T. (2022). Open Translation Models, Tools and Services. I G. Rehm (Red.), *European Language Grid: A Language Technology Platform for Multilingual Europe* (s. 325-330). (Cognitive Technologies). Springer. https://doi.org/10.1007/978-3-031-17258-8_24
25. Vazquez, R., Celikkanat, H., Ravishankar, V., Creutz, M., & Tiedemann, J. (2022). A Closer Look at Parameter Contributions When Training Neural Language and Translation Models. I N. Calzolari, C.-R. Huang, & H. Kim, et al. (Red.), *Proceedings of the 29th International Conference on Computational Linguistics* (s. 4788-4800). (International conference on computational linguistics; Vol. 29, Nr 1). International Committee on Computational Linguistics.
26. Scherrer, Y., Jauhainen, T., Ljubešić, N., Nakov, P., Tiedemann, J., & Zampieri, M. (Red.) (2022). *Proceedings of the Ninth Workshop on NLP for Similar Languages, Varieties and Dialects: The 29th International Conference on Computational Linguistics*. (International conference on computational linguistics ; Vol. 29, Nr 19). COLING. <https://aclanthology.org/2022.vardial-1.0>

27. Itkonen, S., Tiedemann, J., & Creutz, M. (2022). Helsinki-NLP at SemEval-2022 Task 2: A Feature-Based Approach to Multilingual Idiomaticity Detection. I G. Emerson, N. Schluter, G. Stanovsky, R. Kumar, A. Palmer, N. Schneider, S. Singh, & S. Ratan (Red.), *Proceedings of the 16th International Workshop on Semantic Evaluation (SemEval-2022)* (s. 122-134). The Association for Computational Linguistics.
28. Vahtola, T., Sjöblom, E., Tiedemann, J., & Creutz, M. (2022). Modeling Noise in Paraphrase Detection. I N. Calzolari, F. Béchet, & P. Blache, et al. (Red.), *Proceedings of the 13th Conference on Language Resources and Evaluation (LREC 2022)* (s. 4324-4332). European Language Resources Association (ELRA).
29. Tiedemann, J. (2022). Språk(teknologi) är nyckeln till intelligens och rättvisa. *Språkbruk*. <https://www.sprakbruk.fi/-/spr%C3%A5k-teknologi-%C3%A4r-nyckeln-till-intelligens-och-r%C3%A4ttvisa>
30. Talman, A., Apidianaki, M., Chatzikyriakidis, S., & Tiedemann, J. (2022). How Does Data Corruption Affect Natural Language Understanding Models? A Study on GLUE datasets. I V. Nastase, E. Pavlick, M. Taher Pilehvar, J. Camacho-Collados, & A. Raganato (Red.), *Proceedings of The 11th Joint Conference on Lexical and Computational Semantics* (s. 226-233). The Association for Computational Linguistics.
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