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Språkteknologi
Avdelningen för digital humaniora
Centre of Excellence in Ancient Near Eastern Empires (ANEE)

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Kvalifikationer

Forskningsledare (Principal Investigator)

Tidsperiod : 01.06.2010 - 31.12.2017 i Institutionen för moderna språk 2010-2017

Forskningsledare (Principal Investigator)

Tidsperiod : 15.05.2018 - * i Avdelningen för digital humaniora

Anställning

forskningsdirektör

Avdelningen för digital humaniora

Helsingfors universitet

Finland

1 jan 2018 → present

teamledare

Centre of Excellence in Ancient Near Eastern Empires (ANEE)

Helsingfors universitet

1 jan 2018 → 31 dec 2025

Handledare för doktorandprogram

Doktorandprogrammet i språkforskning

Helsingfors universitet

1 jan 2014 → present

Forskningsoutput

2019

Automatic Language Identification in Texts: A Survey

Jauhiainen, T., Lui, M., Zampieri, M., Baldwin, T. & Lindén, K., 13 maj 2019, (!Accepted/In press) I : Journal of Artificial Intelligence Research. 97 s.

Discriminating between Mandarin Chinese and Swiss-German varieties using adaptive language models

Jauhiainen, T. S., Jauhiainen, H. A. & Linden, B. K. J., 30 apr 2019, *Proceedings of the Sixth Workshop on NLP for Similar Languages, Varieties and Dialects (VarDial 2019)*. Stroudsburg: Association for Computational Linguistics, s. 178-187 10 s.

Language and Dialect Identification of Cuneiform Texts

Jauhiainen, T. S., Jauhiainen, H. A., Alstola, T. & Linden, B. K. J., 30 apr 2019, *Proceedings of the Sixth Workshop on NLP for Similar Languages, Varieties and Dialects (VarDial 2019)*. Stroudsburg: Association for Computational Linguistics

, s. 89-98 10 s.

Language Model Adaptation for Language and Dialect Identification of Text

Jauhiainen, T. S., Linden, B. K. J. & Jauhiainen, H. A., 17 apr 2019, (Accepted/In press) *I : Natural Language Engineering*.

Aššur and His Friends: A Statistical Analysis of Neo-Assyrian Texts

Alstola, T., Zaia, S., Sahala, A., Jauhiainen, H., Svärd, S. & Linden, K., 2019, *I : Journal of Cuneiform Studies*. 71, s. 159-180 22 s.

Improving OCR of historical newspapers and journals published in Finland

Drobac, S., Kauppinen, P. & Linden, K., 2019, (Accepted/In press) *Proceedings of the 3rd International Conference on Digital Access to Textual Cultural Heritage*. ACM

2018

Vad får AI för bild av mänskligheten?

Linden, B. K. J., 26 nov 2018, *I : Yliopistolainen : Helsingin yliopiston henkilöstölehti*. 4/2018, s. 9 1 s.

FinnTransFrame: translating frames in the FinnFrameNet project

Lindén, K., Haltia, H., Laine, A., Luukkonen, J., Piitulainen, J. & Väisänen, N., 22 nov 2018, *I : Language Resources and Evaluation*. 31 s.

Challenges of transformation of research data into open data: The perspective of social sciences and humanities

Kelli, A., Mets, T., Vider, K., Värvi, A., Jonsson, L., Lindén, K. & Birtonas, R., sep 2018, *I : International Journal of Technology Management & Sustainable Development*. 17, 3, s. 227-251 25 s.

Semantic Domains in Akkadian Text

Svärd, S. S., Jauhiainen, H. A., Linden, B. K. J. & Sahala, A. J. A., 7 aug 2018, *CyberResearch on the Ancient Near East and Neighboring Regions: Case Studies on Archaeological Data, Objects, Texts, and Digital Archiving*. Juloux, V. B., Gansell, A. R. & di Ludovico, A. (red.). Leiden: Brill, s. 224-256 33 s. (Digital Biblical Studies; nr. 2).

HeLI-based Experiments in Discriminating Between Dutch and Flemish Subtitles

Jauhiainen, T. S., Jauhiainen, H. A. & Linden, B. K. J., aug 2018, *Proceedings of the Fifth Workshop on NLP for Similar Languages, Varieties and Dialects (VarDial 2018)*. Zampieri, M., Nakov, P., Ljubešić, N., Tiedemann, J., Malmasi, S. & Ali, A. (red.). Santa Fe: Association for Computational Linguistics, s. 137-144 8 s.

HeLI-based Experiments in Swiss German Dialect Identification

Jauhiainen, T. S., Jauhiainen, H. A. & Linden, B. K. J., aug 2018, *Proceedings of the Fifth Workshop on NLP for Similar Languages, Varieties and Dialects (VarDial 2018)*. Zampieri, M., Nakov, P., Ljubešić, N., Tiedemann, J., Malmasi, S. & Ali, A. (red.). Santa Fe: Association for Computational Linguistics, s. 254-262 9 s.

Iterative Language Model Adaptation for Indo-Aryan Language Identification

Jauhiainen, T. S., Jauhiainen, H. A. & Linden, B. K. J., aug 2018, *Proceedings of the Fifth Workshop on NLP for Similar Languages, Varieties and Dialects (VarDial 2018)*. Zampieri, M., Nakov, P., Ljubešić, N., Tiedemann, J., Malmasi, S. & Ali, A. (red.). Santa Fe: Association for Computational Linguistics, s. 66-75 10 s.

The Dagstuhl Perspectives Workshop on Performance Modeling and Prediction

Ferro, N., Fuhr, N., Grefenstette, G., Konstan, J. A., Castells, P., Daly, E. M., Declerck, T., Ekstrand, M. D., Geyer, W., Gonzalo, J., Kuflik, T., Lindén, K., Magnini, B., Nie, J.-Y., Perego, R., Shapira, B., Soboroff, I., Tintarev, N., Verspoor, K., Willemsen, M. C. & Zobel, J., jun 2018, *I : SIGIR Forum*. 52, 1, s. 91-101 11 s.

Implementation of an Open Science Policy in the context of management of CLARIN language resources: a need for changes?

Kelli, A., Lindén, K., Vider, K., Labropoulou, P., Ketzan, E., Kamocki, P. & Stranák, P., 16 maj 2018, *Selected papers from the CLARIN Annual Conference 2017, Budapest, 18–20 September 2017*. Piasecki, M. (red.). Linköping: Linköping

University Electronic Press, Vol. 147. s. 102-111 10 s. 009. (Linköping Electronic Conference Proceedings; nr. 147).

Tieteen kansallinen termipankki (TTP) ja tiedonlouhinnan apuneuvot

Hardwick, S., Enqvist, E. J., Onikki-Rantajääskö, T. A. & Linden, B. K. J., 7 maj 2018. 1 s.

Rethinking Summarization and Storytelling for Modern Social Multimedia

Rudinac, S., Chua, T-S., Diaz-Ferreira, N., Friedland, G., Gornostaja, T., Huet, B., Kaptein, R., Lindén, K., Moens, M-F., Peltonen, J., Redi, M., Schedl, M., Shamma, D. A., Smeaton, A. & Xie, L., 28 jan 2018, *MultiMedia Modeling: 24th International Conference, MMM 2018, Bangkok, Thailand, February 5-7, 2018, Proceedings, Part I*. Schoeffmann, K., Chalidabhongse, T. H., Ngo, C. W., Aramvith, S., O'Connor, N. E., Ho, Y-S., Gabbouj, M. & Elgammal, A. (red.). Cham: Springer International Publishing AG, Vol. 1. s. 632-644 13 s. (LNCS; nr. 10704).

From Evaluating to Forecasting Performance: How to Turn Information Retrieval, Natural Language Processing and Recommender Systems into Predictive Sciences

Ferro, N., Fuhr, N., Grefenstette, G., Konstan, J. A., Castells, P., Daly, E. M., Declerck, T., Ekstrand, M. D., Geyer, W., Gonzalo, J., Kuflik, T., Lindén, K., Magnini, B., Nie, J-Y., Perego, R., Shapira, B., Soboroff, I., Tintarev, N., Verspoor, K., Willemsen, M. C. & Zobel, J., 2018, I : Dagstuhl manifestos. 7, 1, s. 96-139 44 s.

Keeleressursside loomise ja kasutamise seonduvaid isikuandmete kaitse küsimusi

Kelli, A., Vider, K., Kull, I., Siil, T., Lindén, K., Tavast, A., Värv, A., Ginter, C. & Meister, E., 2018, I : Eesti rakenduslingvistika ühingu aastaraamat. 14, s. 77-94 18 s.

Rethinking Summarization and Storytelling for Modern Social Multimedia

Rudinac, S., Chua, T-S., Diaz-Ferreira, N., Friedland, G., Gornostaja, T., Huet, B., Kaptein, R., Linden, K., Moens, M-F., Peltonen, J., Redi, M., Schedl, M., Shamma, D. A., Smeaton, A. & Xie, L., 2018, s. 141-153. 13 s.

2017

FinnFN 1.0: The Finnish frame semantic database

Lindén, K., Haltia, H., Luukkonen, J., Laine, A., Roivainen, H. & Väisänen, N., 14 aug 2017, I : Nordic journal of linguistics. 40, 3, s. 1-25 25 s.

Evaluating HeLI with non-linear mappings

Jauhiainen, T. S., Linden, B. K. J. & Jauhiainen, H. A., 2017, *Fourth Workshop on NLP for Similar Languages, Varieties and Dialects - Proceedings of the Workshop*. Stroudsburg: Association for Computational Linguistics, s. 102-108 7 s.

Evaluation of language identification methods using 285 languages

Jauhiainen, T. S., Linden, B. K. J. & Jauhiainen, H. A., 2017, *21st Nordic Conference of Computational Linguistics: Proceedings of the Conference*. Tiedemann, J. (red.). Linköping: Linköping University Electronic Press, s. 183-191 9 s. (Linköping Electronic Conference Proceedings; nr. 31).

OCR and post-correction of historical Finnish texts

Drobac, S., Kauppinen, P. S. & Linden, B. K. J., 2017, *Proceedings of the 21st Nordic Conference on Computational Linguistics, NoDaLiDa, 22-24 May 2017, Gothenburg, Sweden*. Tiedemann, J. (red.). Linköping: Linköping University Electronic Press, s. 70-76 7 s. (Linköping Electronic Conference Proceedings; nr. 131).

2016

FinnPos: an open-source morphological tagging and lemmatization toolkit for Finnish

Silfverberg, M., Ruokolainen, T., Linden, K. & Kurimo, M., dec 2016, I : Language Resources and Evaluation. 50, 4, s. 863-878 16 s.

In-Document Adaptation for a Human Guided Automatic Transcription Service

Mansikkaniemi, A., Kurimo, M. & Linden, B. K. J., 13 aug 2016, *Speech and Computer : 18th International Conference, SPECOM 2016, Budapest, Hungary, August 23-27, 2016, Proceedings*. Ronzhin, A., Potapova, R. & Németh, G. (red.). Cham: Springer International Publishing AG, s. 395-402 8 s. (Lecture Notes in Computer Science; vol. 9811).

Data-Driven Spelling Correction using Weighted Finite-State Methods

Silfverberg, M., Kauppinen, P. & Linden, K., 12 aug 2016, *The 54th Annual Meeting of the Association for Computational Linguistics: Proceedings of the SIGFSM Workshop on Statistical NLP and Weighted Automata*. Stroudsburg, PA: ACL, s. 51-59 9 s.

The strategic impact of META-NET on the regional, national and international level

Rehm, G., Uszkoreit, H., Ananiadou, S., Bel, N., Bieleveciene, A., Borin, L., Branco, A., Budin, G., Calzolari, N., Daelemans, W., Garabik, R., Grobelnik, M., Garcia-Mateo, C., van Genabith, J., Hajic, J., Hernaez, I., Judge, J., Koeva, S., Krek, S., Krstev, C. & 24 andraLinden, K., Magnini, B., Mariani, J., McNaught, J., Meler, M., Monachini, M., Moreno, A., Odijk, J., Ogrodniczuk, M., Pezik, P., Piperidis, S., Przepiorkowski, A., Rognvaldsson, E., Rosner, M., Pedersen, B. S., Skadina, I., De Smedt, K., Tadic, M., Thompson, P., Tufis, D., Varadi, T., Vasiljevs, A., Vider, K. & Zabarskaite, J., jun 2016, I : *Language Resources and Evaluation*. 50, 2, s. 351-374 24 s.

Eduskunnan täysistuntovideoiden ja keskustelupöytäkirjojen automaattinen kohdistaminen AaltoASR-työkalulla

Mansikkaniemi, A., Kurimo, M., Lennes, M. E. & Linden, B. K. J., 23 maj 2016.

The Regulatory and Contractual Framework as an Integral Part of the CLARIN Infrastructure

Kelli, A., Vider, K. & Lindén, K., 11 apr 2016, *Selected Papers from the CLARIN Annual Conference 2015, October 14–16, 2015, Wrocław, Poland: NEALT Proceedings Series*. DeSmedt, K. (red.). Linköping: Linköping University Electronic Press, Vol. 123. s. 13-24 12 s. 002. (Linköping Electronic Conference Proceedings; vol. 123).

Digitaalsete keeleressursside loomist ja kasutamist määrav õiguslik raamistik Eestis ja selle ühildumine CLARIN-i infrastruktuuriga

Kelli, A., Vider, K., Pisuke, H. & Linden, B. K. J., 2016, I : *Eesti rakenduslingvistika ühingu aastaraamat*. 12, s. 81-98 18 s.

HeLI, a Word-Based Backoff Method for Language Identification

Jauhiainen, T. S., Linden, B. K. J. & Jauhiainen, H. A., 2016, *Proceedings of the Third Workshop on NLP for Similar Languages, Varieties and Dialects: VarDial3, Osaka, Japan, December 12 2016*. s. 153-162 10 s.

2015

Using HFST—Helsinki Finite-State Technology for Recognizing Semantic Frames

Lindén, K., Hardwick, S., Silfverberg, M. & Axelson, E., 9 dec 2015, *Systems and Frameworks for Computational Morphology*. Springer International Publishing AG, s. 124-136 13 s. (Communications in Computer and Information Science; vol. 537).

Regulatory and Contractual Framework as an Integral Part of CLARIN Infrastructure: the Estonian and Finnish Perspectives

Kelli, A., Vider, K. & Linden, K., okt 2015, *CLARIN Annual Conference 2015: Book of Abstracts*. De Smedt, K. (red.). Wrocław, Poland: CLARIN ERIC, s. 32-36 5 s.

Extracting Semantic Frames using hfst-pmatch

Hardwick, S., Silfverberg, M. & Linden, K., maj 2015, *Proceedings of the 20th Nordic Conference of Computational Linguistics: NODALIDA 2015*. Magyesi, B. (red.). Linköping: Linköping University Electronic Press, s. 305-308 4 s. 109:042. (Linköping Electronic Conference Proceedings).

Automated Lossless Hyper-Minimization for Morphological Analyzers

Drobac, S., Silfverberg, M. & Linden, K., 22 apr 2015, *Proceedings of the 12th International Conference on Finite-State Methods and Natural Language Processing 2015: Collected papers*. Hanneforth, T. & Wurm, C. (red.). ACL, 5 s.

The Finno-Ugric Languages and the Internet project

Jauhiainen, H., Jauhiainen, T. & Linden, K., 15 jan 2015, *First International Workshop on Computational Linguistics for Uralic Languages: Proceedings of the Workshop*. Pirinen, T., Tyers, F. & Trosterud, T. (red.). Tromsø: Septentrio Academic Publishing, Vol. 2. s. 87–98 12 s. (Septentrio Conference Series; vol. 2015, nr. 2).

Discriminating similar languages with token-based backoff

Jauhiainen, T., Jauhiainen, H. & Linden, K., 2015, *Proceedings of the Joint Workshop on Language Technology for Closely Related Languages, Varieties and Dialects*. Association for Computational Linguistics, s. 44-51 8 s.

Language Set Identification in Noisy Synthetic Multilingual Documents

Jauhiainen, T. S., Linden, K. & Jauhiainen, H. A., 2015, *Computational Linguistics and Intelligent Text Processing*. Gelbukh, A. (red.). Springer International Publishing AG, Vol. Part I. s. 633-643 11 s. (Lecture Notes in Computer Science; vol. 9041).

Tutkimuksen haasteet digitaalisessa ajassa

Linden, K., 2015, I : Kansalliskirjasto. 57, s. 41-42 2 s.

2014

Analyzing and Improving the Quality of a Historical News Collection using Language Technology and Statistical Machine Learning Methods

Kettunen, K., Honkela, T., Linden, K., Kauppinen, P., Pääkkönen, T. & Kervinen, J., 16 aug 2014, *IFLA World Library and Information Congress Proceedings: 80th IFLA General Conference and Assembly*. Lyon, France: IFLA, 23 s.

FIN-CLARIN – en humanistisk forskningsinfrastruktur med betoning på språk

Linden, B. K. J., jul 2014, I : Språk i Norden = Sprog i Norden : årsskrift for Nordisk språkråd og språknemdene i Norden. s. 126-132 7 s.

Part-of-Speech Tagging using Conditional Random Fields: Exploiting Sub-Label Dependencies for Improved Accuracy

Silfverberg, M., Ruokolainen, T., Linden, K. & Kurimo, M., 22 jun 2014, *Unknown host publication*.

CLARA: A New Generation of Researchers in Common Language Resources and Their Applications

Koenraad De Smedt, Erhard Hinrichs, Detmar Meurers, Inguna Skadina, Bolette Pedersen, Costanza Navarretta, Núria Bel, Krister Linden, Marketa Lopatkova, Jan Hajic, Gisle andersen and Przemyslaw Lenkiewicz, 26 maj 2014, *Proceedings of LREC 2014*. Reykjavik, Iceland: European Language Resources Association (ELRA), 9 s. #410

HFST-SweNER – A New NER Resource for Swedish

Kokkinakis, D., Niemi, J., Hardwick, S., Linden, K. & Borin, L., 26 maj 2014, *Proceedings of the Ninth International Conference on Language Resources and Evaluation (LREC'14)*. Calzolari, N., Choukri, K., Declerck, T., Loftsson, H., Maegaard, B., Mariani, J., Moreno, A., Odijk, J. & Piperidis, S. (red.). Reykjavik, Iceland: European Language Resources Association (ELRA), 7 s. #391

Heuristic Hyper-minimization of Finite State Lexicons

Drobac, S., Linden, K., Pirinen, T. & Silfverberg, M., 26 maj 2014, *Proceedings of the Ninth International Conference on Language Resources and Evaluation (LREC'14)*. Reykjavik, Iceland: European Language Resources Association (ELRA), Vol. 9. 6 s. #784

The Strategic Impact of META-NET on the Regional, National and International Level

Georg Rehm, Hans Uszkoreit, Sophia Ananiadou, Núria Bel, Audrone Bieleviciene, Lars Borin, António Branco, Gerhard Budin, Nicoletta Calzolari, Walter Daelemans, Radovan Garabik, Marko Grobelnik, Carmen Garcia-Mateo, Josef Van Genabith, Jan Hajic, Inma Hernaez, John Judge, Svetla Koeva, Simon Krek, Cvetana Krstev, Krister Lindén, Bernardo Magnini, Joseph Mariani, John Mcnaught, Maite Melero, Monica Monachini, Asuncion Moreno, Jan Odijk, Maciej Ogrodniczuk, Piotr Pezik, Stelios Piperidis, Adam Przepiórkowski, Eiríkur Rögnvaldsson, Michael Rosner, Bolette Sandford Pedersen, Inguna Skadina, Koenraad De Smedt, Marko Tadić, Paul Thompson, Dan Tufi, Tamás Váradi, Andrejs Vasiljevs, Kadri Vider, Jolanta Zabarskaite, 26 maj 2014, *Proceedings of LREC 2014*. Reykjavik, Iceland: European Language Resources Association (ELRA), s. 1517-1524 8 s. #405

Accelerated Estimation of Conditional Random Fields using a Pseudo-Likelihood-inspired Perceptron Variant

Ruokolainen, T., Silfverberg, M., Kurimo, M. & Linden, K., 26 apr 2014, *Proceedings of the 14th Conference of the European Chapter of the Association for Computational Linguistics: EACL 2014*. ACL, 5 s.

State-of-the-Art in Weighted Finite-State Spell-Checking

Pirinen, T. & Linden, K., 6 apr 2014, *Computational Linguistics and Intelligent Text Processing: 15th International Conference, CICLing 2014, Kathmandu, Nepal, April 6-12, 2014, Proceedings, Part II*. Gelbukh, A. (red.). Berlin Heidelberg: Springer-Verlag, Vol. 2. s. 519-532 14 s. (Lecture Notes in Computer Science; vol. 8404).

2013

Software Newsroom – an approach to automation of news search and editing

Huovelin, J., Gross, O., Solin, O., Linden, K., Maisala, S. P. T., Oittinen, T., Toivonen, H., Niemi, J. & Silfverberg, M., 7 nov 2013, I : *Journal of Print Media Technology research*. 2, 3, s. 141-156 15 s.

HFST—a System for Creating NLP Tools

Linden, K., Axelson, E., Drobac, S., Hardwick, S., Kuokkala, J., Niemi, J., Pirinen, T. & Silfverberg, M., sep 2013, *Systems and Frameworks for Computational Morphology: Communications in Computer and Information Science*. Mahlow, C. & Piotrowski, M. (red.). Springer-Verlag, s. 53-71 20 s. (Communications in Computer and Information Science).

Baltic and Nordic Parts of the European Linguistic Infrastructure

Skadina, I., Vasiljevs, A., Borin, L., Linden, K., Losnegaard, G., Olsen, S., Pedersen, B., Rozis, R. & De Smedt, K., 20 maj 2013, *Proceedings of NODALIDA 2013*. Linköping University Electronic Press, 16 s.

Nordic and Baltic wordnets aligned and compared through “WordTies”

Pedersen, B., Linden, K., Vider, K., Forsberg, M., Kahusk, N., Niemi, J., Nygaard, L., Seaton, M., Orav, H., Borin, L., Voionmaa, K., Nisbeth, N. & Rognvaldsson, E., 20 maj 2013, *Proceedings of NODALIDA 2013*. Linköping University Press, 16 s. (Linköping Electronic Conference Proceedings; nr. 85).

Is It Possible to Create a Very Large WordNet in 100 days? – an Evaluation

Linden, K. & Niemi, J., 2013, I : *Language Resources and Evaluation*. 48, 2, s. 191-201 10 s.

2012

Building shared language research environments inside the European Union: How to optimize the system based on experiences from real life

Oksanen, V. & Linden, K., 12 sep 2012, *Unknown host publication*. 12 s.

Extending and Updating the Finnish Wordnet

Linden, K., Niemi, J. & Hyvärinen, M., 14 aug 2012, *Shall We Play the Festschrift Game? Essays on the Occasion of Lauri Carlson's 60th Birthday*. Springer-Verlag, s. 67-98 32 s.

Shall We Play the Festschrift Game? Essays on the Occasion of Lauri Carlson's 60th Birthday

Sousa, D., Linden, K. & Nganga, W., 14 aug 2012, Springer-Verlag. 241 s.

Creation of Shared Language Resource Repository in the Nordic and Baltic Countries

Vasiljevs, A., Forsberg, M., Goronstay, T., Hansen, D., Jóhannsdóttir, K., Linden, K., Lyse, G., Offersgaard, L., Olsen, S., Oksanen, V., Pedersen, B., Rognvaldsson, E., Skadina, I. & de Smedt, K., 23 maj 2012, *The eighth international conference on Language Resources and Evaluation (LREC): LREC 2012*. Istanbul, Vol. 8. 8 s.

Representing the Translation Relation in a Bilingual Wordnet

Niemi, J. & Linden, K., 23 maj 2012, *The eighth international conference on Language Resources and Evaluation (LREC): LREC 2012*. Istanbul: European Language Resources Association (ELRA), Vol. 8. 8 s.

Specifying Treebanks, Outsourcing Parsebanks: FinnTreeBank 3

Voutilainen, A., Muhonen, K., Purtonen, T. K. & Linden, K., 23 maj 2012, *Proceedings of LREC 2012: 8th ELRA Conference on Language Resources and Evaluation*. Calzolari, N., Choukri, K., Declerck, T., Dogan, M. U., Maegaard, B., Mariani, J., Odijk, J. & Piperidis, S. (red.). Paris: European Language Resources Association (ELRA), s. 1927-1931 5 s.

Improving Finite-State Spell-Checker Suggestions with Part of Speech N-Grams

Pirinen, T., Silfverberg, M. & Linden, K., 9 mar 2012, *Computational Linguistics and Intelligent Text Processing: 13th International Conference, CICLing 2012*. Gelbukh, A. (red.). Delhi, India, 11 s.

Predictive Text Entry for Agglutinative Languages Using Unsupervised Morphological Segmentation

Silfverberg, M., Linden, K. & Hyvärinen, M., 9 mar 2012, I : *Lecture Notes in Computer Science*. 12 s.

FinnTreeBank 2

Voutilainen, A., Purtonen, T. K., Muhonen, K., Hardwick, S. & Linden, K., feb 2012

Finding a Location for a New Word in WordNet

Pääkkö, P. & Linden, K., 9 jan 2012, *Proceedings of the Global Wordnet Conference*. Matsue, Japan, 8 s.

Linking and Validating Nordic and Baltic Wordnets - A Multilingual Action in META-NORD

Sanford Pedersen, B., Borin, L., Forsberg, M., Linden, K., Orav, H. & Rognvaldsson, E., 9 jan 2012, *Proceedings of the Global Wordnet Conference*. Matsue, Japan, 5 s.

Using a Bilingual Resource to Add Synonyms to a Wordnet: FinnWordNet and Wikipedia as an Example

Niemi, J., Linden, K. & Hyvärinen, M., 9 jan 2012, *Proceedings of the Global Wordnet Conference*. Matsue, Japan, s. 227–231 5 s.

HFST - an Environment for Creating Language Technology Applications

Linden, K., Silfverberg, M., Pirinen, T., Hardwick, S., Drobac, S. & Axelson, E., 2012, *COMPUTATIONAL LINGUISTICS – APPLICATIONS*. Piasecki, M. & Przepiórkowski, A. (red.). Springer-Verlag, 20 s. (Studies in Computational Intelligence).

Suomen kieli digitaalisella aikakaudella

Koskenniemi, K., Linden, K., Carlson, L., Vainio, M., Arppe, A., Lennes, M., Westerlund, H., Hyvärinen, M., Bartis, I., Nuolijärvi, P. & Piehl, A., 2012, Berlin: Springer-Verlag. 85 s.

2011

META-NORD: Towards Sharing of Language Resources in Nordic and Baltic Countries

Skadina, I., Vasiljevs, A., Borin, L., De Smedt, K., Linden, K. & Rognvaldsson, E., 12 nov 2011, *The 5th International Joint Conference on Natural Language Processing*. Chiang Mai, Thailand, 9 s.

HFST—Framework for Compiling and Applying Morphologies

Linden, K., Silfverberg, M., Axelson, E., Hardwick, S. & Pirinen, T., 26 aug 2011, *Systems and Frameworks for Computational Morphology*. Mahlow, C. & Pietrowski, M. (red.). Springer, Vol. Vol. 100. s. 67-85 18 s. (Communications in Computer and Information Science; vol. 100).

Do wordnets also improve human performance on NLP tasks?

Muhonen, K. & Linden, K., 12 maj 2011, *NEALT Proceedings Series Vol. 11*. Riga, Latvia: Northern European Association for Language Technology , Vol. 11. 7 s. (NEALT Proceedings Series).

FIN-CLARIN: A Framework for Depositing and Disseminating Language Resources for R&D

Voutilainen, A. & Linden, K., 11 maj 2011, *NEALT Proceedings Series*. Riga, Latvia, 4 s. (NEALT Proceedings Series).

Open Content Licenses: How to choose the right one

Oksanen, V. & Linden, K., 11 maj 2011, *NEALT Proceedings Series*. Riga, Latvia, Vol. 13. 7 s. (NEALT Proceedings Series).

Combining Statistical Models for POS Tagging using Finite-State Calculus

Silfverberg, M. & Linden, K., 9 maj 2011, *Proceedings of the 18th Conference of Computational Linguistics NODALIDA 2011*. Pedersen, B. & Skadiņa, I. (red.). Northern European Association for Language Technology, s. 183–190 8 s. (NEALT Proceedings Series; vol. 11).

Designing a Dependency Representation and Grammar Definition Corpus for Finnish

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HFST-Framework for Compiling and Applying Morphologies

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2009

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2008

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2007

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2006

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2005

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2004

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2003

Word Sense Disambiguation with THESSOM

Linden, K., sep 2003, *Proceedings of WSOM'03 - Intelligent Systems and Innovational Computing*.

2002

Word Sense Disambiguation in Document Space

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1997

Language Applications with Finite-State Technology

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1987

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Projekt

1. **FIN-CLARIN - Kielipankki**
Linden, K., Piitulainen, J., Niemi, J., Lennes, M., Bartis, I., Westerlund, H., Drobac, S., Axelson, E. & Kauppinen, P.
05/06/2006 → ...
2. **FinnWordNet - A Finnish WordNet**
Linden, K., Niemi, J., Hyvärinen, M., Muhonen, K. & Pääkkö, P.
01/01/2010 → ...
3. **HFST - Helsinki Finite-State Technology**
Linden, K., Koskenniemi, K., Yli-Jyrä, A., Hulten, M., Silfverberg, M., Pirinen, T., Axelson, E., Hardwick, S., Niemi, J. & Hurskainen, A.
01/01/2005 → ...
4. **ANEE: Team 1: Digital Humanities Approaches**
Svärd, S., Linden, K., Bach, J., Jauhiainen, T., Jauhiainen, H., Sahala, A., Konstantopoulos, G., Fink, S. & Zaia, S.
01/01/2018 → 31/12/2025
5. **Semantic Domains in Akkadian Texts**
Linden, K., Alstola, T., Jauhiainen, H., Jauhiainen, T., Sahala, A., Svärd, S. & Zaia, S.
01/09/2016 → 31/08/2020
6. **FIN-CLARIN UPGRADE - CLARINin vahvistaminen Suomessa FIN-CLARIN UPGRADE - Förstärkning av CLARIN i Finland**
Linden, K., Lennes, M., Westerlund, H., Piitulainen, J., Niemi, J., Axelson, E., Jauhiainen, T., Drobac, S., Hardwick, S., Kauppinen, P., Voutilainen, A., Dieckmann, U., Palolahti, M., Matthiesen, M. & Aalto, T.
01/01/2017 → 31/12/2019
7. **Finno-Ugric Languages and the Internet**
Linden, K., Jauhiainen, H. & Jauhiainen, T.
01/01/2013 → 31/12/2018
8. **FIN-CLARIN-INVEST2 - Yhteiskäyttöisten kielivarojen ja -teknologian kohentaminen CLARINia varten Suomessa FIN-CLARIN-INVEST2 - Uppgradering av de gemensamma språkresurserna och -teknologin för CLARIN i Finland**
Linden, K.
01/01/2015 → 28/02/2017
9. **FINNCLARIN CONTENT**
Linden, K. & Koskenniemi, K.
01/01/2011 → 31/12/2015
10. **FIN-CLARIN-INVEST - Yhteiskäyttöisten kielivarojen ja -teknologian kohentaminen CLARINia varten Suomessa FIN-CLARIN-INVEST - Uppgradering av de gemensamma språkresurserna och -teknologin för CLARIN i Finland**
Linden, K.
01/01/2014 → 31/12/2014
11. **CLARA - Common Language Resources and their Applications**
Koskenniemi, K. & Linden, K.
Unknown funder
01/12/2009 → 31/03/2014

12. **Respeaking**
Tiittula, L., Linden, K., Bacon, H., Carlson, L., Eskelinen, J., Hartama-Heinonen, R., Koponen, M., Kukkonen, P., Mikkonen, K. & Pekkilä, E. O.
Humanistinen tdk
01/02/2013 → 31/12/2013
13. **FIN-CLARIN-BUILD - CLARINin vahvistaminen Suomessa**FIN-CLARIN-BUILD - etablering av CLARIN i Finland
Linden, K.
14/12/2012 → 31/12/2013
14. **META-NORD: Baltic and Nordic Parts of the European Open Linguistic Infrastructure**
Linden, K., Koskenniemi, K. & Bartis, I.
EU FP7
01/02/2011 → 31/01/2013
15. **FIN-CLARIN: Finnish Language Resource Infrastructure**
Koskenniemi, K. & Linden, K.
01/01/2007 → 31/12/2012
16. **Common Language Resources and Technology Infrastructure (CLARIN)**
Koskenniemi, K., Linden, K., Oksanen, V. & Yangarber, R.
01/01/2008 → 30/06/2011

Aktiviteter

Post-doctoral mentor / Måns Huldén

Krister Linden (Post doc mentor)

12 jan 2009 → 11 dec 2011

Aktivitet: Examinationstyper › Post doctoral mentor

Examination of doctoral dissertation / Grégoire Détérez

Krister Linden (Opponent), Bo Krister Johan Linden (Förhandsgranskare)

2016

Aktivitet: Examinationstyper › Opponent i doktorsavhandling

Exmiation of doctoral dissertation / Sami Virpioja

Krister Linden (Opponent), Bo Krister Johan Linden (Förhandsgranskare)

2012

Aktivitet: Examinationstyper › Opponent i doktorsavhandling

Examination of doctoral dissertation / Tuomo Kakkonen

Krister Linden (Förhandsgranskare)

1 sep 2007 → 15 sep 2007

Aktivitet: Examinationstyper › Förhandsgranskare av doktorsavhandling

Examination of doctoral dissertation / Vesa Siivola

Krister Linden (Förhandsgranskare)

15 maj 2007 → 31 maj 2007

Aktivitet: Examinationstyper › Förhandsgranskare av doktorsavhandling

Supervisor of doctoral thesis in Language Technology / Emily Öhman

Krister Linden (Bihandledare)

1 aug 2016 → ...

Aktivitet: Examinationstyper › Handledare eller bihandledare av doktorsavhandling

Supervisor of doctoral thesis in Language Technology / Miikka Silfverberg

Bo Krister Johan Linden (Handledare), Anssi Yli-Jyrä (Handledare)

1 jan 2010 → 22 okt 2016

Aktivitet: Examinationstyper › Handledare eller bihandledare av doktorsavhandling

Supervisor of doctoral thesis in Language Technology / Senka Drobac

Krister Linden (Handledare)

1 jan 2012 → ...

Aktivitet: Examinationstyper › Handedare eller bihandledare av doktorsavhandling

Supervisor of doctoral thesis in Language Technology / Tommi Jauhiainen

Krister Linden (Handledare)

1 jun 2011 → ...

Aktivitet: Examinationstyper › Handedare eller bihandledare av doktorsavhandling

Supervisor of doctoral thesis in Language Technology / Tommi Pirinen

Krister Linden (Handledare)

1 jan 2010 → 2 dec 2014

Aktivitet: Examinationstyper › Handedare eller bihandledare av doktorsavhandling

Cabinet of Commissioner Leonard Orban at the European Commission (Extern organisation)

Krister Linden (Expert)

1 apr 2008 → 31 mar 2009

Aktivitet: Medlemskapstyper › Medlemskap eller annan roll i inhemskt/internationellt offentligt organ

Nordiska Ministerrådet (Extern organisation)

Krister Linden (Expert)

1 jan 2006 → 31 dec 2006

Aktivitet: Medlemskapstyper › Medlemskap eller annan roll i inhemskt/internationellt offentligt organ

CLARIN - Common Language Resources and Technology Infrastructure (Extern organisation)

Krister Linden (Styrelsemedlem)

1 jan 2010 → 31 dec 2011

Aktivitet: Medlemskapstyper › Medlemskap eller annan role i inhemsk/internationell kommitté, råd, styrelse

ESF - European Science Foundation (Extern organisation)

Krister Linden (Expert)

24 maj 2011 → 23 maj 2015

Aktivitet: Medlemskapstyper › Medlemskap eller annan role i inhemsk/internationell kommitté, råd, styrelse

HAKA - Identity federation of the Finnish universities, polytechnics and research institutions (Extern organisation)

Krister Linden (Styrelsemedlem)

2012 → 2013

Aktivitet: Medlemskapstyper › Medlemskap eller annan role i inhemsk/internationell kommitté, råd, styrelse

KIT Language Technology Graduate School of Finland (Extern organisation)

Krister Linden (Expert)

1 jan 2001 → 31 dec 2005

Aktivitet: Medlemskapstyper › Medlemskap eller annan role i inhemsk/internationell kommitté, råd, styrelse

Langnet (Extern organisation)

Krister Linden (Styrelsemedlem)

1 jan 2012 → 31 dec 2015

Aktivitet: Medlemskapstyper › Medlemskap eller annan role i inhemsk/internationell kommitté, råd, styrelse

Lantern - Language Technology Research Network (Extern organisation)

Krister Linden (Sekreterare)

1 jan 2005 → 31 dec 2007

Aktivitet: Medlemskapstyper › Medlemskap eller annan role i inhemsk/internationell kommitté, råd, styrelse

META-TRUST (Extern organisation)

Krister Linden (Styrelsemedlem)

12 sep 2012 → 31 jan 2017

Aktivitet: Medlemskapstyper › Medlemskap eller annan role i inhemsk/internationell kommitté, råd, styrelse

NYKYKIELET 2010-2017 (Organisation)

Krister Linden (Styrelsemedlem)

1 jan 2014 → 31 dec 2017

Aktivitet: Medlemskapstyper › Medlemskap eller annan role i inhemsk/internationell kommitté, råd, styrelse

Northen European Association for Language Technology (Extern organisation)

Krister Linden (Ordförande)

1 jan 2010 → 31 dec 2013

Aktivitet: Medlemskapstyper › Medlemskap eller annan role i inhemsk/internationell kommitté, råd, styrelse

Northen European Association for Language Technology (Extern organisation)

Krister Linden (Expert)

1 jan 2014 → 31 dec 2017

Aktivitet: Medlemskapstyper › Medlemskap eller annan role i inhemsk/internationell kommitté, råd, styrelse

Global Wordnet Association (Extern organisation)

Krister Linden (Medlem)

2012 → ...

Aktivitet: Medlemskapstyper › Medlemskap eller annan roll i forskningsnätverk

NEALT - North European Association for Language Technology (Extern organisation)

Krister Linden (Medlem)

2009 → ...

Aktivitet: Medlemskapstyper › Medlemskap eller annan roll i forskningsnätverk

Institutionen för moderna språk (Organisation)

Krister Linden (Assessment)

2014

Aktivitet: Medlemskapstyper › Utlåtanden vid tillsättning