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Language Technology
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Qualifications

Principal Investigator

Period : 01.06.2010 - 31.12.2017 in Department of Modern Languages 2010-2017

Principal Investigator

Period : 15.05.2018 - * in Department of Digital Humanities

Employment

Research Director

Department of Digital Humanities
University of Helsinki
Finland
1 Jan 2018 → present

Deputy Team Supervisor

Centre of Excellence in Ancient Near Eastern Empires (ANEE)
University of Helsinki
1 Jan 2018 → 31 Dec 2025

Title of Docent

Faculty Common Matters
University of Helsinki
1 Jan 2010 → present

Research outputs

2021

Fear in Akkadian Texts: New Digital Perspectives on Lexical Semantics

Svärd, S., Alstola, T., Jauhiainen, H., Sahala, A. & Linden, K., 2021, *The Expression of Emotions in Ancient Egypt and Mesopotamia*. Hsu, S-W. & Llop-Raduà, J. (eds.). Leiden: Brill, p. 470-502 (Culture and History of the Ancient Near East; vol. 116).

2020

A Report on the VarDial Evaluation Campaign 2020

Gaman, M., Hovy, D., Ionescu, R. T., Jauhiainen, H., Jauhiainen, T., Linden, K., Ljubešić, N., Partanen, N., Purschke, C., Scherrer, Y. & Zampieri, M., 13 Dec 2020, *Proceedings of the 7th Workshop on NLP for Similar Languages, Varieties and Dialects*. Zampieri, M., Nakov, P., Ljubešić, N., Tiedemann, J. & Scherrer, Y. (eds.). International Committee on

Optical character recognition with neural networks and post-correction with finite state methods

Drobac, S. & Linden, K., Dec 2020, In : International Journal on Document Analysis and Recognition. 23, 4, p. 279-295 17 p.

Improving Word Association Measures in Repetitive Corpora with Context Similarity Weighting

Sahala, A. & Lindén, K., Nov 2020, *Proceedings of the 12th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management, IC3K 2020, Volume 1: KDIR, Budapest, Hungary, November 2-4, 2020*. Fred, A. L. N. & Filipe, J. (eds.). Setúbal: SCITEPRESS Science And Technology Publications , p. 48-58 11 p.

Akkadian Treebank for early Neo-Assyrian Royal Inscriptions

Luukko, M., Sahala, A., Hardwick, S. & Lindén, K., 27 Oct 2020, *Proceedings of the 19th International Workshop on Treebanks and Linguistic Theories*. Evang, K., Kallmeyer, L., Ehren, R., Petitjean, S., Seyffarth, E. & Seddah, D. (eds.). Stroudsburg: The Association for Computational Linguistics, p. 124-134 11 p.

CLARIN contractual framework for sharing language data: the perspective of personal data protection

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A CLARIN Contractual Framework for Sharing Personal Data for Scientific Research

Linden, K., Kelli, A. & Nousias, A., 3 Jul 2020, *Selected Papers from the CLARIN Annual Conference 2019*. Simov, K. & Eskevich, M. (eds.). Linköping University Electronic Press, Vol. 172. p. 75–84 10. (Linköping Electronic Conference Proceedings).

The Impact of Copyright and Personal Data Laws on the Creation and Use of Models for Language Technologies

Kelli, A., Tavast, A., Lindén, K., Vider, K., Birštonas, R., Labropoulou, P., Kull, I., Tavits, G., Värvi, A. & Stranák, P., 3 Jul 2020, *Selected Papers from the CLARIN Annual Conference 2019*. Linköping University Electronic Press, p. 53-65 13 p. (Linköping Electronic Conference Proceedings).

Automated Phonological Transcription of Akkadian Cuneiform Text

Sahala, A., Silfverberg, M., Arppe, A. & Linden, K., 17 May 2020, *Proceedings of the 12th Conference on Language Resources and Evaluation (LREC 2020)*. Calzolari ... [et al.], N. (ed.). Paris: European Language Resources Association (ELRA), p. 3528-3934 7 p.

BabyFST: Towards a Finite-State Based Computational Model of Ancient Babylonian

Sahala, A., Silfverberg, M., Arppe, A. & Linden, K., 17 May 2020, *Proceedings of the 12th Conference on Language Resources and Evaluation (LREC 2020)*. Calzolari ... [et al.], N. (ed.). Paris: European Language Resources Association (ELRA), p. 3886-3894 9 p.

The European Language Technology Landscape in 2020: Language-Centric and Human-Centric AI for Cross-Cultural Communication in Multilingual Europe

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A Finnish news corpus for named entity recognition

Ruokolainen, T., Kauppinen, P., Silfverberg, M. & Lindén, K., Mar 2020, In : Language Resources and Evaluation. 54, 1, p. 247-272 26 p.

Building Web Corpora for Minority Languages

Jauhiainen, H., Jauhiainen, T. & Linden, K., 2020, *Proceedings of the 12th Web as Corpus Workshop*. Barbaresi, A., Bildhauer, F., Schäfer, R. & Stemle, E. (eds.). Stroudsburg: The Association for Computational Linguistics, p. 23-32 10 p.

Compatibility of business models of Estonian language technology entrepreneurs with regulatory framework on the use of digital content

Kull, I., Vider, K., Mets, T., Kelli, A. & Linden, K., 2020, In : *International Comparative Jurisprudence*. 6, 1, p. 70–83

Experiments in Language Variety Geolocation and Dialect Identification

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Impact of Legal Status of Data on Development of Data-Intensive Products: Example of Language Technologies

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Keeleandmete õigusliku režiimi mõju nende abil loodud keelemudelitele

Kelli, A., Vider, K., Tavast, A., Lindén, K., Birštonas, R., Labropoulou, P., Värvi, A., Kull, I., Tavits, G. & Ginter, C., 2020, In : *Eesti rakenduslingvistika ühingu aastaraamat*. 16, p. 59-76 18 p.

Uralic Language Identification (ULI) 2020 shared task dataset and the Wanca 2017 corpora

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Vestlusrobotid ja autoriõigus

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2019

The Extent of Legal Control over Language Data: the Case of Language Technologies

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To Ask or not to Ask: Informed Consent to Participate and Using Data in the Public Interest

Linden, K., Kelli, A. & Nousias, A., 30 Sep 2019, *Proceedings of CLARIN Annual Conference 2019*. Simov, K. & Eskevich, M. (eds.). CLARIN ERIC, p. 56-60

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Jauhiainen, T. S., Linden, B. K. J. & Jauhiainen, H. A., Sep 2019, In : *Natural Language Engineering*. 25, 5, p. 561-583 23 p., 135132491900038.

Automatic Language Identification in Texts: A Survey

Jauhiainen, T., Lui, M., Zampieri, M., Baldwin, T. & Lindén, K., 25 Aug 2019, In : *Journal of Artificial Intelligence Research*. 65, p. 675-782 108 p.

Processing personal data without the consent of the data subject for the development and use of language resources

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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: The Association for Computational Linguistics, p. 178-187 10 p.

Language and Dialect Identification of Cuneiform Texts

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

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

FinnTransFrame: translating frames in the FinnFrameNet project

Lindén, K., Haltia, H., Laine, A., Luukkonen, J., Piitulainen, J. & Väisänen, N., 2019, In : *Language Resources and Evaluation*. 53, 1, p. 141-171 31 p.

Improving OCR of historical newspapers and journals published in Finland

Drobac, S., Kauppinen, P. & Linden, K., 2019, *Proceedings of the 3rd International Conference on Digital Access to Textual Cultural Heritage*. New York: ACM, p. 97-102 6 p.

Optical Font Family Recognition using a Neural Network

Drobac, S. & Lindén, K., 2019, *Proceedings of the Research Data And Humanities (Rdhum) 2019 Conference: Data, Methods And Tools*. Jantunen, J. H., Brunni, S., Kunnas, N., Palviainen, S. & Västi, K. (eds.). Oulu: Studia Humaniora Ouluensia, p. 115-123 9 p. (Studia humaniora ouluensia; no. 17).

Wanca in Korp: Text corpora for underresourced Uralic languages

Jauhiainen, H., Jauhiainen, T. & Linden, K., 2019, *Proceedings of the Research data and humanities (RDHUM) 2019 conference : data, methods and tools*. Jantunen, J. H., Brunni, S., Kunnas, N., Palviainen, S. & Västi, K. (eds.). Oulu: University of Oulu, p. 21-40 20 p. (Studia Humaniora Ouluensia; no. 17).

2018

Vad får AI för bild av mänskligheten?

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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, In : *International Journal of Technology Management & Sustainable Development*. 17, 3, p. 227-251 25 p.

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. (eds.). Leiden: Brill, p. 224-256 33 p. (Digital Biblical Studies; no. 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. (eds.). Santa Fe: The Association for Computational Linguistics, p. 137-144 8 p.

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. (eds.). Santa Fe: The Association for Computational Linguistics, p. 254-262 9 p.

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. (eds.). Santa Fe: The Association for Computational Linguistics, p. 66-75 10 p.

The Dagstuhl Perspectives Workshop on Performance Modeling and Prediction

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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 May 2018, *Selected papers from the CLARIN Annual Conference 2017, Budapest, 18–20 September 2017*. Piasecki, M. (ed.). Linköping: Linköping University Electronic Press, Vol. 147. p. 102-111 10 p. 009. (Linköping Electronic Conference Proceedings; no. 147).

Tieteen kansallinen termipankki (TTP) ja tiedonlouhinnan apuneuvot

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

Rethinking Summarization and Storytelling for Modern Social Multimedia

Rudinac, S., Chua, T-S., Diaz-Ferreyra, 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. (eds.). Cham: Springer International Publishing AG, Vol. 1. p. 632-644 13 p. (LNCS; no. 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. & 1 others, Zobel, J., 2018, In : *Dagstuhl manifestos*. 7, 1, p. 96-139 44 p.

Keeleressursside loomise ja kasutamise seaduvaid isikuandmete kaitse küsimusi

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Rethinking Summarization and Storytelling for Modern Social Multimedia

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2017

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Evaluating HeLI with non-linear mappings

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Evaluation of language identification methods using 285 languages

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2016

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In-Document Adaptation for a Human Guided Automatic Transcription Service

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

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

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2015

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

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

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The Finno-Ugric Languages and the Internet project

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Language Set Identification in Noisy Synthetic Multilingual Documents

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2014

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2006

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2005

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1997

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1987

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Projects

1. **FIN-CLARIN - Kielipankki**
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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., Hulden, M., Silfverberg, M., Pirinen, T., Axelson, E., Hardwick, S., Niemi, J. & Hurskainen, A.
01/01/2005 → ...
4. **Lahjoita puhetta -kampanjan suunnittelu ja toteutus**
Jauhiainen, T., Lennes, M. & Linden, K.
01/11/2019 → ...
5. **ANEE: ANEE Team 1: Digital Humanities Approaches**
Svärd, S., Linden, K., Bach, J., Jauhiainen, T., Jauhiainen, H., Sahala, A., Konstantopoulos, G., Fink, S., Zaia, S., Luukko, M. I., Bennett, E. R., Alstola, T., Vanderstraeten, E., Autere, K., Giessler, J. & Debourse, C. H. I.
01/01/2018 → 31/12/2025

6. **ANEE: Centre of Excellence in Ancient Near Eastern Empires**
Silverman, J. M., Svärd, S., Lahelma, A., Nikki, N., Töyräänvuori, J., Jokiranta, J., Laine, L., Kletter, R., Bonnie, R., Thomas, S., Holmqvist-Sipilä, E., Kouki, P., Wasmuth, M., Wallis, C., Lorenzon, M., Jauhiainen, H., Jauhiainen, T., Alstola, T., Bach, J., Fink, S., Konstantopoulos, G., Zaia, S., Sahala, A., Miettunen, P. H., Avneri Meir, R., Aissaoui, A. I., Arpe, O. P., Luukko, M. I., Kovanen, H., Linden, K., Bennett, E. R., Saari, S., Vanderstraeten, E., Autere, K., Debourse, C. H. I., Kailamäki, U., Kautonen, S. K. & Spunaugle, A.
01/01/2018 → 31/12/2025
7. **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
8. **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., Matthesen, M. & Aalto, T.
01/01/2017 → 31/12/2019
9. **Finno-Ugric Languages and the Internet**
Linden, K., Jauhiainen, H. & Jauhiainen, T.
01/01/2013 → 31/12/2018
10. **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
11. **FINNCLARIN CONTENT**
Linden, K. & Koskenniemi, K.
01/01/2011 → 31/12/2015
12. **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
13. **CLARA - Common Language Resources and their Applications**
Koskenniemi, K. & Linden, K.
Unknown funder
01/12/2009 → 31/03/2014
14. **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
15. **FIN-CLARIN-BUILD - CLARINin vahvistaminen Suomessa FIN-CLARIN-BUILD - etablering av CLARIN i Finland**
Linden, K.
14/12/2012 → 31/12/2013
16. **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
17. **FIN-CLARIN: Finnish Language Resource Infrastructure**
Koskenniemi, K. & Linden, K.
01/01/2007 → 31/12/2012
18. **Common Language Resources and Technology Infrastructure (CLARIN)**
Koskenniemi, K., Linden, K., Oksanen, V. & Yangarber, R.
01/01/2008 → 30/06/2011

Activities

Post-doctoral mentor / Måns Huldén

Krister Linden (Post doc mentor)

12 Jan 2009 → 11 Dec 2011

Activity: Examination types › Post doctoral mentor

Examination of doctoral dissertation / Grégoire Détérez

Krister Linden (Opponent) & Bo Krister Johan Linden (Pre-examiner)

2016

Activity: Examination types › Opponent of doctoral dissertation

Exmination of doctoral dissertation / Sami Virpioja

Krister Linden (Opponent) & Bo Krister Johan Linden (Pre-examiner)

2012

Activity: Examination types › Opponent of doctoral dissertation

Examination of doctoral dissertation / Tuomo Kakkonen

Krister Linden (Pre-examiner)

1 Sep 2007 → 15 Sep 2007

Activity: Examination types › Pre-examiner of doctoral thesis

Examination of doctoral dissertation / Vesa Siivola

Krister Linden (Pre-examiner)

15 May 2007 → 31 May 2007

Activity: Examination types › Pre-examiner of doctoral thesis

Supervisor of doctoral thesis in Language Technology / Emily Öhman

Krister Linden (Co-supervisor)

1 Aug 2016 → ...

Activity: Examination types › Supervisor or co-supervisor of doctoral thesis

Supervisor of doctoral thesis in Language Technology / Miikka Silfverberg

Bo Krister Johan Linden (Supervisor) & Anssi Yli-Jyrä (Supervisor)

1 Jan 2010 → 22 Oct 2016

Activity: Examination types › Supervisor or co-supervisor of doctoral thesis

Supervisor of doctoral thesis in Language Technology / Senka Drobac

Krister Linden (Supervisor)

1 Jan 2012 → ...

Activity: Examination types › Supervisor or co-supervisor of doctoral thesis

Supervisor of doctoral thesis in Language Technology / Tommi Jauhiainen

Krister Linden (Supervisor)

1 Jun 2011 → ...

Activity: Examination types › Supervisor or co-supervisor of doctoral thesis

Supervisor of doctoral thesis in Language Technology / Tommi Pirinen

Krister Linden (Supervisor)

1 Jan 2010 → 2 Dec 2014

Activity: Examination types › Supervisor or co-supervisor of doctoral thesis

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

Krister Linden (Expert member)

1 Apr 2008 → 31 Mar 2009

Activity: Membership types › Membership or other role in public Finnish or international organization

Nordiska Ministerrådet (External organisation)

Krister Linden (Expert member)

1 Jan 2006 → 31 Dec 2006

Activity: Membership types › Membership or other role in public Finnish or international organization

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

Krister Linden (Board member)

1 Jan 2010 → 31 Dec 2011

Activity: Membership types › Membership or other role in national/international committee, council, board

ESF - European Science Foundation (External organisation)

Krister Linden (Expert member)

24 May 2011 → 23 May 2015

Activity: Membership types › Membership or other role in national/international committee, council, board

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

Krister Linden (Board member)

2012 → 2013

Activity: Membership types › Membership or other role in national/international committee, council, board

KIT Language Technology Graduate School of Finland (External organisation)

Krister Linden (Expert member)

1 Jan 2001 → 31 Dec 2005

Activity: Membership types › Membership or other role in national/international committee, council, board

Langnet (External organisation)

Krister Linden (Board member)

1 Jan 2012 → 31 Dec 2015

Activity: Membership types › Membership or other role in national/international committee, council, board

Lantern - Language Technology Research Network (External organisation)

Krister Linden (Secretary)

1 Jan 2005 → 31 Dec 2007

Activity: Membership types › Membership or other role in national/international committee, council, board

META-TRUST (External organisation)

Krister Linden (Board member)

12 Sep 2012 → 31 Jan 2017

Activity: Membership types › Membership or other role in national/international committee, council, board

NYKYKIELET 2010-2017 (Organisational unit)

Krister Linden (Board member)

1 Jan 2014 → 31 Dec 2017

Activity: Membership types › Membership or other role in national/international committee, council, board

Northern European Association for Language Technology (External organisation)

Krister Linden (Chair)

1 Jan 2010 → 31 Dec 2013

Activity: Membership types › Membership or other role in national/international committee, council, board

Northern European Association for Language Technology (External organisation)

Krister Linden (Expert member)

1 Jan 2014 → 31 Dec 2017

Activity: Membership types › Membership or other role in national/international committee, council, board

Global Wordnet Association (External organisation)

Krister Linden (Member)

2012 → ...

Activity: Membership types › Membership or other role in research network

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

Krister Linden (Member)

2009 → ...

Activity: Membership types › Membership or other role in research network

Department of Modern Languages (Organisational unit)

Krister Linden (Assessment)

2014

Activity: Membership types › Assessment of candidates for academic posts