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Language Technology
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Qualifications

Computational Linguistics, PhD, Uppsala University
2000 → 2003

Computer Science, M.Sc., Otto Von Guericke University, Magdeburg
1991 → 1997

Principal Investigator

Period : 27.01.2016 - 31.12.2017 in NYKYKIELET 2010-2017

Principal Investigator

Period : 17.02.2018 - * in Department of Digital Humanities

Employment

Professor

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

Language Technology

University of Helsinki
University of Helsinki, Finland
1 Aug 2015 → present

Professor

NYKYKIELET 2010-2017
University of Helsinki
Finland
1 Aug 2015 → 31 Dec 2017

Projects

FoTran: Found in Translation - Natural Language Processing with Cross-Lingual Grounding

Tiedemann, J.
European Research Council (ERC)
01/09/2018 → 31/08/2023

MeMAD: Methods for Managing Audiovisual Data: Combining Automatic Efficiency with Human Accuracy

Hirvonen, M., Tiedemann, J. & Tiittula, L.
European Commission / Horizon 2020
01/01/2018 → 31/12/2020

NLUxLG: NLU with Cross-Lingual Grounding

Tiedemann, J. & Talman, A.
SUOMEN AKATEMIA
01/01/2018 → 31/12/2019

Development of Digital Teaching project of the BA Programme in Languages

Lennes, M., Flanagan, J., Hiltunen, T., Creutz, M., Aunio, L., Buchart, M., Gruzdeva, E., Jakubek, I., Keinänen, N., Kim, J., Kittilä, S., Kopotev, M., Kraenker, S., Länsisalmi, R., Nieuweboer, R., Peterson, E., Tiedemann, J., Tuori, R., Viitamäki, M. & Lindstedt, J.

01/05/2017 → 31/12/2018

NLPL: Nordic Language Processing Laboratory

Tiedemann, J. & Scherrer, Y.

01/01/2017 → 31/12/2019

CrossNLP: Cross-Linguistic and Multilingual Natural Language Processing with the Focus on Low-Resource Languages and Language Variants

Tiedemann, J., Östling, R. & Scherrer, Y.

01/01/2016 → 31/12/2018

Erillisrahoitus Helsingin ja Tukholman yliopistojen yhteishanke

Lehti-Eklund, H., Lindström, J., Miestamo, M., Grünthal, R., Palander-Collin, M., Kalliokoski, J., Östman, J., Ajanki, R., Holopainen, S., Balode, L., Lenk, H. E. H., Kurhila, S., Kotilainen, L., Lindholm, C., Wahlström, M., Solin, A., Fremer, M., Tiittula, L., Hamari, A., Kittilä, S., Huhtamäki, M., Kim, J., Kopotev, M., Peterson, E., Protassova, E., Savijärvi, M. & Tiedemann, J.

Unknown funder

01/01/2015 → 31/12/2017

eSENCE: Efficient Algorithms for Natural Language Processing Beyond Sentence Boundaries

Nivre, J., Tiedemann, J. & Stymne, S.

01/09/2012 → 31/08/2014

DiscoMT: Discourse-Oriented Statistical Machine Translation

Tiedemann, J., Hardmeier, C., Loáiciga, S. & Scherrer, Y.

01/01/2012 → 31/12/2017

LetsMT!: LetsMT! A Platform for Online Sharing of Training Data and Building User Tailored Machine Translation

Tiedemann, J., Weinitz, P., Saers, M., Zumpe, M. & Schleussner, S.

01/03/2010 → 31/08/2012

OPUS: The Open Parallel Corpus

Tiedemann, J.

01/06/2004 → ...

Datasets

DiscoMT 2015 Shared Task on Pronoun Translation

Tiedemann, J. (Creator), LINDAT/CLARIN, 31 Jan 2016

DOI: <https://doi.org/http://hdl.handle.net/11372/LRT-1611>, <http://hdl.handle.net/11372/LRT-1611>

LetsMT repository

Tiedemann, J. (Creator), Zenodo, 22 Jan 2018

DOI: <https://doi.org/10.5281/zenodo.1157836>

Lingua-Align

Tiedemann, J. (Creator), Zenodo, 22 Jan 2018

DOI: <https://doi.org/10.5281/zenodo.1157176>, <https://github.com/Helsinki-NLP/Lingua-Align/tree/v0.1>

OPUS

Tiedemann, J. (Creator), University of Helsinki, 2017
<http://opus.nlpl.eu>

Shared Task in Cross-Lingual Parsing

Tiedemann, J. (Data Manager), Atlassian, 2017
<https://bitbucket.org/hy-crossNLP/wardial2017>

Uplug

Tiedemann, J. (Creator), Zenodo, 22 Jan 2018
DOI: <https://doi.org/10.5281/zenodo.1157180>, <https://github.com/Helsinki-NLP/Uplug/tree/v0.3.9>

WMT16 test set Finnish-English

Tiedemann, J. (Creator), Zenodo, 21 Jan 2018
DOI: <https://doi.org/10.5281/zenodo.1156325>, <https://github.com/Helsinki-NLP/WMT16-test-enfi/tree/v1.0>

WMT17 test set Finnish-English

Tiedemann, J. (Creator), Zenodo, 21 Jan 2018
DOI: <https://doi.org/10.5281/zenodo.1156326>, <https://github.com/Helsinki-NLP/WMT16-test-enfi/tree/v1.0>

Publications

The MeMAD Submission to the WMT18 Multimodal Translation Task

Stig-Arne, G., Huet, B., Kurimo, M., Laaksonen, J., Merialdo, B., Pham, P., Sjöberg, M., Sulubacak, U., Tiedemann, J., Troncy, R. & Vázquez Carrillo, J. R., 1 Nov 2018, *Proceedings of the 3rd Conference on Machine Translation (WMT 2018): Shared Task Papers*. Bojar, O., Chatterjee, R., Federmann, C., Fishel, M., Graham, Y., Haddow, B., Huck, M., Yepes, A. J., Koehn, P., Monz, C., Negri, M., Névél, A., Neves, M., Post, M., Specia, L., Turchi, M. & Verspoor, K. (eds.). Association for Computational Linguistics, p. 603 611 p.

Creating a Dataset for Multilingual Fine-grained Emotion-detection Using Gamification-based Annotation

Öhman, E. S., Tiedemann, J., Honkela, T. U. & Kajava, K., 31 Oct 2018, *Proceedings of the 9th Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis*. Association for Computational Linguistics, p. 24-30

The MeMAD Submission to the IWSLT 2018 Speech Translation Task

Sulubacak, U., Tiedemann, J., Rouhe, A., Stig-Arne, G. & Kurimo, M., 30 Oct 2018, *Proceedings of the 15th International Workshop on Spoken Language Translation (IWSLT 2018)*. Turchi, M., Niehues, J. & Frederico, M. (eds.). p. 89 94 p.

An Analysis of Encoder Representations in Transformer-Based Machine Translation

Raganato, A. & Tiedemann, J., 2018, *Proceedings of the 2018 EMNLP Workshop BlackboxNLP: Analyzing and Interpreting Neural Networks for NLP*. Association for Computational Linguistics, p. 287-297 11 p.

Emerging Language Spaces Learned From Massively Multilingual Corpora

Tiedemann, J., 2018, (Accepted/In press) *In Proceedings of the 3rd Conference on Digital Humanities in the Nordic Countries*. Helsinki, Finland

Language Identification and Morphosyntactic Tagging: The Second VarDial Evaluation Campaign

Zampieri, M., Malmasi, S., Nakov, P., Ali, A., Shon, S., Glass, J., Scherrer, Y., Samardžić, T., Ljubešić, N., Tiedemann, J., van der Lee, C., Grondelaers, S., Oostdijk, N., Speelman, D., van den Bosch, A., Kumar, R., Lahiri, B. & Jain, M., 2018, *Proceedings of the Fifth Workshop on NLP for Similar Languages, Varieties and Dialects*. Zampieri, M., Nakov, P., Ljubešić, N., Tiedemann, J., Malmasi, S. & Ali, A. (eds.). Santa Fe: Association for Computational Linguistics, p. 1-17 17 p.

Normalizing early English letters to Present-day English spelling

Hämäläinen, M., Säily, T., Rueter, J., Tiedemann, J. & Mäkelä, E., 2018, *Proceedings of the 2nd Joint SIGHUM Workshop on Computational Linguistics for Cultural Heritage, Social Sciences, Humanities and Literature*. Alex, B., Degaetano-Ortlieb, S., Feldman, A., Kazantseva, A., Reiter, N. & Szpakowicz, S. (eds.). Stroudsburg, PA: Association for Computational Linguistics, p. 87-96 10 p. (ACL Anthology; no. W18-45).

OpenSubtitles2018: Statistical Rescoring of Sentence Alignments in Large, Noisy Parallel Corpora

Lison, P. & Tiedemann, J., 2018, (Accepted/In press) *Proceedings of the 11th International Conference on Language Resources and Evaluation (LREC-2018)*. European Language Resources Association (ELRA)

The University of Helsinki submissions to the WMT18 news task

Raganato, A., Scherrer, Y., Nieminen, T., Hurskainen, A. & Tiedemann, J., 2018, *Proceedings of the Third Conference on Machine Translation: Shared Task Papers*. Association for Computational Linguistics, p. 488-495 8 p.

Character-based Joint Segmentation and POS Tagging for Chinese using Bidirectional RNN-CRF

Shao, Y., Hardmeier, C., Tiedemann, J. & Nivre, J., 1 Nov 2017, *The Eighth International Joint Conference on Natural Language Processing: Proceedings of the Conference, Vol. 1 (Long Papers)*. Taipei: Asian Federation of Natural Language Processing, p. 173-183 11 p.

Proceedings of the 21st Nordic Conference on Computational Linguistics (NoDaLiDa)

Tiedemann, J. (ed.), 1 May 2017, Gothenburg: Linköping University Electronic Press. 337 p. (Linköping Electronic Conference Proceedings; no. 131)

Continuous multilinguality with language vectors

Östling, R. & Tiedemann, J., 1 Apr 2017, *15th Conference of the European Chapter of the Association for Computational Linguistics: Proceedings of Conference, volume 2: Short Papers*. Stroudsburg: Association for Computational Linguistics, p. 644-649 6 p.

Cross-Lingual Dependency Parsing for Closely Related Languages – Helsinki's Submission to VarDial 2017

Tiedemann, J., 1 Apr 2017, *Fourth Workshop on NLP for Similar Languages, Varieties and Dialects (VarDial'2017): Proceedings of the Workshop*. Stroudsburg: Association for Computational Linguistics, p. 131-136 6 p.

Findings of the VarDial Evaluation Campaign 2017

Zampieri, M., Malmasi, S., Ljubešić, N., Nakov, P., Ali, A., Tiedemann, J., Scherrer, Y. & Aepli, N., 1 Apr 2017, *Proceedings of the Fourth Workshop on NLP for Similar Languages, Varieties and Dialects*. Stroudsburg: Association for Computational Linguistics, p. 1-15 15 p.

Bootstrapping a Dependency Parser for Maltese - A Real-World Test Case

Tiedemann, J. & van der Plas, L., 2017, *From Semantics to Dialectometry: Festschrift in honor of John Nerbonne*. Wieling, M., Kroon, M., Van Noord, G. & Bouma, G. (eds.). Milton Keynes: College Publications, p. 355-365 11 p. (Tributes; no. 32).

Findings of the 2017 DiscoMT Shared Task on Cross-lingual Pronoun Prediction

Loáiciga, S., Stymne, S., Nakov, P., Hardmeier, C., Tiedemann, J., Cettolo, M. & Versley, Y., 2017, *Discourse in Machine Translation (DiscoMT 2017): Proceedings of the Workshop*. Stroudsburg: Association for Computational Linguistics, p. 1-16 16 p.

Large aligned treebanks for syntax-based machine translation

Kotzé, G., Vandeghinste, V., Martens, S. & Tiedemann, J., 2017, In : *Language Resources and Evaluation*. 51, 2, p. 249-282 34 p.

Neural Machine Translation with Extended Context

Tiedemann, J. & Scherrer, Y., 2017, *Proceedings of the Third Workshop on Discourse in Machine Translation*. Stroudsburg: Association for Computational Linguistics, p. 82-92 11 p.

Rule-based Machine Translation from English to Finnish

Hurskainen, A. & Tiedemann, J., 2017, *Proceedings of the Second Conference on Machine Translation (WMT2017)*. Copenhagen, Denmark: Association for Computational Linguistics, p. 323-329 7 p.

The CLIN27 Shared Task: Translating Historical Text to Contemporary Language for Improving Automatic Linguistic Annotation

Tjong Kim Sang, E., Bollmann, M., Boschker, R., Casacuberta, F., Dietz, F., Dipper, S., Domingo, M., van der Goot, R., van Koppen, M., Ljubešić, N., Östling, R., Petran, F., Pettersson, E., Scherrer, Y., Schraagen, M., Sevens, L., Tiedemann, J., Vanallemeersch, T. & Zervanou, K., 2017, In : Computational Linguistics in the Netherlands. 7, p. 53-64 12 p.

The Helsinki Neural Machine Translation System

Östling, R., Scherrer, Y., Tiedemann, J. & Nieminen, T., 2017, *Proceedings of the Second Conference on Machine Translation (WMT2017)*. Stroudsburg: Association for Computational Linguistics, p. 338-347 10 p.

Discriminating between Similar Languages and Arabic Dialect Identification: A Report on the Third DSL Shared Task

Malmasi, S., Zampieri, M., Ljubešić, N., Nakov, P., Ali, A. & Tiedemann, J., 1 Dec 2016, *Third Workshop on NLP for Similar Languages, Varieties and Dialects: Proceedings of the Workshop*. The COLING 2016 Organizing Committee , p. 1-14 14 p.

Tagging Ingush - Language Technology For Low-Resource Languages Using Resources From Linguistic Field Work

Tiedemann, J., Nichols, J. & Sprouse, R., 1 Dec 2016, *Language Technology Resources and Tools for Digital Humanities (LT4DH): Proceedings of the Workshop*. Osaka, p. 148-155 8 p.

The Challenges of Multi-dimensional Sentiment Analysis Across Languages

Öhman, E., Honkela, T. & Tiedemann, J., 1 Dec 2016, *Workshop on Computational Modeling of People's Opinions, Personality, and Emotions in Social Media (PEOPLES): Proceedings of the Workshop*. Osaka, Japan: The COLING 2016 Organizing Committee , p. 138-142 5 p.

Efficient word alignment with Markov Chain Monte Carlo

Östling, R. & Tiedemann, J., 1 Oct 2016, In : The Prague Bulletin of Mathematical Linguistics. 106, p. 125-146 22 p.

Detecting hospital-acquired infections: A document classification approach using support vector machines and gradient tree boosting

Ehrentraut, C., Ekholm, M., Tanushi, H., Tiedemann, J. & Dalianis, H., 4 Aug 2016, In : Health informatics journal.. p. 1-19 19 p.

A Linear Baseline Classifier for Cross-Lingual Pronoun Prediction

Tiedemann, J., 1 Aug 2016, *The 54th Annual Meeting of the Association for Computational Linguistics: Proceedings of the First Conference on Machine Translation (WMT)*. Stroudsburg: The Association for Computational Linguistics, p. 616-619 4 p.

Findings of the 2016 WMT Shared Task on Cross-lingual Pronoun Prediction

Guillou, L., Hardmeier, C., Nakov, P., Stymne, S., Tiedemann, J., Versley, Y., Cettolo, M., Webber, B. & Popescu-Belis, A., 1 Aug 2016, *The 54th Annual Meeting of the Association for Computational Linguistics: Proceedings of the First Conference on Machine Translation (WMT)*. Stroudsburg: The Association for Computational Linguistics, p. 525-542 18 p.

Phrase-Based SMT for Finnish with More Data, Better Models and Alternative Alignment and Translation Tools

Tiedemann, J., Cap, F., Kanerva, J., Ginter, F., Stymne, S., Östling, R. & Weller-Di Marco, M., 1 Aug 2016, *The 54th Annual Meeting of the Association for Computational Linguistics: Proceedings of the First Conference on Machine Translation (WMT)*. Stroudsburg: The Association for Computational Linguistics, p. 391-398 8 p.

Synthetic Treebanking for Cross-Lingual Dependency Parsing

Tiedemann, J. & Agi, Z., Jan 2016, In : Journal of Artificial Intelligence Research. 55, p. 209-248 40 p.

Climbing Mont BLEU: The Strange World of Reachable High-BLEU Translations

Smith, A., Hardmeier, C. & Tiedemann, J., 2016, In : Baltic Journal of Modern Computing. 4, 2, p. 269-281 13 p.

Finding Alternative Translations in a Large Corpus of Movie Subtitles

Tiedemann, J., 2016, *Proceedings of the 10th International Conference on Language Resources and Evaluation (LREC-2016)*. Calzolari, N., Choukri, K., Declerck, T., Goggi, S., Grobelnik, M., Maegaard, B., Mariani, J., Mazo, H., Moreno, A., Odijk, J. & Piperidis, S. (eds.). p. 3518-3522 5 p.

OPUS – Parallel Corpora for Everyone

Tiedemann, J., 2016, In : *Baltic Journal of Modern Computing*. p. 384 1 p.

OpenSubtitles2015: Extracting Large Parallel Corpora from Movie and TV Subtitles

Lison, P. & Tiedemann, J., 2016, *Proceedings of the 10th International Conference on Language Resources and Evaluation (LREC-2016)*. Calzolari, N., Choukri, K., Declerck, T., Goggi, S., Grobelnik, M., Maegaard, B., Mariani, J., Mazo, H., Moreno, A., Odijk, J. & Piperidis, S. (eds.).

Baseline Models for Pronoun Prediction and Pronoun-Aware Translation

Tiedemann, J., 1 Sep 2015, *Proceedings of the Second Workshop on Discourse in Machine Translation (DiscoMT)*. The Association for Computational Linguistics, p. 108-114 7 p.

Morphological Segmentation and OPUS for Finnish-English Machine Translation

Tiedemann, J., Ginter, F. & Kanerva, J., 1 Sep 2015, *Proceedings of the Tenth Workshop on Statistical Machine Translation*. The Association for Computational Linguistics, p. 177-183 7 p.

Part-of-Speech Driven Cross-Lingual Pronoun Prediction with Feed-Forward Neural Networks

Callin, J., Hardmeier, C. & Tiedemann, J., 1 Sep 2015, *Proceedings of the Second Workshop on Discourse in Machine Translation (DiscoMT)*. The Association for Computational Linguistics, p. 59-64 6 p.

Pronoun-Focused MT and Cross-Lingual Pronoun Prediction: Findings of the 2015 DiscoMT Shared Task on Pronoun Translation

Hardmeier, C., Nakov, P., Stymne, S., Tiedemann, J., Versley, Y. & Cettolo, M., 1 Sep 2015, *Proceedings of the Second Workshop on Discourse in Machine Translation (DiscoMT)*. The Association for Computational Linguistics, p. 1-16 16 p.

Cross-Lingual Dependency Parsing with Universal Dependencies and Predicted PoS Labels

Tiedemann, J., 1 Aug 2015, *Proceedings of the Third International Conference on Dependency Linguistics (Depling 2015)*. p. 340-349 10 p.

Boosting English-Chinese Machine Transliteration via High Quality Alignment and Multilingual Resources

Shao, Y., Tiedemann, J. & Nivre, J., 1 Jul 2015, *Proceedings of the Fifth Named Entity Workshop, joint with 53rd ACL and the 7th IJCNLP*. p. 56-60 5 p.

Improving the Cross-Lingual Projection of Syntactic Dependencies

Tiedemann, J., 1 May 2015, *Proceedings of the 20th Nordic Conference of Computational Linguistics (NODALIDA 2015)*. p. 191-199 9 p.

Cross-lingual Dependency Parsing of Related Languages with Rich Morphosyntactic Tagsets

Agić, Ž., Tiedemann, J., Merkler, D., Krek, S., Dobrovoljc, K. & Može, S., 1 Oct 2014, *Language Technology for Closely Related Languages and Language Variants (LT4CloseLang)*. The Association for Computational Linguistics, p. 13-24 12 p.

Word's Vector Representations meet Machine Translation

Martinez Garcia, E., Tiedemann, J., España-Bonet, C. & Màrquez, L., 1 Oct 2014, *Proceedings of SSST-8, Eighth Workshop on Syntax, Semantics and Structure in Statistical Translation*. p. 132-134 3 p.

A Report on the DSL Shared Task 2014

Zampieri, M., Tan, L., Ljubešić, N. & Tiedemann, J., 1 Aug 2014, *Proceedings of the First Workshop on Applying NLP Tools to Similar Languages, Varieties and Dialects*. The Association for Computational Linguistics, p. 58-67 10 p.

Rediscovering Annotation Projection for Cross-Lingual Parser Induction

Tiedemann, J., 1 Aug 2014, *Proceedings of COLING 2014, the 25th International Conference on Computational Linguistics: Technical Papers*.

Billions of Parallel Words for Free: Building and Using the EU Bookshop Corpus

Skadiņš, R., Tiedemann, J., Rozis, R. & Dekšne, D., 1 May 2014, *Proceedings of the 9th International Conference on Language Resources and Evaluation (LREC-2014)*. p. 1850-1855 6 p.

Merging Comparable Data Sources for the Discrimination of Similar Languages: The DSL Corpus Collection

Zampieri, M., Ljubešić, N., Tiedemann, J. & Tan, L., 1 May 2014, *Proceedings of the 7th Workshop on Building and Using Comparable Corpora (BUCC)*. p. 6-10 5 p.

ParCor 1.0: A Parallel Pronoun-Coreference Corpus to Support Statistical MT

Guillou, L., Hardmeier, C., Smith, A., Tiedemann, J. & Webber, B., 1 May 2014, *Proceedings of the Ninth International Conference on Language Resources and Evaluation (LREC-2014)*. p. 3191-3198 8 p.

Anaphora Models and Reordering for Phrase-Based SMT

Hardmeier, C., Stymne, S., Smith, A., Tiedemann, J. & Nivre, J., 2014, *Proceedings of the Ninth Workshop on Statistical Machine Translation*. The Association for Computational Linguistics, p. 122-129 8 p.

Estimating Word Alignment Quality for SMT Reordering Tasks

Stymne, S., Tiedemann, J. & Nivre, J., 2014, *Proceedings of the Ninth Workshop on Statistical Machine Translation*. The Association for Computational Linguistics, p. 275-286 12 p.

Improved Text Extraction from PDF Documents for Large-Scale Natural Language Processing

Tiedemann, J., 2014, *Computational Linguistics and Intelligent Text Processing*. Gelbukh, A. (ed.). Berlin: Springer, Vol. 1. p. 102-112 11 p. (Lecture Notes in Computer Science LNCS 8403).

Treebank Translation for Cross-Lingual Parser Induction

Tiedemann, J., Agić, Ž. & Nivre, J., 2014, *Proceedings of the Eighteenth Conference on Computational Language Learning*. The Association for Computational Linguistics, p. 130-140 11 p.

Tools for lexicographic use of parallel and comparable corpora

Tiedemann, J., 1 Dec 2013, *An International Encyclopedia of Lexicography -- Supplementary Volume*. Gouws, R. H., Heid, U., Schweickard, W. & Wiegand, H. E. (eds.). De Gruyter Mouton, Vol. 4. p. 1433-1444 12 p. (HSK - Dictionaries).

Bitexts as Semantic Mirrors

Tiedemann, J., van der Plas, L. & Villada Moirón, B., 1 Oct 2013, *Unknown host publication*.

Latent Anaphora Resolution for Cross-Lingual Pronoun Prediction

Hardmeier, C., Tiedemann, J. & Nivre, J., 1 Oct 2013, *Unknown host publication*.

Docent: A Document-Level Decoder for Phrase-Based Statistical Machine Translation

Hardmeier, C., Stymne, S., Tiedemann, J. & Nivre, J., 1 Aug 2013, *Unknown host publication*. p. 193-198 6 p.

Feature Weight Optimization for Discourse-Level SMT

Stymne, S., Hardmeier, C., Tiedemann, J. & Nivre, J., 1 Aug 2013, *Unknown host publication*. p. 60-69 10 p.

Proceedings of the Workshop on Discourse in Machine Translation

Webber, B. (ed.), Popescu-Belis, A. (ed.), Markert, K. (ed.) & Tiedemann, J. (ed.), 1 Aug 2013, Sofia, Bulgaria: Association for Computational Linguistics.

Tunable Distortion Limits and Corpus Cleaning for SMT

Stymne, S., Hardmeier, C., Tiedemann, J. & Nivre, J., 1 Aug 2013, *Unknown host publication*. p. 225-231 7 p.

An SMT approach to automatic annotation of historical text

Petterson, E., Megyesi, B. B. & Tiedemann, J., 1 May 2013, *Unknown host publication*.

Statistical Machine Translation with Readability Constraints

Stymne, S., Tiedemann, J., Hardmeier, C. & Nivre, J., 1 May 2013, *Unknown host publication*. p. 375-386 12 p.

Analyzing the Use of Character-Level Translation with Sparse and Noisy Datasets

Tiedemann, J. & Nakov, P., 2013, *Unknown host publication*. p. 676-684 9 p.

Book review of Markus Dickinson, Chris Brew and Detmar Meurers: Language and Computers

Tiedemann, J., 2013, In : *Machine Translation*. 27, p. 309-312 4 p.

Efficient Discrimination Between Closely Related Languages

Tiedemann, J. & Ljubesic, N., 1 Dec 2012, *Unknown host publication*. p. 2619-2634 16 p.

Combining Word-Level and Character-Level Models for Machine Translation Between Closely-Related Languages

Nakov, P. & Tiedemann, J., 1 Jul 2012, *Unknown host publication*. p. 301-305 5 p.

Document-Wide Decoding for Phrase-Based Statistical Machine Translation

Hardmeier, C., Nivre, J. & Tiedemann, J., 1 Jul 2012, *Unknown host publication*. p. 1179-1190 12 p.

LetsMT!: Cloud-Based Platform for Do-It-Yourself Machine Translation

Vasijevs, A., Skadis, R. & Tiedemann, J., 1 Jul 2012, *Unknown host publication*. p. 43-48 6 p.

Tree Kernels for Machine Translation Quality Estimation

Hardmeier, C., Nivre, J. & Tiedemann, J., 1 Jun 2012, *Unknown host publication*. p. 109-113 5 p.

A Distributed Resource Repository for Cloud-Based Machine Translation

Tiedemann, J., Hansen, D. H., Offersgaard, L., Olsen, S. & Zumpe, M., 1 May 2012, *Unknown host publication*. Calzolari, N., Choukri, K., Declerck, T., Dogan, M. U., Maegaard, B., Mariani, J., Odijk, J. & Piperidis, S. (eds.). p. 2207-2213 7 p.

Large aligned treebanks for syntax-based machine translation

Kotzé, G., Vandeghinste, V., Martens, S. & Tiedemann, J., 1 May 2012, *Unknown host publication*. Calzolari, N., Choukri, K., Declerck, T., Dogan, M. U., Maegaard, B., Mariani, J., Odijk, J. & Piperidis, S. (eds.). p. 467-473 7 p.

Parallel Data, Tools and Interfaces in OPUS

Tiedemann, J., 1 May 2012, *Unknown host publication*. Calzolari, N., Choukri, K., Declerck, T., Dogan, M. U., Maegaard, B., Mariani, J., Odijk, J. & Piperidis, S. (eds.). p. 2214-2218 5 p.

Character-Based Pivot Translations for Under-Resourced Languages and Domains

Tiedemann, J., 1 Apr 2012, *Unknown host publication*. p. 141-151 11 p.

Detection of Hospital Acquired Infections in Sparse and Noisy Swedish Patient Records

Ehrentraut, C., Tiedemann, J., Dalianis, H. & Tanushi, H., 2012, *Unknown host publication*.

Opening OPUS for User Contributions

Tiedemann, J., Zumpe, M. & Schleussner, S., 2012, *Unknown host publication*.

Parse and Corpus-based Machine Translation

Vandeghinste, V., Martens, S., Kotzé, G., Tiedemann, J., Bogaert, J. V. D., Smet, K. D., Eynde, F. V. & Noord, G. V., 2012, *Essential Speech and Language Technology for Dutch: resources, tools and applications*. Spyns, P. & Odijk, J. (eds.). Springer. (Theory and Applications of Natural Language Processing).

The Uppsala-FBK systems at WMT 2011

Hardmeier, C., Tiedemann, J., Saers, M., Federico, M. & Prashant, M., 1 Jul 2011, *Unknown host publication*. p. 372-378 7 p.

Automatic extraction of medical term variants from multilingual parallel translations

Plas, L. V. D., Tiedemann, J. & Fahmi, I., 2011, *Theory and Applications of Natural Language Processing*. 21 p. (Theory and Applications of Natural Language Processing).

Bitext Alignment

Tiedemann, J. & Hirst, G. (ed.), 2011, San Rafael, California (USA): Morgan & Claypool. (Synthesis Lectures on Human Language Technologies)

Synonym acquisition across domains and languages

Plas, L. V. D., Tiedemann, J. & Manguin, J-L., 2011, *Advances in Distributed Agent-based Retrieval Tools*. Berlin: Springer, (Studies in Computational Intelligence).

Finding Medical Term Variations using Parallel Corpora and Distributional Similarity

van der Plas, L. & Tiedemann, J., 1 Aug 2010, *Unknown host publication*. p. 28-37 10 p.

Context Adaptation in Statistical Machine Translation Using Models with Exponentially Decaying Cache

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