Rui Wang

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Experience

Researcher, Advanced Translation Technology Laboratory, NICT, Kyoto, Japan, 2016-now.

Ph.D. in Computer Science (summa cum laude), Shanghai Jiao Tong University, working with Bao-Liang Lu and Hai Zhao, Shanghai, China, 2012-2016.

—— Joint Ph.D., CNRS-University Lyon1, working with Sabine Ploux, Lyon, France, 2014.
—— Internship Research Fellow, NICT, working with Masao Utiyama, Isao Goto, Andrew Finch, and Eiichiro Sumita, Kyoto, Japan, 2013

Master in Computer Science, University of Chinese Academy of Sciences, Beijing & Urumqi, China, 2009-2012.

Bachelor in Computer Science, Harbin Institue of Technology, Harbin, China, 2005-2009.

Academic Services

Area co-chair of CCL-2018.

Organization co-chair of PACLIC-29 and YCCL-2012.

PC member/Reviewer of ACL, NAACL, IJCNLP, AAAI, and IWSLT et al.

Reviewer of ACM TALLIP, Computer Speech and Language, Language Resources and Evaluation, and Neural Processing Letters et al.

Collaborating and Supervising

Zhisong Zhang, Master candidate of Shanghai Jiao Tong University, co-working with Masao Utiyama, NICT, Sept.2017-Mar.2018.

Kehai Chen, Ph.D. candidate of Harbin Institue of Technology, co-working with Masao Utiyama, NICT, Apr.2017-Mar.2018.

Selected Publications

Journal Articles

Graph-based BilingualWord Embedding for Statistical Machine Translation.
Rui Wang, Hai Zhao*, Bao-Liang Lu, Sabine Ploux*, Masao Utiyama, and Eiichro Sumita.
ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP), accepted.

A Neural Approach to Source Dependency-Based Context Model for Statistical Machine Translation.
Kehai Chen, Tiejun Zhao, Muyun Yang, Lemao Liu*, Akihiro Tamura, **Rui Wang**, Masao Utiyama, and Eiichro Sumita.
IEEE/ACM Transactions on Audio, Speech, and Language Processing (TASLP), Volume 26, Issue 2, 2017.

Converting Continuous-Space Language Models into N-gram Language Models with Efficient Bilingual Pruning for Statistical Machine Translation.
Rui Wang, Masao Utiyama*, Isao Goto, Eiichro Sumita, Hai Zhao*, and Bao-Liang Lu.
ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP), Volume 15, Issue 3, 2016.

Bilingual Continuous-Space Language Model Growing for Statistical Machine Translation.
Rui Wang, Hai Zhao*, Bao-Liang Lu, Masao Utiyama, and Eiichro Sumita.
IEEE/ACM Transactions on Audio, Speech, and Language Processing (TASLP), Volume:23, Issue:7, 2015.

Conference Proceedings

Dynamic Sentence Sampling for Efficient Training of Neural Machine Translation.
Rui Wang, Masao Utiyama, and Eiichiro Sumita.
The 56th Annual Meeting of the Association for Computational Linguistics (ACL-2018), Melbourne, Australia.

Syntax-Directed Attention for Neural Machine Translation
Kehai Chen, **Rui Wang***, Masao Utiyama, Eiichiro Sumita, and Tiejun Zhao.
The Thirty-Second AAAI Conference on Artificial Intelligence (AAAI-2018), New Orleans, Lousiana, USA.

Context-Aware Smoothing for Neural Machine Translation.
Kehai Chen, **Rui Wang***, Masao Utiyama, Eiichiro Sumita, and Tiejun Zhao.
The 8th International Joint Conference on Natural Language Processing (IJCNLP-2017), Taipei.

Instance Weighting for Neural Machine Translation Domain Adaptation.
Rui Wang, Masao Utiyama, Lemao Liu, Kehai Chen, and Eiichro Sumita.
Conference on Empirical Methods in Natural Language Processing (EMNLP-2017), Copenhagen, Denmark.

Neural Machine Translation with Source Dependency Representation.
Kehai Chen, **Rui Wang***, Masao Utiyama, Lemao Liu, Akihiro Tamura, Eiichiro Sumita, and Tiejun Zhao.
Conference on Empirical Methods in Natural Language Processing (EMNLP-2017), Copenhagen, Denmark.

Sentence Embedding for Neural Machine Translation Domain Adaptation.
Rui Wang, Andrew Finch, Masao Utiyama, and Eiichiro Sumita.
The 55th annual meeting of the Association for Computational Linguistics (ACL-2017), Vancouver, Canada.

Connecting Phrase based Statistical Machine Translation Adaptation.
Rui Wang, Hai Zhao*, Bao-Liang Lu, Masao Utiyama*, and Eiichro Sumita.
The 26th International Conference on Computational Linguistics (COLING-2016), Osaka, Japan

A Bilingual Graph-based Semantic Model for Statistical Machine Translation.
Rui Wang, Hai Zhao*, Sabine Ploux*, Bao-Liang Lu, and Masao Utiyama.
25th International Joint Conference on Artificial Intelligence (IJCAI-16), New York, USA.

Neural Network Based Bilingual Language Model Growing for Statistical Machine Translation.
Rui Wang, Hai Zhao*, Bao-Liang Lu, Masao Utiyama, and Eiichro Sumita.
Proceedings of the 2014 Conference on Empirical Methods in Natural Language Processing (EMNLP-2014), Doha, Qatar.

Converting Continuous-Space Language Models into N-gram Language Models for Statistical Machine Translation.
Rui Wang, Masao Utiyama, Isao Goto, Eiichro Sumita, Hai Zhao, and Bao-Liang Lu.
Proceedings of the 2013 Conference on Empirical Methods in Natural Language Processing (EMNLP-2013), Seattle, USA.

Patent

Multi-domain Neural Machine Translation.
Japanese Patent, submitted.
Rui Wang and Masao Utiyama.

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`https://wangruinlp.github.io/`