

Rui Wang

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Experience

Tenure-track Researcher, Advanced Translation Technology Laboratory, NICT, Kyoto, Japan, 2019-

Fixed-term Researcher, Advanced Translation Technology Laboratory, NICT, Kyoto, Japan, 2016-2018.

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 Institute 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, EMNLP, NAACL, IJCNLP, AAAI, and IWSLT et al.

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

Collaborating and Supervising

2019: Zhuosheng Zhang (Ph.D. student of SJTU), Zuchao Li (Ph.D. student of SJTU), and Chaoqun Duan (Ph.D. student of HIT)

2018: Haipeng Sun (Ph.D. student of HIT), Shu Jiang (Ph.D. student of SJTU), and Mingming Yang (Ph.D. student of HIT/Soochow University)

2017: Kehai Chen (Ph.D. of HIT) and Zhisong Zhang (master of SJTU).

Selected Publications

Shared Tasks

WMT-2018 (with Benjamin Marie): 1st places in four tasks (English<->Estonian and English<->Finnish) and tied 1st in other three tasks (Chinese->English and English<->Turkish).

WAT-2018 (with Chenchen Ding): 1st places in Myanmar (Burmese) <- English by BLEU.

CWMT-2018 (with Benjamin Marie): Tied 1st places in English<->Chinese by significance test.

Journal Articles

Sentence Seletion and Weighting for Neural Machine Translation Domain Adaptation.

Rui Wang, Masao Utiyama, Andrew Finch, Lema Liu, Kehai Chen, and Eiichro Sumita.
IEEE/ACM Transactions on Audio, Speech, and Language Processing (TASLP), accepted, 2018.

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, 2018.

A Neural Approach to Source Dependency-Based Context Model for Statistical Machine Translation.

Kehai Chen, Tiejun Zhao, Muyun Yang, Lema 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

A Survey of Domain Adaptation for Neural Machine Translation.

Chenhui Chu and **Rui Wang**
The 27th International Conference on Computational Linguistics (COLING-2018), Santa Fe, USA.

Exploring Recombination for Efficient Decoding of Neural Machine Translation.

Zhisong Zhang, **Rui Wang***, Masao Utiyama, Eiichiro Sumita, and Hai Zhao*
2018 Conference on Empirical Methods in Natural Language Processing (EMNLP-2018), Brussels, Belgium.

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, 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 Eiichiro 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 Eiichiro 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 Eiichiro 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, Eiichiro 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.