

CONTACT INFORMATION

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Google scholar: <https://scholar.google.com/citations?user=uol1Wr0AAAAJ>

Pronouns: she/her

EMPLOYMENT HISTORY

Professor June 2024 - Present
School of Computing, Tokyo Institute of Technology

Associate Professor June 2014 - 2024
Graduate School of Information Science and Technology, Osaka University

Associate Researcher Apr. 2010 - June 2014
Microsoft Research Asia

EDUCATION

Ph.D., Information Science Mar. 2010
Graduate School of Information Science and Technology, Osaka University
Dissertation: Research on comfortable Web browsing using mobile phones

M.S., Information Science Mar. 2007
Graduate School of Information Science and Technology, Osaka University

B.S., Engineering Mar. 2006
School of Engineering, Osaka University

SELECTED RECENT PUBLICATIONS

I mostly publish in the field of natural language processing, which is highly conference-driven. Top conferences in this field (e.g., ACL, EMNLP, and NAACL) are generally more competitive than most journals, having roughly a 25% acceptance rate per year. The full list of publications is available at: <https://yukiar.github.io/publication.html>

1. Y. Ogasa, T. Kajiwar, Y. Arase. Controllable Paraphrase Generation for Semantic and Lexical Similarities, in Proc. of Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024), (May 2024, to appear).
2. R. Miyano, T. Kajiwar, Y. Arase. Self-Ensemble of N-best Generation Hypotheses by Lexically Constrained Decoding, in Proc. of Conference on Empirical Methods in Natural Language Processing (EMNLP 2023), pp. 14653-14661 (Dec. 2023).
3. S. Uchida, Y. Arase, and T. Kajiwar. Profiling English Sentences Based on CEFR Levels, in ITL-International Journal of Applied Linguistics (2023, in press).
4. Y. Arase, H. Bao, and S. Yokoi. Unbalanced Optimal Transport for Unbalanced Word Alignment, in Proc. of the Annual Meeting of the Association for Computational Linguistics (ACL 2023), pp. 3966-3986 (July 2023).
5. Y. Arase, S. Uchida, and T. Kajiwar. CEFR-based Sentence Difficulty Annotation and Assessment, in Proc. of Conference on Empirical Methods in Natural Language Processing (EMNLP 2022), pp. 6206-6219 (Dec. 2022).
6. H. Huang, T. Kajiwar, and Y. Arase. Definition Modelling for Appropriate Specificity, in Proc. of Conference on Empirical Methods in Natural Language Processing (EMNLP2021), pp. 2499-2509 (Nov. 2021).
7. N. Tiyaamorn, T. Kajiwar, Y. Arase, and M. Onizuka. Language-agnostic Representation from Multilingual Sentence Encoders for Cross-lingual Similarity Estimation, in Proc. of Conference on Empirical Methods in Natural Language Processing (EMNLP2021), pp. 7764-7774 (Nov. 2021).
8. J. Takayama, T. Kajiwar, and Y. Arase. DIRECT: Direct and Indirect Responses in Conversational Text Corpus, in Findings of the Association for Computational Linguistics: EMNLP 2021, pp. 1980-1989 (Nov. 2021).
9. Y. Arase and J. Tsujii: Transfer Fine-Tuning of BERT with Phrasal Paraphrases, in Computer Speech & Language, Vol. 66 (Mar. 2021).
10. Y. Arase and J. Tsujii: Compositional Phrase Alignment and Beyond, in Proc. of Conference on Empirical Methods in Natural Language Processing (EMNLP2020), pp. 1611-1623 (Nov. 2020).
11. S. Ohashi, J. Takayama, T. Kajiwar, C. Chu, Y. Arase. Text Classification with Negative Supervision, in Proc. of Annual Meeting of the Association for Computational Linguistics (ACL 2020), pp. 351-357 (July 2020).
12. T. Kajiwar, B. Miura, and Y. Arase. Monolingual Transfer Learning via Bilingual Translators for Style-Sensitive Paraphrase Generation, in Proc. of the AAAI Conference on Artificial Intelligence (AAAI 2020), pp. 8042-8049, (Feb. 2020).
13. Y. Arase and J. Tsujii. Monolingual Phrase Alignment on Parse Forests, in Proc. of Conference on Empirical Methods in Natural Language Processing (EMNLP 2017), pp. 1-11 (Sept. 2017).

INTERNATIONAL PATENTS

- Y. Arase, Y. Zhu, and X. Xie. Identifying Status based on Heterogeneous Sensors, U.S. Patent 8718672, 10-18-2012.
- Y. Arase and X. Xie. Construction of Photo Trip Patterns based on Geographical Information, U.S. Patent 8626699, 3-17-2011.

EXTERNAL SERVICES

Member-At-Large: ACL Executive Committee (2024-2027), Asian Federation of Natural Language Processing (2022-2024)

Program Chair: IJCNLP-AACL 2023

Publicity and Social Media Chair: ACL 2024

Publication Chair: ACL-IJCNLP 2021

(Senior) Area Chair: ACL, EMNLP, ACL Rolling Review, COLING, etc.