NORIKI NISHIDA

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EDUCATION

Ph.D. Student in Information Science and Technology *Apr. 2017 - Present*
Department of Creative Informatics
The University of Tokyo

Dissertation title: "Unsupervised Induction of Natural Language Discourse Structure Based on Rhetorical Structure Theory"

Advisor: Hideki Nakayama

Master's Degree in Information Science and Technology *Apr. 2015 - Mar. 2017*
Department of Creative Informatics
The University of Tokyo

Thesis title: "Unsupervised Learning of Syntactically Plausible Word Representations by Solving Word Ordering"

Advisor: Hideki Nakayama

Bachelor's Degree in Engineering *Apr. 2009 - Mar. 2015*
Department of Information and Communication Engineering
The University of Tokyo

Thesis title: "Hand Gesture Recognition Using Recurrent Convolutional Neural Networks"

Advisor: Hitoshi Iba, Yoshihiko Hasegawa

RESEARCH INTERESTS

I work in the area of natural language processing (computational linguistics). I am interested in uncovering structures, rules, and knowledge behind linguistic phenomena in a data-driven manner. In particular, I am working on problems related to automated text analysis (parsing). I am also interested in unsupervised learning of natural languages.

PROFESSIONAL EMPLOYMENT

Research Fellow (DC2), The Japan Society for the Promotion of Science *Apr. 2018 - Present*

AWARDS & HONORS

Research Fellowship (DC2) from the Japan Society for the Promotion of Science with research fund of approximately 75,000 USD/year for two years. *Apr. 2018 - Present*

The Japan Society of Artificial Intelligence Annual Conference Award *Jul. 2017*

PUBLICATIONS

Under Review

- A work on unsupervised discourse nuclearity identification.

Journal Articles

- **Unsupervised Discourse Constituency Parsing Using Viterbi EM.**
  Noriki Nishida and Hideki Nakayama.
  Transactions of the Association for Computational Linguistics, to appear.
- **Zero-Resource Machine Translation by Multimodal Encoder-Decoder Network with Multimedia Pivot.**
  Hideki Nakayama and Noriki Nishida.
  Machine Translation, vol.31, no.1, pp.49–64, 2017.

Conference Proceedings

- **Coherence Modeling Improves Implicit Discourse Relation Recognition.**
  Noriki Nishida and Hideki Nakayama.
  In Proceedings of the 19th Annual Meeting of the Special Interest Group on Discourse and Dialogue, 2018.
- **Word Ordering as Unsupervised Learning Towards Syntactically Plausible Word Representations.**
  Noriki Nishida and Hideki Nakayama.
  In Proceedings of the 8th International Joint Conference on Natural Language Processing, 2017.
- **Generating Video Description Using Sequence-to-Sequence Model with Temporal Attention.**
  Natsuda Laokulrat, Sang Phan, Noriki Nishida, Raphael Shu, Yo Ehara, Naoaki Okazaki, Yusuke Miyao, Shin'ichi Satoh, and Hideki Nakayama.
  In Proceedings of the 26th International Conference on Computational Linguistics, 2016.
- **Multimodal Gesture Recognition Using Multi-Stream Recurrent Neural Network.**
  Noriki Nishida and Hideki Nakayama.
  In Proceedings of the 7th Pacific-Rim Symposium on Image and Video Technology, 2015.

Non-refereed Domestic Conferences

- **Exploiting Discourse Irreducibility for Unsupervised Nuclearity Classification.**
  Noriki Nishida and Hideki Nakayama.
  In Proceedings of the 26th Annual Meeting of the Association for Natural Language Processing, 2020. (in Japanese)
- **Unsupervised Paraphrase Generation by Reordering Noun Phrases.**
  Shota Sugiura, Noriki Nishida, and Hideki Nakayama.
  In Proceedings of the 26th Annual Meeting of the Association for Natural Language Processing, 2020. (in Japanese)
- **RST Discourse Structure Improves Story Ending Generation.**
  Hong Chen, Noriki Nishida, Raphael Shu, Naoaki Okazaki, and Hideki Nakayama.
  In Proceedings of the 26th Annual Meeting of the Association for Natural Language Processing, 2020.

- **Discourse Constituent-Context Model for Unsupervised Discourse Constituency Parsing.**
  Noriki Nishida and Hideki Nakayama.
  In Proceedings of the 25th Annual Meeting of the Association for Natural Language Processing, 2019. (in Japanese)
- **Vision Mediated Story Generation.**
  Hong Chen, Raphael Shu, Noriki Nishida, and Hideki Nakayama.
  In Proceedings of the 25th Annual Meeting of the Association for Natural Language Processing, 2019.
- **Semi-Supervised Implicit Discourse Relation Recognition Using Coherence Modeling.**
  Noriki Nishida and Hideki Nakayama.
  In Proceedings of the 24th Annual Meeting of the Association for Natural Language Processing, 2018. (in Japanese)
- **Automatic Coding Style Evaluation Using Recurrent Neural Networks.**
  Yuki Kobayashi, Noriki Nishida, and Shigeru Chiba.
  In Proceedings of the 34th Japan Society for Software Science and Technology (JSSST) Annual Conference, 2017. (in Japanese)
  Student Incentive Award.
- **Learning Syntactically Plausible Word Representations by Solving Word Ordering.**
  Noriki Nishida and Hideki Nakayama.
  In Proceedings of the 31st Annual Conference of the Japan Society for Artificial Intelligence, 2017.
  Annual Conference Award.

INVITED TALKS

- **Towards Unsupervised Discourse Parsing.**
  At The Perception and Language Understanding (PLU) Group at Artificial Intelligence Research Center (AIRC), Japan, Nov. 2018.
- **Deep Learning for Computer Vision.**
  At Kansai Chapter of the Acoustic Society of Japan, Mar. 2016.
- **Deep Learning for Video Recognition.**
  At Prometech Simulation Conference, Japan, Sep. 2015.

WORK EXPERIENCES

External Collaborator, The PLU Group at AIRC.	*Apr. 2016 - Present*
Part-time Software Engineer, Logarhythm Inc.	*Nov. 2014 - Aug. 2015*
Teaching Assistant, Data science, The University of Tokyo.	*Oct. 2017 - Mar. 2018*
Teaching Assistant, Basic programming exercise, The University of Tokyo.	*Oct. 2014 - Mar. 2015*

SKILLS

Natural Language Processing	Document/sentence structure analysis, text mining
Machine Learning	Unsupervised learning, deep learning, multimodal processing
Computer Vision	Video (gesture) recognition, OpenCV
Programming	Python, Java, C, C++, SQL, Linux