

TAEUK KIM

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RESEARCH INTERESTS

Natural Language Processing, Machine Learning & Deep Learning. Especially interested in

- Sentence representation learning,
- Deep probabilistic models based on linguistic priors,
- Utilizing syntactic or latent trees for natural language understanding,
- Natural language processing for Korean language.

EDUCATION

Seoul National University

Jan. 2016 - present

Ph.D. in Computer Science and Engineering

Supervisor: Sang-goo Lee

Seoul National University

Mar. 2009 - Dec. 2011, Mar. 2015 - Feb. 2016

B.S in Computer Science and Engineering

PUBLICATIONS

1. Sanghwan Bae, **Taeuk Kim**, Jihoon Kim, and Sang-goo Lee, Summary Level Training of Sentence Rewriting for Abstractive Summarization, *The Second Workshop on New Frontiers in Summarization (NewSum) at EMNLP-IJCNLP 2019*.
2. Jihun Choi, **Taeuk Kim**, and Sang-goo Lee, Cell-aware Stacked LSTMs for Modeling Sentences, *The 11th Asian Conference on Machine Learning (ACML 2019)*.
3. **Taeuk Kim***, Kang Min Yoo*, and Sang-goo Lee, Don't Just Scratch the Surface: Enhancing Word Representations for Korean with Hanja, *Conference on Empirical Methods in Natural Language Processing 2019 and 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP 2019)*. (*: equal contribution)
4. Daniel Edmiston and **Taeuk Kim**, Intrinsic Evaluation of Grammatical Information within Word Embeddings, *The 33rd Pacific Asia Conference on Language, Information and Computation (PACLIC 33)*.
5. Jihun Choi, **Taeuk Kim**, and Sang-goo Lee, A Cross-Sentence Latent Variable Model for Semi-Supervised Text Sequence Matching, *The 57th Annual Meeting of the Association for Computational Linguistics (ACL 2019)*.
6. **Taeuk Kim**, Jihun Choi, Daniel Edmiston, SangHwan Bae, and Sang-goo Lee, Dynamic Compositionality in Recursive Neural Networks with Structure-aware Tag Representations, *Thirty-Third AAAI Conference on Artificial Intelligence (AAAI 2019)*.
7. Jihun Choi, **Taeuk Kim**, and Sang-goo Lee, Element-wise Bilinear Interaction for Sentence Matching, *The Seventh Joint Conference on Lexical and Computational Semantics (*SEM 2018) at NAACL HLT 2018*.
8. **Taeuk Kim**, Jihun Choi, and Sang-goo Lee, SNU_IDS at SemEval2018 Task 12: Sentence Encoder with Contextualized Vectors for Argument Reasoning Comprehension, *International Workshop on Semantic Evaluation (SemEval 2018) at NAACL HLT 2018*.

9. Sanghyuk Choi, **Taeuk Kim**, Jinseok Seol, and Sang-goo Lee, A Syllable-based Technique for Word Embeddings of Korean Words, *The 1st Workshop on Subword and Character level models in NLP (SCLeM 2017) at EMNLP 2017*.

RESEARCH PROJECT EXPERIENCE

Spoken Language Understanding System for Automobiles 2017 - 2018
Led by Prof. Sang-goo Lee (PI)

- Development of intention classification modules in the SRU framework
- Preliminary experiments for implementing machine reading comprehension modules

Online Data Monitoring System for High-performance Computing 2018 - 2019
Led by Prof. Sang-goo Lee (PI)

- Refinement of in-house Korean NLP tools — POS and NER taggers.

TEACHING EXPERIENCE

Big Data Engineering June. 2017 - Aug. 2018
SNU 4th Industrial Revolution Academy - Teaching Assistant

A Tutorial on Python Basics One day sessions, 2017
SNU 4th Industrial Revolution Academy, Big Academy, Big Camp - Lecturer

Introduction to Databases Sep. 2016 - Dec. 2016
Department of Computer Science & Engineering, SNU - Teaching Assistant

Digital Computer Concept and Practice (Intro. to Python) Mar. 2016 - Aug. 2016
Department of Computer Science & Engineering, SNU - Teaching Assistant

WORKING EXPERIENCE

Namo Interactive Corp. Jan. 2012 - Feb. 2015
Web Developer (as alternative military service)

- Namu Blog with Ildong Pharmaceutical Co. 2012
- Namu Schoolweb 2012 - 2013
- Namu License Managing System 2014

AWARDS AND HONORS

National Science & Technology Scholarship Sep. 2015 - Dec. 2015
Korea Student Aid Foundation (KOSAF)

ACADEMIC SERVICES

Reviewer

- AAAI 2020

REFERENCE

Sang-goo Lee

- Professor, Department of Computer Science and Engineering, Seoul National University.
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