Hee-Jun Jung

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Github: github.com/maroo-sky
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Research Interests

Disentanglement Learning, Group Theory, Variational Auto-Encoder (VAE), Combinatorial Generalization, Representation Learning

Education

- **Gwangju Institute of Science and Technology** — Gwangju, South Korea
  Integrated - AI Graduate School; GPA: 3.52/4.50 (current) — *Mar. 2020 - present*
  Courses: *Algorithms, Artificial Intelligence, Machine Learning, Reinforcement Learning*
- **Kyung Hee University** — Suwon, South Korea
  B.S. - Dpartment of Mechanical Engineering; GPA: 3.72/4.30, major GPA: 3.84/4.30, — *Mar. 2012 - Feb. 2020*
  Courses: *Object-oriented Programming, Discrete Structure, Engineering Mathematics (1,2,3)*

Skills Summary

- **Languages**: Python, C++
- **Frameworks**: Scikit, NLTK, Pytorch, matplotlib
- **Tools**: Docker, GIT
- **Platforms**: Linux, Windows
- **Soft Skills**: Leadership, Writing, Public Speaking

Experience

- **Natural Language Processing Lecture** — GIST
  Teaching Assistant — *1^{st} semester, 2020, 2022*
  - **Model Implementation**: Implement RNN and Transformer model for Neural Machine Translation task.

Publications

- **CFASL: Composite Factor-Aligned Symmetry Learning for Disentanglement in Variational AutoEncoder, TMLR, 11/2024**: author: Hee-Jun Jung, Jaehyoung Jung, Kangil Kim;[paper, code, video]
- **Feature Structure Distillation with Centered Kernel Alignment in BERT transferring, Expert Systems With Applications, 2023**: IF 8.5, JCR 9.8%; author: Hee-Jun Jung, Doyeon Kim, Seung-Hoon Na, Kangil Kim; [paper, code]

Submmisions

- **Consistent Symmetry Representation over Latent Factors of Identical Variations, ICLR 2025 submission**: author: Hee-Jun Jung, Hoyong Kim, Ilmin Kang, Kangil Kim;[paper, code]
- **Symmetric Space Learning for Combinatorial Generalization, ICLR 2025 submission**: author: Jaehyoung Jeong, Hee-Jun Jung, Kangil Kim;[paper, code]
- **Multiple Invertible and Equivariant Transformation for Disentanglement in VAEs, TPAMI, under review**: author: Hee-Jun Jung, Jaehyoung Jung, Kangil Kim; [paper, code]

Projects

- **Development of Schema-Loading Neural Network for Accumulation of Trained Hypotheses into General and Shared Hypotheses Space**: Work was supported by the National Research Foundation of Korea (NRF) grant funded by the Korea government (MSIT) (2022R1A2C2012054)
- **Development of service robot and contents supporting children's reading activities based on artificial intelligence**: Work was supported by the Ministry of Culture, Sports and Tourism, in South Korea

Honors and Awards

- Mentor Scholoarship - 2^{nd} semester, 2015
- Superiority Scholarship - 2^{nd} semester, 2017
- Superiority Scholarship - 2019