Suyoung Lee

Contact Information

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Research Interests

Deep reinforcement learning, especially generalization and unsupervised exploration.

Education

Ph.D. Candidate, Electrical Engineering *Mar. 2019 to Feb. 2024 (expected)*
(advisor: Prof. Youngchul Sung)
Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea.

M.S., Electrical Engineering (advisor: Prof. Sae-Young Chung) *Feb. 2019*
Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea.

B.S., Electrical Engineering *Feb. 2017*
Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea.

Hansung Science High School, Seoul, Republic of Korea. *Feb. 2012*

Honors

Qualcomm-KAIST Innovation Awards. *2018*
Paper competition awards for graduate students, Qualcomm.

Un Chong-Kwan Scholarship Award. *2017*
For achievement of excellence in 2017 entrance examination, KAIST EE.

Publications

[W1] **Suyoung Lee** and Sae-Young Chung, "*Adaptive Intrinsic Motivation with Decision Awareness*", Decision Awareness in Reinforcement Learning Workshop at International Conference on Machine Learning (ICML), 2022.

[C2] **Suyoung Lee** and Sae-Young Chung, "*Improving Generalization in Meta-RL with Imaginary Tasks from Latent Dynamics Mixture*", Neural Information Processing Systems (NeurIPS), 2021.

[C1] **Suyoung Lee**, Sungik Choi, and Sae-Young Chung, "*Sample-Efficient Deep Reinforcement Learning via Episodic Backward Update*", Neural Information Processing Systems (NeurIPS), 2019.

Languages

Korean and English (TOEIC 980, international linguistic experience at Tashkent International School, 2007–2009).

Programming Languages

MATLAB and Python (PyTorch/TensorFlow).

Academic Services

Conference reviewer: ICML (2021/2022) and NeurIPS (2021/2022).

Teaching Experience

Teaching assistant (KAIST) *Spring 2018 to Fall 2020*

- EE326 Introduction to Information Theory and Coding.
- EE210 Probability and Introductory Random Processes.
- EE105 Electrical Engineering: Changing the World.
- EE405 Electronics Design Lab. Network of Smart Things.
- EE807 Special Topics in EE. Deep Reinforcement Learning and AlphaGo.

- EE405 Electronics Design Lab. Network of Smart Systems.