Deokjae Lee

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EDUCATION

Seoul National University, M.S. & Ph.D.   **2020.09 - Current**
Department of Computer Science and Engineering (Advisor: Prof. Hyun Oh Song)

Seoul National University, B.S.   **2016.03 - 2020.08**
Department of Mathematical Sciences

Seoul Science High School   **2012.03 - 2015.02**

EXPERIENCES

Center for Data Science, New York University   **2023.09 - 2024.02**
Visiting Scholar (Advisor: Prof. Kyunghyun Cho)
Conducting research on active learning algorithm for multi-objective combinatorial problem [C5].

DeepMetrics   **2023.07 - 2023.08**
Research Intern (Advisor: Prof. Hyun Oh Song)
Evaluated AI for ventilator control via causal inference models.

**SNU-HKUST Summer Research Program in
Industrial and Applied Mathematics (SPIA)**   **2019.06 - 2019.08**
Team Leader
Applying inverse reinforcement learning techniques on StarCraft.

VisualCamp   **2018.12 - 2019.02**
Research Intern
Developing eye-tracking algorithm for mobile devices.

PUBLICATIONS

[C5] Training Greedy Policy for Proposal Batch Selection in Expensive Multi-Objective Combinatorial Optimization

Deokjae Lee, Hyun Oh Song, Kyunghyun Cho
ICML 2024.

[C4] Query-Efficient Black-Box Red Teaming via Bayesian Optimization

Deokjae Lee, JunYeong Lee, Jung-Woo Ha, Jin-Hwa Kim, Sang-Woo Lee, Hwaran Lee, Hyun Oh Song
ACL 2023.

[C3] Efficient Latency-Aware CNN Depth Compression via Two-Stage Dynamic Programming

Jinuk Kim*, Yeonwoo Jeong*, **Deokjae Lee**, Hyun Oh Song
ICML 2023.

[C2] Query-Efficient and Scalable Black-Box Adversarial Attacks on Discrete Sequential Data via Bayesian Optimization

Deokjae Lee, Seungyong Moon, Junhyeok Lee, Hyun Oh Song
ICML 2022.

[C1] Optimal channel selection with discrete QCQP

Yeonwoo Jeong*, **Deokjae Lee***, Gaon An, Changyong Son, Hyun Oh Song
AISTATS 2022.

Teaching

Teaching Assistant, Introduction to Deep Learning (M2177.0043)	Spring 2023
Teaching Assistant, Machine Learning (4190.666)	Fall 2020
Undergraduate Student Instructor, Basic Calculus 2 (033.017)	Fall 2017
Undergraduate Student Instructor, Basic Calculus 1 (033.016)	Spring 2017

Honors and Awards

Qualcomm Innovation Fellowship Korea, Finalist [C4]	2023
Yulchon AI Star Scholarship	2023
Qualcomm Innovation Fellowship Korea, Finalist [C2]	2022
Silver Medal, Korean Contest of Mathematics for University Students	2019
National Science & Technology Scholarship	2018 - 2020
Silver Medal, Korean Mathematical Olympiad (KMO)	2013

Academic Services

Conference Reviewer: NeurIPS (2022, 2023, 2024), ICML (2023, 2024), ICLR (2024), ACL (2023), EMNLP (2023), COLM (2024).

Journal Reviewer: TPAMI (2024).

Skills

Programming Languages and Frameworks
- Advanced: Python, PyTorch, TensorFlow, LaTeX.
- Intermedicate: C++, MATLAB.

Languages
- Korean (native).
- English (fluent).

References

Hyun Oh Song Associate Professor, Dept. of Computer Science and Engineering, SNU (hyunoh@snu.ac.kr).

Kyunghyun Cho Professor, Dept. of Computer Science and Engineering, NYU (kc119@nyu.edu).

last edit : 2024.07