Deokjae Lee

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EDUCATION

Seoul National University, M.S. & Ph.D. Department of Computer Science and Engineering (Advisor: Prof. Hyun Oh Son	Sep.2020 - Current <i>g</i>)
Seoul National University, B.S. Department of Mathematical Sciences	Mar.2016 - Aug.2020
Seoul Science High School	Mar.2012 - Feb.2015
Experiences	
Center for Data Science, New York University Visiting Scholar (Advisor: Prof. Kyunghyun Cho) Conducting research on active learning algorithm for multi-objective combinatorial profe	Sep.2023 - Feb.2024 olem [C5].
DeepMetrics <i>Research Intern (Advisor: Prof. Hyun Oh Song)</i> Evaluated AI for ventilator control via causal inference models.	Jul.2023 - Aug.2023
SNU-HKUST Summer Research Program in Industrial and Applied Mathematics (SPIA) Team Leader Applying inverse reinforcement learning techniques on StarCraft.	Jun.2019 - Aug.2019
VisualCamp Research Intern Developing eye-tracking algorithm for mobile devices.	Dec.2018 - Feb.2019
Publications	
• C: Conference, P: Preprint, *: equal contribution.	
[P1] Weighted Maximum Antichain Identification Algorithm through a Linear Pr Junhyeok Lee, Deokjae Lee, Yeonwoo Jeong, Hyun Oh Song Submitted to SODA 2025.	ogramming
[C5] Training Greedy Policy for Proposal Batch Selection in Expensive Multi-Ob Optimization	jective Combinatorial
Deokjae Lee , Hyun Oh Song, Kyunghyun Cho <i>ICML</i> 2024.	
[C4] Query-Efficient Black-Box Red Teaming via Bayesian Optimization	
Deokjae Lee , JunYeong Lee, Jung-Woo Ha, Jin-Hwa Kim, Sang-Woo Lee, <i>ACL</i> 2023.	Hwaran Lee, Hyun Oh Song
[C3] Efficient Latency-Aware CNN Depth Compression via Two-Stage Dynamic F	Programming
Jinuk Kim [*] , Yeonwoo Jeong [*] , Deokjae Lee , Hyun Oh Song <i>ICML</i> 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), AAAI (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).