Taehyun Hwang

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CONTACT INFORMATION

Graduate School of Data Science

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Seoul National University

1 Gwanak-ro, Gwanak-gu, Seoul, South Korea, 08826

RESEARCH INTERESTS

Sequential decision making under uncertainty, Statistical machine learning, Optimization for Machine Learning

EDUCATION

Seoul National University

Mar. 2020 - Present

Ph.D Candidate in Data Science

Advisor: Min-hwan Oh

Sungkyunkwan University

Sept. 2016 - Aug. 2018

M.S in Mathematics

Advisor: Yongdo Lim / Co-advisor: Rhee Man Kil

Thesis: Combination of Gaussian Kernel Function Networks for Traffic Flow Prediction

Kyungpook National University

Mar. 2010 - Aug. 2016

B.S in Mathematics (Graduated with the highest honor)

Minor: Business Administration

EXPERIENCE

• The Research Institute of Basic Science, Sungkyunkwan University

Research Assistant

Sept. 2018 - Feb.2020

PREPRINT PAPERS (* denotes equal contribution)

[1] Combinatorial Neural Bandits

Taehyun Hwang*, Kyuwook Chai*, and Min-hwan Oh

Under review

- Best Paper Award winner, Korean Artificial Intelligence Association 2022 Summer Conference
- The 1st GSDS InnoJam Poster Awards, Seoul National University

Publications (* denotes equal contribution)

[3] Model-based Reinforcement Learning with Multinomial Logistic Function Approximation. Taehyun Hwang and Min-hwan Oh

To appear Proceedings of the 37th AAAI Conference on Aritificial Intelligence (AAAI), 2023.

- Oral presentation in main technical session
- [2] Deep Learning Aided Evaluation for Electromechanical Properties of Complexly Structured Polymer Nanocomposites.

Kyungmin Baek, **Taehyun Hwang**, Wonseok Lee, Hayoung Chung, and Maenghyo Cho Composites Science and Technology, 109661, 2022.

[1] Estimation of Jamming Parameters based on Gaussian Kernel Function Networks.

Taehyun Hwang, Rhee Man Kil, Hyun Ku Lee, Jung Ho Kim, Jae Heon Ko, Jeil Jo, and Junghoon Lee Journal of the Korea Institute of Military Science and Technology 23 (1), 1-10, 2020.

PROJECTS

A study on the algorithms for estimating the parameters of autonomous jamming technique

(Director: Prof. Rhee Man Kil)

Apr. - Dec. 2018

Funded by Agency for Defense Development and LIG Nex1

Funded by National Institute for Mathematical Sciences Talks "Model-based Reinforcement Learning with Multinomial Logistic Function Approximation" KAIA & NAVER 2022 Fall Conference, NAVER 1784 (Seungnam) November 2022 October 2022 INFORMS 2022 Annual meeting, Indianapolis "Combinatorial Neural Bandits" KDMS 2022 Summer Conference, Busan August 2022 KAIA 2022 Summer Conference, Jeju August 2022 INFORMS 2021 Annual meeting, Anaheim (Virtual) October 2021 "A Gaussian kernel function network for traffic flow prediction" KMS 2019 Annual meeting, Hongik University Oct. 26, 2019 "Mathematics and Machine learning" Special lecture for undergraduate students, Kongju National University Sept. 24, 2019 SCHOLARSHIPS AND AWARDS • AAAI Student Scholarship, AAAI Feb. 2023 • Best Paper Award, Korean AI Association Conference Aug. 2022 • GSDS InnoJam Poster Awards, Seoul National University Mar. 2021 TEACHING EXPERIENCE • Teaching Assistant at Seoul National University Data Science & Reinforcement Learning, Foundation of Data Science, Math for Data Science • Teaching Assistant at Sungkyunkwan University Calculus I/II, Linear Algebra, Discrete Mathematics, Topics in Algebra (Lie Algebra)

May. - Sept. 2017

An industrial problem solving project using mathematical data analysis

Academic Services

• Program Committee & Reviewer

ICML 2023, NeurIPS 2022

(Director: Prof. Yongdo Lim)