Joongkyu Lee

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RESEARCH INTERESTS

Sequential Decision Making, Reinforcement Learning, Bandit Algorithms, Statistical Machine Learning, Optimization

EDUCATION

Seoul National University, Seoul, South Korea Mar. 2023 - Present Ph.D Candidate in Data Science, Advisor: Min-hwan Oh Seoul National University, Seoul, South Korea Feb. 2023 M.S. in Data Science, Advisor: Min-hwan Oh Feb. 2016 Yonsei University, Seoul, South Korea B.S. in Industrial Engineering Publications [4] Nearly Minimax Optimal Regret for Multinomial Logistic Bandit (Top 0.2%, 32/15671) J. Lee and M. Oh Neural Information Processing Systems (NeurIPS), 2024. [3] Randomized Exploration for Reinforcement Learning with Multinomial Logistic Function Approximation W. Cho, T. Hwang, J. Lee and M. Oh Neural Information Processing Systems (NeurIPS), 2024. [2] Demystifying Linear MDPs and Novel Dynamics Aggregation Framework J. Lee and M. Oh International Conference on Learning Representations (ICLR), 2024. [1] Learning Uncertainty-Aware Temporally-Extended Actions J.Lee, S. Park, Y. Tang, and M. Oh AAAI Conference on Artificial Intelligence (AAAI), 2024. EXPERIENCE **Samsung Electronics** | SQL, Python Aug. 2018 - Dec. 2020 • Production Management Group at Samsung Electronics DS Mar. 2016 - Mar.2018 Military Service • Republic of Korea Air Force INDUSTRY PROJECTS Development of Analysis Model to Explore Test Process Equipment Combination and Improve Flexible Test Performance Mar. - Sep. 2022 • Director: Prof. Min-hwan Oh • Funded by SK hynix Feb. 2024 - Present Development of an AI-Based Virtual Fighter Jet Training System • Director: Prof. Min-hwan Oh • Funded by Korea Aerospace Industries (KAI), LTD

Invited Talks & Conference Presentation

Best Paper Award, Korea Artificial Intelligence Association	July. 2023
Awards & Scholarships	
• 2022 Korea Artificial Intelligence Association (KAIA)	Aug. 2022
• 2022 INFORMS Annual meeting, Indianapolis	Oct. 2022
2023 Korea Data Mining Society	June. 2023
"Learning Uncertainty Aware Temporally Friended Actions"	
 <i>"Hierarchical Model-Based Reinforcement Learning with Linear Function Approximation"</i> 2023 Korea Artificial Intelligence Association (KAIA), Best Paper Award Earlier Version of <i>"Demystifying Linear MDPs and Novel Dynamics Aggregation Framework"</i> 	July. 2023 mework"
• SK Telecom Market Top AI Course	July Aug. 2023
"Contextual Linear Bandits" and "Deep Reinforcement Learning"	