

Dokeun Lee

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RESEARCH INTEREST

Reinforcement Learning, Motion Planning, Learning-Based Control, and Autonomous Driving.

EDUCATION

Sep. 2024 - present	M.S. in Electrical Engineering, UNIST Advisor: Jeong hwan Jeon	(GPA: 4.17/4.3)
Feb. 2019 - Aug. 2024	B.S. in Electrical Engineering, UNIST Advisor: Jeong hwan Jeon Thesis: Deep Reinforcement Learning for Multi-Tasking Robotic Arms in Isaac Gym	(GPA: 3.85/4.3)

PUBLICATIONS

Conferences

- **Attention-Based Reinforcement Learning for Context-Aware Path Tracking Control**
Dokeun Lee, Jeonghwan Song, Hyojae Lee, Jeong hwan Jeon
IEEE Intelligent Vehicles Symposium (IV), 2026
- **Reinforcement Learning-Based Approach for Real-Time Routing in Mobile Markets**
Changju Kim, Jungeun Lee, **Dokeun Lee**, Jeong hwan Jeon
Summer Annual Conference of IEIE, 2025

Preprints

- **Demonstrating a Vision-Based AI Robot for Strategic Board Games**
Taehwan Kim*, **Dokeun Lee***, Seonghyeon Kim*, Yongjun Choi*, Sungjun Heo, Thi Thuy Ngan Duong, Kyungdon Joo, Namhun Kim, Jeong hwan Jeon, Hyemin Ahn
(*: Equal Contributions)

PROJECTS

Development of Reinforcement Learning-Based Automated Driving AI Software Technology for Optimal Driving Behavior Decision in Hazardous Situations on Congested Roads *Apr. 2024 – Dec. 2027*
Funded by IITP | Reinforcement Learning-Based Control Development

2025 Autonomous Driving AI Challenge
3rd Place in Future Trajectory Prediction
Jeonghwan Song, Kyeongmin Do, Dokeun Lee

News
Aug. 2025 – Oct. 2025

PATENTS

System and Method for End-to-End Autonomous Driving Using a Reinforcement Learning-Based Control
Jeong hwan Jeon, Dokeun Lee, Hyojae Lee *Application in Aug. 2025*

TEACHING & WORKING EXPERIENCE

Ulsan National Institute of Science and Technology

EEE351 Automatic Control, Teaching Assistant	<i>Spring 2025</i>
MTH201 Differential Equations, Teaching Assistant	<i>Fall 2023</i>
MTH111 Calculus I, Teaching Assistant	<i>Spring 2022</i>

HONORS & AWARDS

3rd Place in Vehicle Trajectory Prediction, 2025 Autonomous Driving AI Challenge (1,500,000 KRW Prize)	<i>Oct. 2025</i>
Academic Honors	<i>Spring 2022, Spring 2023, Spring 2024</i>
Government-Funded Graduate Scholarship (Full-funded)	<i>Sep. 2024 – Aug. 2026</i>
UNIST Academic Performance Scholarship (3.5-Year Full-funded)	<i>Feb. 2019 – Aug. 2024</i>

SKILLS

Languages	Korean – Native, English – Intermediate
Programming Languages	Python, C++, MATLAB
Software & Tools	PyTorch, Linux, CUDA, nuPlan, CARLA, NVIDIA Isaac Gym, ROS, Gazebo, Git, Docker
Reviewer	IEEE IV (2026)