Jongmin Kim

Male / 1998-04-17

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🏠 Busan, ROK 🌐 JONGMIN KIM

🔬 Research Interests

Reinforcement Learning Multi-Armed Bandit, Q-Learning, Deep Q-Network etc.
Deep Learning Convolution Neural Network, Long Short Term Memory, Generation Attemarical Network etc.
Genetic Algorithm

🎓 Education

Dongseo University Mar. 2017 – Feb. 2024 (Expected)
B.S in Software Engineering *47 Jurye-ro, Sasang-gu, Busan 47011, ROK*

Dongseo University Mar. 2022 – Feb. 2024 (Expected)
B.S in Artificial Intelligence Engineering (Dual Degree) *47 Jurye-ro, Sasang-gu, Busan 47011, ROK*

💼 Experience

Undergraduate Researcher Mar. 2021 – Present
› AI and its Applications Lab. @ Dongseo Univ. (Advisor: Sunyong Kim)

Teaching Assistant
› Introduction of Software, Mar. 2022 - Jun. 2022
› Basic of Software Project, Mar. 2023 - Jun. 2023

International Program
› Silicon Valley Software Innovation Technology Program at San Jose State University, 2022.01.24 - 2022.02.18
› 4 weeks of EFL Machine Learning Program at University of the Cordilleras, 2021.07.05 - 2021.07.30

⚗ Research Experience

Research Projects May 2021 – Present
AI and its Applications Lab. @ Dongseo Univ.
» "환경친화적 캠퍼스빌딩 관리를 위한 AI기반 에너지 관리 통합 솔루션"
  한국연구재단, Mar. 2022 - Present
» "아동심리 분석을 위한 인공지능 음성대화형 장치개발 및 감정인식 연구"
  한국연구재단, Jun. 2021 - Dec. 2021
» "한국형 아파트를 위한 드론택배 경로설정기법에 관한 연구"
  한국과학창의재단, Jun. 2021 - Nov. 2021

📄 Publications

Domestic Journal Papers
» 김종민, 김선용*, "강화학습 기반 빌딩의 방별 조명 시스템 조도값 설정 기법" [Paper]
  전기전자학회논문지, 2022, vol.26, no.1, pp. 56-61 (6 pages)

Domestic Conference Papers
» 김종민, 이민수, 김선용*, "강화학습 기반 교통량에 따른 적응형 교차로 신호제어 연구"
  한국통신학회 하계종합학술발표회, 라마다프라자 제주, 2023.06.21-23
» 김종민, 최석민, 김선용*, "빌딩의 방별 조명시스템 조도값 설정을 위한 강화학습 알고리즘 성능 비교 연구" [Paper]
  한국통신학회 추계종합학술발표회, 경주 라한셀렉트, 2022.11.16-18

Patents
» 김종민, 김선용*, "강화학습 기반 조명 제어 방법 및 시스템"
  대한민국, 출원번호 10-2022-0027273, 2022.03.03

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🏆 Awards

2022 Dongseo AI/SW idea an in-School Contest   Jun. 2022
> Participation Prize / Team Leader

San Jose State University Silicon Valley Software Innovation and Technology Program   Feb. 2022
> Second Prize / Team Leader

2021 Dongseo-In AI Hackathon an in-School Competition   Nov. 2021
> Participation Prize / Team Leader

⚙ Skills

Programming Languages C, C++, Python (Familiar) / Matlab (Experienced)
Libraries and Tools Tensorflow, Numpy, Pandas, Git, CLI