

Hee-Mun Park

Graduate Student

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EDUCATION

Mar. 2010 ~ Feb. 2017	Korea University of Technology and Education 주전공 : 전기공학 Major: B.S. in Electrical Engineering GPA(Major) : 3.68 / 4.5	Cheon an, Korea
Mar. 2019 ~ Feb. 2021	Korea University of Technology and Education 주전공 : 전기전자통신 공학 Major: M.S. in Electrical, Electronics & Communication Engineering GPA(Major) : 4.35 / 4.5	Cheon an, Korea
Mar. 2022 ~ Feb. 2026 (Expected)	Hanyang University 산업경영공학과 Next Simulation Lab. Advisor: Kyung-min Seo Ph.D. in Industrial & Management Engineering GPA : 4.13 / 4.5	Seoul, Kor

PUBLICATIONS (SCIE)

1. Hee-Mun Park, Seung-Wan Cho, and Kyung-Min Seo*, "Advanced Path Planning Framework with Real-time Collision Avoidance and Replanning for Naval Ships," *Alexandria Engineering Journal*, 2024 (UNDER REVIEW).
2. Hee-Mun Park, Mi Jang, Yong-Jae Kim, Hyun-Joo Jung, and Kyung-Min Seo*, "Design and Implementation of Data-Based Validation and Evaluation System for Combat System Engineering," *IEEE Access*, vol. 11, pp. 80139-80150, 2023.
3. Dong-Chul Lee, Kyung-Min Seo, Hee-Mun Park, and Byeong Soo Kim*, "Simulation Testing of Maritime Cyber-Physical Systems: Application of Model-View-ViewModel," *Complexity*, vol. 2022, Article ID 1742772, pp. 1-14, 2022.
4. Bong Gu Kang, Hee-Mun Park, Mi Jang, and Kyung-Min Seo*, "Hybrid Model-Based Simulation Analysis on the Effects of Social Distancing Policy of the COVID-19 Epidemic," *International Journal of Environmental Research and Public Health*, vol. 18, no. 21, pp. 1-17, 2021.

PUBLICATIONS (KCI)

1. Hee-Mun Park, Hak-Jong Joo, Kyung-Min Seo, and Young Kyu Choi*, "Design and Implementation of Interface System for Swarm USVs Simulation Based on Hybrid Mission Planning," *Journal of the Korea Society for Simulation*, vol. 31, no. 3, pp. 1-10, (2022).
2. Bok-Ju Lee, Hee-Mun Park, Yong-Hwan Kwon, Kyung-Ah Han, and Kyung-Min Seo*, "Development of Real-Time Scheduling System for OHT Mission Planning," *KIPS Transactions on Computer and Communication Systems*, vol. 10, no. 7, pp. 205-214, (2021).
3. Hee-Mun Park, and Jong-Dae Jung*. "Sound source localization method based on deep neural network." *Journal of IKEEE*, vol.23, no.4 pp. 1360-1365, (2019).

CONFERENCES

1. 박희문, 서경민, "해양 무인체계의 효율적인 동적 경로생성을 위한 시뮬레이션 기반 개선된 DWA 알고리즘 연구," 한국시뮬레이션학회 2023년 추계학술대회, Cheongju, Korea (Dec. 2023) – Oral.
2. 박희문, 장미, 오준, 김용재, 나승규, 박범준, 서경민, "함정의 감시정찰을 위한 항적 데이터 기반 경로계획," 한국시뮬레이션학회 2023년 춘계학술대회, Seoul, Korea (Jun. 2023) – Oral.
3. 박희문, 서경민, "군집 무인수상정의 교전 시뮬레이션을 위한 실시간 연동 인터페이스 설계 및 구현," 한국군사과학기술학회 2022년 종합학술대회, Jeju, Korea (Jun. 2022) – Oral.
4. Hee-Mun Park and Kyung-Min Seo, "Interface system development for mission planning of unmanned surface vehicles," *The 9th International Conference on Robot Intelligence Technology and Applications*, Daejeon, Korea (Dec. 2021) – Oral.
5. 박희문, 장미, 정현주, 김용재, 최성, 서경민, "함정체계 HILS 환경 구축을 위한 3차원 데이터 가시화 SW 개발," 한국시뮬레이션학회 2020년 학술대회, (Dec. 2020) – Oral.
6. 박희문, 정종대, "딥러닝 기반 음원추적 기법," 한국로봇종합학술대회, Pyeongchang, Korea (Jan. 2020) – Oral.

AWARDS AND HONORS

- 한국시뮬레이션학회 2023 추계학술대회 우수논문상, 한국시뮬레이션학회, Cheongju, Korea (DEC. 2023).
- FACTORYHACK KOREA 2023, KIAT (Korea Institute for Advancement of Technology), Bundang, Korea (Feb. 2023).
- 산업인공지능 해커톤 장려상, Hanyang University 산업인공지능사업단, Ansan, Korea (Aug. 2022).

PROJECTS

- 군집 무인수상정 운용기술 개발 - 체계연동 및 성능평가 SW 개발, 국방과학연구소(ADD), Korea (Mar. 2020 ~ present).
- 로봇산업핵심기술 개발사업, KIAT (Korea Institute for Advancement of Technology), Korea (Mar. 2022 ~ present).
- 미래 기술 적응형 통합 수중감시 특화연구센터, KRIT (Korea Research Institute for defense Technology), Korea (Mar. 2022 ~ present).
- 산업인공지능 전문인력양성사업, MOTIE (Ministry of Trade, Industry and Energy), Korea (Mar. 2022 ~ Feb. 2024).
- 함정 데이터 융합 의사결정 지원체계, 대우조선해양, Korea (Mar. 2022 ~ Jun. 2023).
- 제조서비스 융합 인프라 활용 체계 고도화 연구, KITECH, Korea (Oct. 2021 ~ Dec. 2021).
- 군집제어 소프트웨어 국산화 및 검증용 디지털트윈 구축을 통한 OHT 상용화, 정보통신산업진흥원(NIPA), Korea (Jan. 2020 ~ Jun. 2021).
- 함정 데이터 3차원 가시화 SW 개발, 대우조선해양, Korea (Sep. 2020 ~ Dec. 2021).
- OHT의 작업 할당을 위한 실시간 스케줄링 알고리즘 개발, ㈜휴민텍, Korea (Feb. 2021 ~ June 2021).
- 모빌리티의 자율주행 및 군집제어를 위한 CPS 교육훈련장비, EduTech, Korea (May. 2021 ~ Jul. 2021).
- OHT의 작업 할당을 위한 실시간 스케줄링 알고리즘 개발, ㈜휴민텍, Korea (Feb. 2021 ~ June 2021).

SKILLS AND TECHNIQUES

- Python
- C++
- C#
- ROS(Robot Operating System)

SIMULATION SKILLS

- Unity engine
- DEVS (Discrete Event System Specification)