Minsuk Jang



Representative of XYZ Innovation

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Research Interest

- Digital Twin
- 3D Vision (LiDAR, NeRF)

Education

M.S in Engineering

2025.2 ~Current. KAIST, Daejeon (Computational Intelligence Laboratory)

 B.S in Civil & Environmental Engineering Al Intensive 2025.2. Yonsei University. Seoul (GPA: 95.7/100) Club: Yonsei Drone(2023~2024.12, executive)

Work Experience

- Stellarvision Inc. (2024.7~2025.2)
 - [RS 2410005313] 딥러닝 기반 고속 SAR 분석을 위한 Edge 컴퓨팅 장비 개발
 - Developing Digital Twin Method to Visualize Risk utilizing Drone, LiDAR
 - 3D visualization of SAR, stereo images

Patents

- "LiDAR 초소형 모바일 매핑 시스템 (LiDAR Micro Mobile Mapping System)" Minsuk Jang, KR Patent Application 10-2024-0130327 (2024)
- "산림 탄소 흡수량 분석 시스템 및 방법 (Forest Carbon Sequestration Analysis System and Method)" Minsuk Jang, KR Patent Application 10-2024-0153987 (2024)
- "무게중심 조정이 가능한 수직이착륙 무인항공기 (Vertically Takeoff and Landing Unmanned Aerial Vehicle with Adjustable Center of Gravity), Minjun Kim, Junkyoo Park, Jungha Wang, **Minsuk**Jang, KR Patent Application 10-2024-0177539 (2024)
- "디지털 표고모델로부터 고정밀 3D 모델을 생성하는 방법 (Method for Generating a High-Precision 3D Model from a Digital Elevation Model)", **Minsuk Jang**, Seungchul Lee, KR Patent Application 10-2024-0165631 (2024)
- "머신러닝 클러스터링 기반 위성영상 녹조 탐지 방법 (Machine Learning Clustering-Based Method for Algal Bloom Detection in Satellite Imagery)", **Minsuk Jang**, Seungchul Lee, KR Patent Application 10-2024-0165632 (2024)

Publications

- Minsuk Jang, Taehyeong Kim, Shiho Kim, VisionCycle: Automation Labeling Pipeline Utilizing Neural Radiance Fields,
 대한전자공학회 하계학술대회
- **Minsuk Jang**, Halim Lee, Jiwon Seo, *Validating NeRF-Generated Point Clouds: A Comparative Study with KITTI Dataset for Accurate 3D Scene Reconstruction*, 한국항행학회 추계학술대회
- Taehyeong Kim, **Minsuk Jang**, Shiho Kim, A method for Real Time Target Association in Smart Vessel's surround Camera System Using Geometric Relationships and SIFT Feature Point Detection, 대한전자공학회 하계학술대회

Awards & Honor

대상, 제주 위성데이터 경진대회 (2024.9), 제주도청

Machine learning-based green algae clustering pipeline, Jeju Governor's Award

최우수상, 연세대학교 교내창업 학내 데모데이 (2024.10), 아산나눔재단

Forest survey automation service using drones and 3D vision

서울시장상, 서울시 드론 활용 경진대회 (2024.12), 서울특별시

Measures to build a forest non-forest carbon monitoring system using digital twin-based drones

공학교육혁신센터장상, 연세대학교 수업 성과물 경진대회 (2024.7), 연세대학교 공학교육혁신센터

Mobile LiDAR Scanner for Digital Twin, DepthViz

우수상, 융복합적 사회문제 해결 경진대회 (2024.1) 연세대학교 사회과학대학

Time-series analysis of the extent to which the presence of universities affects the development of cities

우수상, 경기도 ESG 해커톤 (2023.5), 경기도청

Nonprofit foundation establishment project, social dining for developmentally disabled people

우수상, 학생참여 아이디어 경진대회 (2023. 7), 연세대학교

Establishment of an ESG evaluation committee on campus

4위, AI 드론 챌린지 (2024.5), 제 2 작전사령부, 인투스카이

Flight plan for optimal landing point

장려상, 토목구조물 경진대회, (2024.12), 대한토목학회

Smart city introducing a water-cooled data center benchmarked by Project Natick

Research Experience

Hyundai Motor Company

(2023.12 ~ 2024. 6) Undergraude Research Intern Scholarship

Seoul National University, ARIL (Autonomous Robot Intelligence Laboratory)

• (2023.12 ~ 2024. 2), Undergraduate Intern

Seoul National University, VI Lab (Vehicle Intelligence Laboratory)

• (2024. 6 ~ 2024. 9), Undergraduate Intern

Yonsei University, Intelligent Unmanned Systems Labortory

(2024. 9 ~ 2024. 12), Graduate Thesis Research

Skills

С

Python

ROS

CloudCompare

QGIS

Blender

Revit

Language

Korean (Native)

English (Fluent), TOEIC 960(2023.08.27),

Other Project