

Jongha Kim

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<https://hytric.github.io>



EDUCATION

Feb. 2019 ~ Present	Inha University Department of Electronic Engineering <i>Bachelor Student</i> GPA: 3.99 / 4.5	Incheon, Korea
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RESEARCH INTERESTS

- Generative model
- Video synthesis
- Conditional diffusion

PROJECTS

- Korean Audio unit translation : Multilingual hubert, transformer and vocoder, ECE Capston design, Korea / Unit inference and translate part training (Sep. 2024 ~ Present)
- Scene graph to video generation with diffusion, Machine Intelligence Lab, Korea (Aug. 2024 ~ Present)
- Analysis and Q&A on South Korean Economic Articles : Kr LLM finetuning and data preprocessing, 2024 Inha Artificial Intelligence Challenge, Korea (Jul. 2024 ~ Aug. 2024)
- Global Wildfire Detection Challenge: TransUNet, Attention U-Net, AI spark Challenge, Korea (Mar. 2024 ~ Mar. 2024)
- Model Ensemble VIT-SSD : Vision transformer and Single shot detection., ECE Deep Learning, Korea (Nov. 2023 ~ Dec. 2023)
- Real-time Computer Vision using AWS, raspberri pi, Hanium ICT, Korea (Mar. 2023 ~ Aug. 2023)
- Vision based Automous Human Following Wheeled Mobile Robot, FVE Alpha , Korea (Sep. 2022 ~ Dec. 2022)
- Future Vehicle Project(SLAM & Navigation) Roadmap, IESL, Korea (Sep. 2022 ~ Dec. 2022)
- Startup : Product Development and Branding for Pottery and Tea Farms, Gyeonggi Content Agency, Korea / 20 million won funding, business (Jan. 2023 ~ Jul. 2023)
- Startup : Local Catfish Farm Collaboration Project: Development of Retort Fish Soup Kit, Ministry of the Interior and Safety, Korea / Achieved 710%, 3.5 million won (Jul. 2023 ~ Aug. 2023)

CONFERENCES

1. Jang Ji-hye, Lee Young-jun, Heo Ji-won, Kim Jong-ha, "Development of an ROS-based Environmental Perception and Decision-making System for Indoor Autonomous Mobile Robots", Korean Society of Automotive Engineers, Jeju, Korea (Oct. 2022) - Poster

RESEARCH EXPERIENCES

- Research Intern at Inha University, Machine Intelligence Lab , Korea (Jan. 2024 ~ Present) / Video synthesis , Scene graph to video generation, long video generation with diffusion
- Research Intern at Inha University, Intelligence Embedding System Lab (IESL), Korea (Jul. 2022 ~ Dec. 2022) / Computer Vision, Robotics and Autonomous Driving

AWARDS AND HONORS

- Academic Excellence Scholarship, Inha University, Korea (Mar. 2024)
- Awarded the Encouragement Prize for the Convergence Project in the 2022-2 Semester, Inha University, Korea (Dec. 2022)

SKILLS AND TECHNIQUES

- Python / Linux / C / C++
- Pytorch (lightening) / Tensorflow
- HTML, CSS / Django (backend framework) / Nginx (reverse proxy server)

GITHUB

- <https://github.com/hytric>
- https://hytric.github.io/project/Audio2Video_proposal/
- https://hytric.github.io/project/SG2Video_proposal/
- <https://hytric.github.io/project/KoreanMultilingualTraining/>
- <https://github.com/hytric/vit-ssd>
- <https://github.com/hytric/Wildfire-detection>
- https://hytric.github.io/project/ksae_poster/
- https://hytric.github.io/project/alpha_poster/