YEONGTAK OH

Ph.D Candidate
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PERSONAL INFORMATION

Birth: Republic of Korea *Dec 19th 1996*
Nationality : Korean
Language : First Language Korean, Fluent in English
Military Service Status : Discharged

EDUCATION

Seoul National University *Sep 2022 - Current*
Department of Electrical and Computer Engineering
Ph.D Candidate
Advisor : Prof. Sungroh Yoon

Seoul National University *Sep 2018 - Aug 2020*
Master of Mechanical Engineering
Advisor : Prof. Byeng D.Youn
Thesis : Motion-Adaptive Few-Shot Fault Detection Method of Industrial Robot Gearboxes via Residual Convolutional Neural Network

Seoul National University *Mar 2014 - Aug 2018*
Bachelor of Mechanical and Aerospace Engineering
Advisor : Prof. Byeng D.Youn
Thesis : Wave Localization and Energy Harvesting Using a Defect Mode of Elastic Metamaterials in Low Frequency Range

Chungnam Science High School *Mar 2012 - Feb 2014*

RESEARCH INTERESTS

2D/3D Generative Models, Post-Training, Test-Time Adaptation, Multi-Modal Language Model

INTERNATIONAL JOURNAL

1. **Y Oh,**. S Lee, U Hwang, S Yoon, On Mitigating Stability-Plasticity Dilemma in CLIP-guided Image Morphing via Geodesic Distillation Loss .
International Journal of Computer Vision (IF: 11.6), Nov 2024
2. **Y Oh,**. Y Kim, K Na, B D Youn, A Deep Transferable Motion-Adaptive Fault Detection Method for Industrial Robots Using a Residual Convolutional Neural Network.
ISA Transactions (IF: 5.468), Nov 2021
3. S Khalid, W Lim, H Kim, **Y Oh**, B Youn, H Kim, Y Bae, Intelligent Steam Power Plant Boiler Waterwall Tube Leakage Detection via Machine Learning-Based Optimal Sensor Selection.
Sensors (IF: 3.576), Nov 2020

INTERNATIONAL CONFERENCE

1. **Y Oh***, J Choi*, Y Kim, M Park, C Shin, S Yoon, ControlDreamer: Blending Geometry and Style in Text-to-3D *BMVC, 2024,* **poster**
2. **Y Oh***, J Lee*, J Choi, D Jung, U Hwang, S Yoon, Efficient Diffusion-Driven Corruption Editor for Test-Time Adaptation *ECCV, 2024,* **poster**
3. **Y Oh**, J Kim, System Design and Implementation of Multi-legged Spider Robots for Landmine

Detection in the Demilitarized Zone *UR, 2021,* **oral**

4. **Y Oh**, Y Kim, K Na, B D Youn, A Novel Fault Detection Method of Industrial Robots Using Motor Current Signals via Convolutional Neural Network *IMCR, 2019,* **oral**

INVITED TALKS

ControlDreamer and Beyond: Post-Training Multi-View Generative Models for 3D Generation

NVIDIA, Feb 2025

EXPERIENCE

Research Intern *Jan 2022-* Aug 2022
Seoul National University, Data Science and Artificial Intelligence Lab
Continual Learning
Advisor : Prof. Sungroh Yoon

Military Service *Aug 2020- Jan 2022*
Location: Korea Military Academy, AI R&D Center
Position: Military Science and Technology Researcher, Republic of Korea Army

AWARDS AND HONORS

Best Poster Awards: KSPHM, Domestic Conference *2019 Fall*
Best Paper Awards: ICMR, International Conference *2019 Fall*
Best Project Awards: Advanced Composite Material based on Seashell Structures *2017 Fall*

TEACHING ASSISTANT

Machine Learning Fundamentals and Applications, Seoul National University *2024 Spring*

Solid Mechanics, Seoul National University *2020 Spring*

SKILLS

Programming Languages Python(Pytorch, Tensorflow), MATLAB
Languages English