

YEONGTAK OH

Ph.D Candidate

Email: oyt9306@gmail.com

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 Electronics 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, Test-Time Adaptation, Multi-Modal Agent

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
Languages

Python(Pytorch, Tensorflow), MATLAB
English