Mohsen Yavartanoo

PERSONAL DATA

ACADEMIC EMAIL: mvavartanoo@snu.ac.kr NON-ACADEMIC EMAIL: myavartanoo71@gmail.com

PERSONAL PAGE: LINK GOOGLE SCHOLAR: LINK GITHUB: LINK

ADDRESS: 08826 | #508 Bldg. 133, 1 Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea.

RESEARCH INTERESTS

Computer Vision Deep Learning 3D Vision Self-Supervised Learning

EDUCATION

- · 2019 present Ph.D. in Electrical and Computer Engineering, Seoul National University, Seoul, South Korea.
- 2017 2019 M.Sc in Electrical and Computer Engineering, Seoul National University, Seoul, South Korea.
- 2011 2016 B.Sc in Mathematical Science, Sharif University of Technology, Tehran, Iran.
- · 2007 2010 Diploma in Mathematics and Physics, Shahid Babaie (National Organization for Development of Exceptional Talents (NODET)), Qazvin, Iran.

PUBLICATIONS

PolyNet: Polynomial Neural Network for 3D Shape Recognition with 2021 PolyShape Representation. (Accepted in 3DV2021) Mohsen Yavartanoo, Shih-Hsuan Hung, Reyhaneh Neshatavar, Yue Zhang,

Kvoung Mu Lee

myavartanoo.github.io/polynet/

3DIAS: 3D Shape Reconstruction with Implicit Algebraic Surfaces. (Ac-2021 cepted in ICCV2021)

Mohsen Yavartanoo, JaeYoung Chung, Reyhaneh Neshatavar, Kyoung Mu Lee myavartanoo.github.io/3dias/

SPNet: Deep 3D Object Classification and Retrieval using Stereographic 2018 Projection. (Accepted in ACCV2018) Mohsen Yavartanoo, Euyoung Kim, Kyoung Mu Lee

PROJECTS

- CAD learning for manufacturing processes i.g., cutting, drilling, etc., and cost prediction.
- · Point cloud registration and template matching for volume calculation from multiview captured RGBD data by iPhone depth camera.
- · Vehicle, pedestrian, and traffic sign detection and recognition from point clouds for autonomous driving cars.

TEACHING EXPERIENCE

- Fall 2020 Seoul National University, Teaching Assistant, Department of Electrical and Computer Engineering, Introduction to Computer Vision.
- Fall 2015 Sharif University of Technology, Teaching Assistant, Department of Mathematics and Computer Science, **Image Processing**.
- Fall 2014 Sharif University of Technology, Teaching Assistant Department of Mathematics and Computer Science Introduction to Linear Algebra.
- Teaching Mathematical and Computer Science Olympiad for high-school students.

AWARDS AND SCHOLARSHIPS

- Graduate Scholarship for Excellent Foreign Students (GSFS) at SNU Fall 2019 (for two years)
- SNU Global Scholarship for Spring 2017 (for one year)
- Accepted in the first round of Iranian Mathematical Olympiad (IMO) 2009

OTHER ACADEMIC EXPERIENCES

- 2022 Invited to serve as a reviewer for CVPR2022.
- 2021 Invited to serve as a reviewer for ICCV2021.
- 2012-2016 Sharif University of Technology, Algorithms and Problem Solving Lab:
 - Summer & Winter Schools on Mathematics and Computer Science.
- 2011-2013 Member of Math Scientific and Extracurricular Group, Department of Mathematics and Computer Science, Sharif university of technology
- Sharif University of Technology, Department of Mathematics and Computer Science, Reading Group:
 - Winter 2014 Machine Learning
 - Fall 2013-Winter 2014 Category Theory
 - Spring 2013-Summer 2013 Computational Topology
- 2014 Editor of Sharif Mathematical Journal, Department of Mathematics and Computer Science, Sharif University of Technology

LANGUAGES

PERSIAN: Native ENGLISH: Fluent KOREAN: Basic ARABIC: Basic

COMPUTER SKILLS

Python, Matlab, PyTorch, TensorFlow, Houdini, Blender, LTEX

OTHER INTERESTS AND ACTIVITIES

Tar & SeTar (Traditional music instruments) Climbing & Tennis Watching Movies & Playing Video Games