Yimeng Li

Education

2016-Present	**PhD**, Computer Science George Mason University, Fairfax, VA, USA **Research Interests:** Robotics, Computer Vision
2016-2018	**MS**, Computer Science George Mason University, Fairfax, VA, USA
2010-2014	**BE**, Software Engineering East China Normal University, Shanghai, China

Experiences

2016-Present	**Lab Research** Computer Vision and Robotics Lab Department of Computer Science, George Mason University
2021 Summer	**Research Intern** UII America, Inc
2020 Summer	**Research Intern** Honda Research Institute US, CA
2018 Summer	**Research Intern** AFRL Mathematical Modeling and Optimization Institute, FL
2016-2018	**Graduate Teaching Assistant** CS112: Introduction to Programming - Python Department of Computer Science, George Mason University

Research Projects

2018-Present	**Robot Navigation on Simulated Environments** Using deep learning techniques to train a robot to do short-range and long-range visual navigation.
2021 Summer	**Multiview Human Pose Estimation** Estimate important human joint locations in the world frame using images taken by cameras pre-setup at 4 viewpoints.
2020 Summer	**BEV Object Detection from Stereo** Doing BEV object detection on KITTI, using rgb image and frontal depth image and aiming at adapting to multiple 2d object detection input and different depth estimation methods.
2019 Summer	**Guard Rail Detection on Building Images** Doing guard rail detection on high-resolution images of buildings under construction. This project motivates from automatic safety inspection for building construction.

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Paper

2021 **Y. Li**, J. Kosecka
"Uncertainty Aware Proposal Segmentation for Unknown Object Detection"
WACV 2022 DNOW Workshop

2020 **Y. Li**, J. Kosecka
"Learning View and Target Invariant Visual Servoing for Navigation"
ICRA 2020

Preprints

2020 G. Georgakis, **Y. Li**, J. Kosecka
"Simultaneous Mapping and Target Driven Navigation"
arXiv:1911.07980

Computer Skills

PL C/C++, Python, Java
Other OpenCV, PyTorch, Matlab

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