Junha Roh

https://rohjunha.github.io
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RESEARCH INTERESTS

Robotics, Computer Vision, Autonomous Driving, Vision-language Navigation

EDUCATION

University of Washington (Sep 2016 - Aug 2022)
Graduate student in Computer Science and Engineering
Advisor: Dieter Fox and Ali Farhadi

Seoul National University (Mar 2011 - Feb 2013)
M.S. in Electrical Engineering and Computer Science
Advisor: Kyoung Mu Lee

Seoul National University (Mar 2007 - Feb 2011)
B.S. in Electrical and Computer Engineering, *Summa Cum Laude*

APPOINTMENTS

Third Wave Automation (Union City, CA) - Software Engineer   Oct. 2022 - Present

Waymo (Mountain View, CA) - Research Intern   Sep. 2021 - Jan. 2022
Worked on neural architecture search for behavior prediction models.

NEC Labs America (San Jose, CA) - Research Intern   Jun. 2021 - Sep. 2021

Waymo (New York, NY) - Research Intern   Sep. 2020 - Dec. 2020
Worked on behavior prediction for autonomous vehicle using GraphNet.

PUBLICATIONS

Junha Roh, Karthik Desingh, Ali Farhadi, and Dieter Fox,
LanguageRefer: Spatial-Language Model for 3D Visual Grounding, CoRL 2021

Junha Roh*, Christoforos Mavrogiannis*, Rishabh Madan*, Dieter Fox, and Siddhartha S. Srinivasa,
Multiple Topologies Prediction for Navigation at Unsignalized Intersections, CoRL 2020

Junha Roh, Chris Paxton, Andrzej Pronobis, Ali Farhadi, and Dieter Fox,
Conditional Driving from Natural Language Instructions, CoRL 2019

Junha Roh, Hwasup Lim, and Sang Chul Ahn,
A Fast TGV-l^1 RGB-D Flow Estimation, ISVC 2014 (**oral**)

Junseok Kwon, **Junha Roh**, Kyoung Mu Lee and Luc Van Gool,
Robust Visual Tracking with Double Bounding Box Model, ECCV 2014

Junha Roh, Dong Woo Park, Junseok Kwon and Kyoung Mu Lee,
Visual Tracking using the Joint Inference of Target State and Segment-based Appearance Models,
APSIPA 2013 (**oral**)

HONORS AND AWARDS

Samsung Scholarship, $50,000 per year (2016 - 2021)
Fulbright Scholarship, $70,000 for two years (gratefully declined, 2015)
Kwanjeong Educational Foundation Scholarship for Graduates, $9,000 per year (2011 - 2012)
Commendation from Seoul National University Engineering Alumni Association (2011)
Seoul National University Foundation for ECE Scholarship, $3,500 (February 2011)
National Science & Engineering Undergraduate Scholarship, $6,000 per year (2007 - 2010)