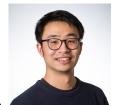
Zimin Xia

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Address: Delft, The Netherlands Homepage: https://ziminxia.github.io/

Google Scholar: https://scholar.google.com/citations?user=W17NqjoAAAAJ&hl=en



RESEARCH INTERESTS

Visual Localization, Ground-to-Aerial Image Matching, 3D Computer Vi-

sion, Representation Learning, Self-Supervised Learning

EDUCATION

Delft University of Technology, The Netherlands – Oct. 2019 - (EXP) Jan. 2024

Ph.D. student, topic: Efficient Deep Learning for Localization and Mapping

Supervisors: Dr. Julian F. P. Kooij , Prof. Dariu M. Gavrila Collaborate with TomTom, Amsterdam, The Netherlands

Dutch Research Council funded project: Efficient Deep Learning

University of Stuttgart, Germany

Oct. 2016 - Jul. 2019

Master of Science, Geomatics Engineering Master Thesis at Carl Zeiss AG, Germany:

Stereo Reconstruction of Human Faces with Deep Learning

Wuhan University, China

Sep. 2012 - Jun. 2016

Bachelor of Science, Geodesy and Geomatics Engineering

SELECTED PUBLICATIONS Convolutional Cross-View Pose Estimation

Zimin Xia, Olaf Booij, Julian F. P. Kooij

(Under revision at IEEE Transactions on Pattern Analysis and Machine Intelligence)

Linked to: Paper, Code

SliceMatch: Geometry-guided Aggregation for Cross-View Pose Estimation

Ted Lentsch*, Zimin Xia*, Holger Caesar, Julian F. P. Kooij

*: Equal contribution

Conference on Computer Vision and Pattern Recognition (CVPR), 2023

Linked to: Paper, Code, Video

Visual Cross-View Metric Localization with Dense Uncertainty Estimates

Zimin Xia, Olaf Booij, Marco Manfredi, Julian F. P. Kooij European Conference on Computer Vision (ECCV), 2022

Linked to: Paper, Code, Video

Cross-View Matching for Vehicle Localization by Learning Geographically

Local Representations

Zimin Xia, Olaf Booij, Marco Manfredi, Julian F. P. Kooij IEEE Robotics and Automation Letters (IEEE RA-L), 2021

Linked to: Paper, Code, Video

Geographically Local Representation Learning with a Spatial Prior for Vi-

sual Localization

Zimin Xia, Olaf Booij, Marco Manfredi, Julian F. P. Kooij

European Conference on Computer Vision, 2020, Workshop on Map-based Localization

for Autonomous Driving, Oral Presentation

Linked to: Paper, Code, Video

ACADEMIC Attended International Computer Vision Summer School (ICVSS) 2022 ACTIVITIES

Reviewer for T-PAMI, T-RO, RA-L, ICRA, IV

TEACHING Machine Learning for Robotics 2020 - 2023

ASSISTANT 3D Robot Vision 2020

Intelligent Vehicles 2019

MSC THESIS Cross-View Camera Pose Estimation By Matching Local Features in 3D

SUPERVISION Sviatoslav Voloshyn Oct. 2022 - Aug. 2023

Improving Cross-View Matching with Self-Supervised Learning

Jianfeng Cui Jan. 2022 - Jan. 2023

SliceNet: Street-to-Satellite Image Metric Localization using Local Feature

Matching

Ted de Vries Lentsch Nov. 2021 - Oct. 2022

LANGUAGE English: Professional proficiency

German: Elementary proficiency

Chinese: Native

HOBBIES In my free time, I enjoy reading and doing sports. I am passionate about playing

basketball and swimming. During my high school years in China, I was a national

second-grade swimmer.