

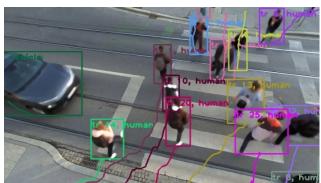
Team Possegger

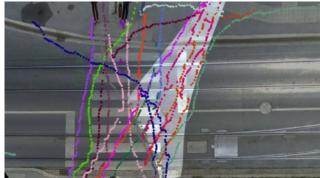
Institute of Visual Computing Graz University of Technology



Road User Trajectory Consistency in Multi-View Surveillance Systems

Bachelor Thesis / Seminar Project





Objective:

This project aims to advance traffic safety for vulnerable road users through the integration of multi-camera surveillance systems and supporting data-driven Smart City planning.

Your work will involve addressing core visual computing tasks, employing both classical computer vision methods and advanced Al/deep learning approaches to facilitate safer and smarter urban mobility solutions.

Qualifications:

- Experience in Python
- Interest in Computer Vision and Machine Learning
- Knowledge of deep learning frameworks is advantageous

To be investigated:

• YOLOv9:

https://docs.ultralytics.com

• DeepSORT:

https://github.com/nwojke/deep_sort

- SAMv2: https://ai.meta.com/sam2
- Smart Visual Surveillance System (Paper): DOI:10.1109/AVSS56176.2022.9959562

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