Team Possegger
Institute of Visual Computing
Graz University of Technology

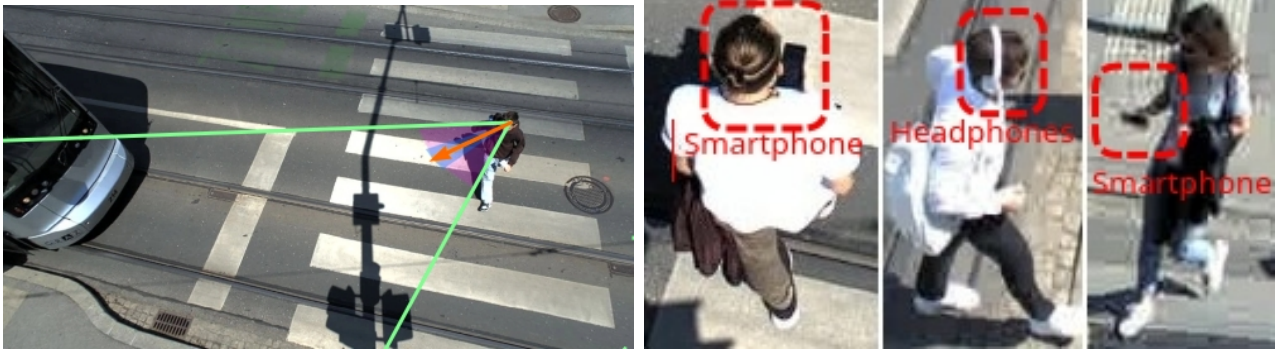**INSTITUTE OF VISUAL COMPUTING**

Pedestrian Attention and Risk Behavior at Urban Intersections

Bachelor Thesis / Seminar Project

Objective:

This project focuses on assessing traffic risks through pedestrian behavior analysis, leveraging the integration of multi-camera surveillance systems. *Is the pedestrian aware of an approaching vehicle? Do distractions such as looking at a smartphone or wearing headsets reduce situational awareness?* Your work will contribute to addressing core visual computing tasks, applying both classical computer vision techniques and advanced AI/deep learning approaches to better understand distracted human behavior in road environments.

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
- MMPose:
  https://github.com/open-mmlab/mmpose
- 3D Gaze:
  https://github.com/kyotovision-public/dynamic-3d-gaze-from-afar

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