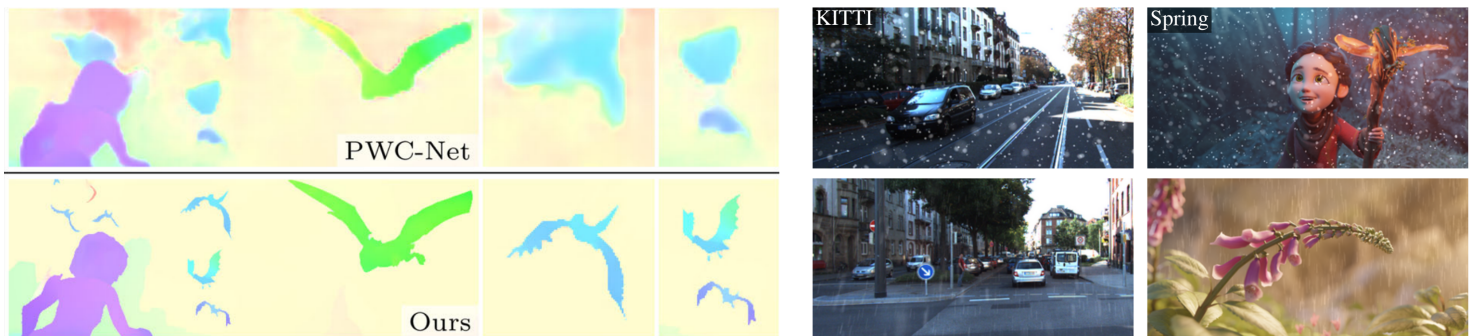


Recent Advances in Computer Vision

Advanced Seminar (Hauptseminar), Summer Term 2025



Left: High Accuracy Multi-Scale Optical Flow Estimation (Jahedi et al. IJCV 2024),
Right: Adversarial Weather Attacks (Schmalfuss et al. ICCV 2023).

Description: In recent years there has been enormous progress in the field of computer vision as well as in the closely related areas of image processing and computational photography. Both the quality of the algorithms and the capabilities of the hardware have been improved steadily. This seminar deals with some of the most interesting works that have been published in recent years at important international conferences and in leading scientific journals.

The list of subjects includes

- Optical Flow
- Scene Flow
- Stereo / Stereo Conversion
- Neural Networks
- Adversarial Attacks
- Adversarial Defenses

Prerequisites: A mandatory requirement is the attendance of the lecture Computer Vision or the lecture Correspondence Problems in Computer Vision. Papers and talks are in English.

First Meeting: will be announced via e-mail after the registration

Contact: For further questions please contact Prof. Bruhn (bruhn@vis.uni-stuttgart.de).