OLIVER HAHN

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EDUCATION

Ph.D. Student in Computer Science, Technical University of Darmstadt — Since Oct 2022
Advised by Prof. Stefan Roth (Visual Inference Lab)
Topic: Scene Understanding with limited Supervision

M.Sc. Computational Engineering, Technical University of Darmstadt — Nov 2018 - Apr 2022
Incl. Exchange Semester at Tongji University Shanghai [Fall 2019]
Focus: Machine Learning & Computer Vision

M.Sc. Mechanical Engineering, Technical University of Darmstadt — Sep 2018 - Mar 2023
Focus: Mechatronics

B.Sc. Mechanical Engineering, Technical University of Darmstadt — Oct 2014 - Sep 2018
Focus: Mechatronics

PUBLICATIONS

Sherwin Bahmani*, **Oliver Hahn***, Eduard Zamfir*, Nikita Araslanov, Daniel Cremers and Stefan Roth. "Semantic Self-adaptation: Enhancing Generalization with a Single Sample". in Proc. TMLR July. 2023.

Daniel Schöneberger and **Oliver Hahn**. "Electrodynamic Linear Actuator with Twin Coil". DPMA Patent: DE 10 2021 113 012 3. 2022.

TEACHING

Computer Vision I, Teaching Assistant — Fall 2022

PROFESSIONAL EXPERIENCE

Master's Thesis, Visual Inference Lab - TU Darmstadt — Sep 2021 - Mar 2022
Multimodal Data Augmentation for Image Captioning
Advisors: Shweta Mahajan, Prof. Stefan Roth

Student Research Assistant, Visual Inference Lab - TU Darmstadt — Apr 2021 - Aug 2021
Temporal Consistency for Dense Unsupervised Video Segmentation
Advisors: Nikita Araslanov, Prof. Stefan Roth

Student Research Assistant, Institute for Mechatronic Systems - TU Darmstadt — Nov 2018 - Okt 2020
Multi-Objective Optimization of Electrical Machines
Advisors: Daniel Schöneberger, Prof. Stephan Rinderknecht

Internship, Bosch - Munich — Mai 2018 - Oct 2018
Optimization of Component Topologies in Electrical Machines
Advisor: Christian Boie, Ph.D.

Bachelor's Thesis, Institute for Mechatronic Systems - TU Darmstadt — Oct 2017 - Apr 2018
Development of an Electrodynamic Linear Actuator for Electrified Drivetrains
Advisors: Daniel Schöneberger, Prof. Stephan Rinderknecht

SKILLS

Programming: Python [PyTorch, NumPy, OpenCV, NLTK], Matlab, Java, Git, LaTeX, HTML/CSS/JavaScript, Bash, Linux

Languages: **German** - Native, **English** - Fluent [UNIcert C1], **Chinese** - Basic [UNIcert B1], **French** - Basic, **Polish** - Native