



## JOIN US NOW – turn invention into innovation!

The Adrive Living Lab, founded in 2017, is a young and innovative institution of the University of Applied Sciences Kempten and is part of the Research Center Allgäu. Advanced Driving Assistance Systems and Autonomous Driving are the focus of our research.

In order to realize a novel approach to create photorealistic, synthetic images within a research project, we need your support. The goal is to build on existing Image-to-Image Translation approaches and increase their efficiency. Image-to-Image Translation aims to learn useful mappings between images. It can be applied to a wide range of applications, where we are especially interested in sim-to-real transfer as well as daytime, weather and season transfer (e.g. day-to-night, sunny-to-rainy, winter-to-summer).

### **Master's Degree Candidate (m/w/d)**

### **Fast Unsupervised Image-to-Image Translation: Design, Implementation and Validation of a Deep Learning Approach**

#### **Your Tasks**

- Comprehensive literature research on the state of the art in Image-to-Image Translation
- Reading in suitable benchmark datasets
- Selection of metrics for comparison with other approaches
- Design and implementation of your own Deep Learning model
- Training and validation of your model

#### **You**

- are studying a master's degree in computer science or similar fields
- have a high interest in scientific work
- convince through a structured, analytical and independent working method
- can independently implement test or prototype applications
- have good programming skills in Python
- have experience with Deep Learning frameworks (PyTorch and/or Tensorflow)
- have solid knowledge in Deep Learning and Machine Learning
- optionally have knowledge in the following areas: Unsupervised Learning, Image-to-Image Translation

#### **We**

- offer you the opportunity to participate in research projects in the field of Deep Learning for Advanced Driving Assistance Systems and Autonomous Driving and to contribute your passion for the topic
- would like to give you a comprehensive insight into our work
- give you an individual supervisor

**Interested?** We are looking forward to hearing from you. If you would like to apply directly or have any questions, please contact us

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