The Topic

- You will perform state-of-the-art research on multimodal anomaly detection benchmarks with camera and lidar data.
- Based on the CARLA simulation engine, you will develop "normal" and "abnormal" scenarios that include anomalies, especially unknown objects and unknown driving behaviors.
- You will perform research on representation spaces and provide ground truth in the 3D voxel space.
- Your benchmark will follow high quality standards, as set by popular benchmarks, such as KITTI or Cityscapes.

What We and I Offer

- You get exciting insights into our research and gain valuable practical experience.
- We use the latest hardware and software. Together with us you work in first-class laboratories (on-site or remotely).
- Regular and extensive support: Weekly 1:1 meetings, bi-weekly student group meetings, monthly 1:1 strategy meetings.
- Collaboration with other students to get tips, learn together, and fix issues quickly.
- High-quality theses will be published on KITopen, with the code on GitHub.
- We aim to publish this work in an IEEE paper with shared first authorship.

Application

- Start: Immediately.
- Shoot me an e-mail at daniel.bogdoll@kit.edu with your CV, grades, and a few sentences why you are interested. No cover letter necessary 😊.