Informatik 11
Embedded Software

RWTH AACHEN UNIVERSITY

Student Assistant Thesis

Extend an existing map matcher to include support for lane changes

Your Task

- Study how lane changes are handled in state-of-the-art map matchers for vehicle localization.
- Extend an existing map matcher to detect and manage lane changes using insights from the literature review.
- Integrate the improved map matcher into an existing Robot Operating System 2 (ROS 2) network for sensor data fusion in the Cyber-Physical Mobility Lab (CPM Lab).

Your Profile

- Proficiency in Python or similar programming languages.
- Demonstrated reliability, motivation, and the ability to work independently.
- Preferred but not mandatory: Experience with Ubuntu and map matching.

Our Offer (if you apply for a student assistant position, not a thesis)

- Immediate start date, with an initial 3-month duration, and the possibility and desire for extension.
- Regular weekly working hours range from 7 to 9 hours.
- Candidates with a bachelor's degree are welcome but it is not mandatory.

Contact

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Thinking the Future
Zukunft denken

Apply Now!