Sensor fusion for advanced autonomous navigation

Summary

Ph.D position in Autonomous vehicles research group to participate in designing and developing self-driving vehicles with a special focus on the sensors. The position expects practical knowledge and software development skills as well as electrical and mechanical engineering experience. You can work in most innovative projects within a motivated international team.

Research field:	Mechanical engineering
Supervisor:	Prof. Dr. Raivo Sell
Availability:	This position is available.
Offered by:	School of Engineering
	Department of Mechanical and Industrial Engineering
Application deadline:	Applications are accepted between June 01, 2020 00:00 and July 03, 2020 23:59 (Europe/Zurich)

Description

The research is focusing on the following general topics:

* Autonomous driving sensors like lidars, radars, cameras and GNSS
* Sensor low-level integration with open-source autonomous driving software
* Sensor set definition for different use cases for AVs

More info about running projects and background can be found in research group homepage: autolab.taltech.ee

Responsibilities and tasks:

* Experiment with different sensor combinations and calibration for autonomous driving
* Designing and developing autonomous vehicle sensor systems and self-driving algorithms
* Teaching in robotics
* Participating research and development projects in Autonomous Vehicles research group

Qualifications

The applicants should fulfill the following requirements:

* Motivation, interest and experience of microcontrollers and software development
* Experience of designing electronic and mechanical systems
* General overview and understanding of working principles of sensors and robotics
* Good English and communication skills

Recommended:

* Knowledge and experience with Robot Operating System (ROS) and Autoware stack
* Knowledge and skills with model-based software development

To get more information or to apply online, visit https://taltech.glowbase.com/positions/59 or scan the the code on the left with your smartphone.