



PostDoc or PhD Position “Collaborative Robotics”

in the Research Training Group (RTG) “Integrity and Collaboration in Dynamic Sensor Networks (i.c.sens)”, funded by the German Research Foundation. This is a fixed-term position until May 31, 2021.

The RTG is dedicated to investigating techniques that can ensure the integrity of robotic systems, which closely interact with humans. In the future, collaborative sensor networks that can guarantee integrity will be core components of automated or autonomous robots, for example self-driving cars or robots in the context of “Industry 4.0”.

Major goals of the RTG are the development of new approaches using the analysis, integration and fusion of large quantities of spatial data (e.g. from cameras, laser scanners, GPS/IMU systems), the development of advanced navigation algorithms, using big data (e.g. MapReduce, Spark), learning frameworks (e.g. GPGPU based deep learning), and the design of dependable and distributed robotic systems. The candidate shall conduct research **in one of these areas** in collaboration with the PhDs in the RTG.

Desired Skills and Experience

We are looking for a candidate with a strong background in Computer Science, Geoinformatics, Geodesy, or Robotics. Knowledge in one of the areas: (i) parallel computing, machine learning, and optimisation, (ii) advanced analysis of navigation sensors and filtering, or (iii) system modelling and control theory is required. We also expect a very good command of the English language.

About the employer

We offer an attractive employment in a highly topical, relevant, and dynamic research area, which allows for an excellent qualification. The RTG provides a unique setting for interdisciplinary collaboration of experts in the fields of navigation, robotics, computer vision, control, geodesy, and geoinformatics.

Part-time employment can be allowed if required.

As an equal opportunities employer, Leibniz Universität Hannover intends to promote women and men in the context of statutory requirements. For this reason suitably qualified women are specifically invited to apply. Equally qualified applicants with disabilities will be given preferential treatment.

Please send your application with the usual documents and papers in electronic form to Katja Lohmann (lohmann@ife.uni-hannover.de).

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For further information, please contact Prof. Steffen Schön (schoen@ife.uni-hannover.de), who will be pleased to assist.