To strengthen our dedicated Autonomous Driving team in the research department Agents and Simulated Reality in Saarbrücken we are looking for multiple

**Researchers (m/f/d)**
full-time, initially limited to 2 years

The research department Agents and Simulated Reality, headed by Prof. Dr. Philipp Slusallek, develops innovative methods of Artificial Intelligence (AI), Visual Computing and High-Performance Computing. The team Autonomous Driving (AD), headed by Principal Researcher Dr. Christian Müller, conducts research on AI-based environment perception and trajectory planning for autonomous vehicles (Level 4+).

Your tasks include, but not limited to:

- Research, design and implementation of safe, efficient and innovative software stack for perception, prediction and control components of autonomous vehicles;
- Design and implementation of various driving policies, motion planning and trajectory prediction under uncertainty with the state of the art Bayesian deep learning and reinforcement learning algorithms;
- Design and implementation of trajectory prediction of multiple dynamic agents like pedestrian and bicyclists;
- Design and implementation of self-localization and mapping methods based on computer vision, LIDAR, RADAR and other sensors;

Your qualifications:

- Very good master or competitive degree (Bachelor) in computer science or a discipline with significant overlap with computer science and focus on AI;
- Good knowledge in the fields of machine learning, planning and multi-agent systems, and the willingness to familiarize yourself with the subjects quickly, sufficiently, and independently when needed;
- Solid understand of DNN, frameworks like TensorFlow, PyTorch, etc.
- Good knowledge of driving simulators, e.g. Carla, OpenDS, etc.
- Good proficiency in software engineering in Java, C++, Python;
- Excellent English language skills (speaking and writing);
- Independent, committed and highly team-oriented way of working;

Your benefits:

- Opportunity to participate in interdisciplinary AI research projects;
- Excellent industry contacts;
- An innovative, agile and professional working environment;
- If appropriate, opportunity to work towards a PhD in computer science;

We look forward to receiving your informative application documents and your earliest possible starting date!

Please send your application until 30.09.2019 via E-Mail to Dr. Oliver Keller oliver.keller@dfki.de.

The German Research Center for Artificial Intelligence (DFKI) is Germany's leading business-oriented research institution in the field of innovative software technologies based on artificial intelligence methods. In the international scientific community, DFKI ranks among the most recognized “Centers of Excellence” and currently is the biggest research center worldwide in the area of Artificial Intelligence.

The DFKI cooperates closely with national and international companies.

Severely disabled applicants and peers are given special consideration if they are equally suitable. The DFKI intends to increase the share of women in the field of science and therefore urges women to apply.