REINFORCEMENT LEARNING IN UNCERTAIN ENVIRONMENTS FOR AUTONOMOUS DRIVING

UMFELD

Autonomous agents need to act in uncertain and changing environments. Bayesian learning is a principled way to include uncertainties into the learning process. Training an agent to incorporate the uncertainty of the environment is a challenging research problem. At FZI we try to solve these problems in the context of autonomous driving. For this reason I am looking for two HiWIs.

Due to the current situation the HiWi jobs are remote jobs for now.

AUFGABEN

- Research on continuous learning and/or active learning based on bayesian deep learning
- Research on reinforcement learning for autonomous driving
- Implementation of training environments
- Implementation of reinforcement learning agents

WIR BIETEN

- The possibility to work on a topic with high practical relevance
- An interdisciplinary working environment and a pleasant working atmosphere
- Intensive support with frequent meetings if desired

WIR ERWARTEN

- Python and/or C++ experience
- Experience with deep learning frameworks (e.g. PyTorch, Tensorflow)
- Interest in bayesian deep learning/reinforcement learning
- Fluent in German or English

BEWERBUNG

Please send an informal email to joseph@fzi.de with your CV including relevant experience (e.g. github repository, kaggle profile, ...) and a list of your passed courses.

- Themen-Schwerpunkt: Sichere und intelligente Fahrzeuge
- Studiengänge: Informatik, Informationstechnik, Informationswirtschaft, Verwandte Studiengänge, Wirtschaftsinformatik
- Kontakt: Tim Joseph, joseph@fzi.de