Thesis (m/f/d)

Robotic Task Planning using Large Language Models

You are an enrolled student and looking for an exciting topic for your thesis? Join Sereact!

We are a young tech startup that aims to close the last automation gaps in warehouses and productions through our AI software for autonomous robotics.

Field of study
Computer Science, Information technology, Robotics and related studies

Tasks
- Investigate the applications of large language models, such as GPT-3, in robotic task planning and execution
- Analyze existing techniques and frameworks for integrating large language models with robotic systems
- Design and develop a robotic task planning framework that utilizes a large language model for natural language interaction and decision-making
- Implement the framework on a robotic platform and evaluate its performance in real-world scenarios
- Provide recommendations for enhancing the efficiency, adaptability and robustness of robotic task planning using large language models

Must have skills
- Python/C++ programming experience
- Experience with Deep Reinforcement Learning
- Hands-on experience working in a Linux environment
- Excellent communication and organizational skills
- Experience with PyTorch

Nice to have skills
- Knowledge of software development and version control using Git or similar
- Programming Record on Github or similar
- Experience working with ChatGPT

Sereact GmbH
Schockenriedstraße 17
70565 Stuttgart
www.sereact.ai

Apply now!
Send your application
(in German or English)
career@sereact.ai