UNIVERSITÄT PADERBORN

Paderborn University is a high-performance and internationally oriented university. Within interdisciplinary teams, we undertake forward-looking research, design innovative teaching concepts and actively transfer knowledge into society. As an important research and cooperation partner, the university also shapes regional development strategies. We offer our employees in research, teaching, technology and administration a lively, family-friendly and equal opportunity environment, a lean management structure and diverse opportunities. **Join us to invent the future!**

At the **Faculty of Computer Science, Electrical Engineering and Mathematics**, the Department of Electrical Engineering - Automated Control Group – offers a full-time position (100% of the regular working time), which will start at the earliest opportunity, as

Post-doctoral researcher (f/m/d)
(Salary level 13 TV-L)

We are looking for a post-doctoral researcher to develop safe, learning based control and navigation algorithms for autonomous aerial robots. Employment is fixed to three years and adheres to the legal regulations laid out in the WissZeitVG.

Position description and responsibilities:
- Research in learning-based control and navigation algorithms for autonomous robots
- Writing scientific papers for journals and conferences
- Contribution to teaching activities through control theory-related courses (usually 4 semester hours per week)
- Active contribution to the joint acquisition of third-party projects.

Your profile:
- Scientific university degree (Master)
- PhD degree in the field of control engineering, computer science, applied mathematics, or related areas
- Solid knowledge of machine learning and system and control theory
- Programming skills in C/C++ or Python
- Experience with Robot Operating System (ROS)
- Experience with robot simulation
- Very good command of English, both written and spoken
- A solid publication track record in peer-reviewed journals and conferences

We provide:
- An international group that seeks to push the boundaries of single and multi-agent robotic systems by leveraging autonomy towards smarter systems that will learn and interact with an environment.
- A new research lab with a high-precision motion capture ground-truth camera system and multiple GPU-based workstations for learning, control, and AI algorithm design.
- Work on highly relevant research topics and technologies.
- Personnel development through further training opportunities

Applications from women are particularly welcome and, in case of equal qualifications and experiences, will receive preferential treatment according to to state law (LGG), unless there are preponderant reasons to give preference to another applicant. Part-time employment is generally possible. Applications from disabled people with appropriate suitability are explicitly welcome. This also applies to people with equal opportunities in accordance with the German social law SGB IX.

Applications with complete documents (cover letter, CV with the full publication list, contact details of two references in a single PDF file: name_surname.pdf) should be sent via email with the subject "Postdoc in learning control" application" quoting **reference number 6579** by **August 16th 2024** to: erdal.kayacan@uni-paderborn.de.

Information regarding the processing of your personal data can be located at: https://www.uni-paderborn.de/en/zv/personaldatenschutz.

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