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!**

In the **Faculty of Computer Science, Electrical Engineering and Mathematics** at the Department of Computer Science **– Responsible AI for Biometrics –** the following position is to be filled as soon as possible

Research Assistant (f/m/d)

(Salary level according to 13 TV-L)

with 100 % of the regular working hours. This is a qualification position within the meaning of the Wissenschaftszeitvertragsgesetz (WissZeitVG), which serves to develop scientific competencies and to promote a PhD procedure. The position is, depending on the qualifications achieved to date, initially limited for a period of 3 years. An extension is possible within the time limits of the WissZeitVG. The position is embedded in the project **"FIQ-Quest - Exploration and Exploitation of Probabilistic Interpretable Face Image Quality"** of the German Research Foundation (DFG).

Face recognition systems are widely used and significantly impact daily life. Ensuring high-quality face images is crucial for reliable recognition and preventing errors. Factors such as illumination, resolution, head position, or occlusions can lead to incorrect matches. Face Image Quality measures the utility of a face image for recognition prior to any matching, helping to predict its impact on system performance. The main goal of this position is to develop effective and interpretable quality assessment algorithms. This research combines various machine learning topics, including uncertainty, explainability, and fairness in supervised and unsupervised deep learning approaches in the context of biometrics.

Your duties and responsibilities:

- Teaching duties usually amounting to 4 teaching hours (SWS) per week
- Development of face image quality assessment algorithms
- Collaboration in research and teaching in the area of machine learning

Hiring requirements:

- Scientific Master degree in computer science or a related field
- Knowledge in machine learning, especially deep learning
- Analytical and problem-solving skills
- Highly motivated to do research
- Good writing and communication skills in English

We offer:

- Flexible working hours and the individual option of mobile working
- Wide range of health, counseling and prevention services
- Attractive fringe benefits such as childcare facilities and sports activities
- Opportunities for internal and external training and development
- Additional benefits in accordance with the collective agreement of the federal states (TV-L), such as annual bonuses and capital-forming benefits as well as the VBL supplementary pension scheme
- Open communication culture and agile workflows
- Work on highly relevant state-of-the-art research topics and technologies

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.

Please send your application documents (CV, scanned transcripts and diplomas, letters of recommendation (if any) and copies of relevant scientific papers (e.g. thesis), statement of research interest (1-2 pages) using the **Ref. No. 6814** until **March 14th, 2025** to philipp.terhoerst@uni-paderborn.de.

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

Dr.-Ing. Philipp Terhörst
Faculty of Computer Science, Electrical Engineering and Mathematics – Responsible AI for Biometrics
Paderborn University
Warburger Str. 100, 33098 Paderborn

TOTAL E-QUALITY DIVERSITY

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