In the department of Computer Science and Business Informatics, Artificial Intelligence & Intelligent Information Systems Group at University Trier, one

Post-Doc Position (f/m/d, full time, fixed term until 31.12.2023) in «Flexi-Teams» Project

is open and to be filled as soon as possible. Payment follows E 13 TV-L.

Task in the „Flexi-Teams“ Project

In pandemic situations, such as the current COVID-19 pandemic, healthcare organizations as well as companies have to adapt their existing work processes and teams very flexibly and dynamically to the changing framework conditions. The specific requirements for such a redesign are constantly changing due to the continuously changing knowledge about the specific risk factors in the spread of the pandemic and, thus, require an agile change of direction, which is associated with great effort and uncertainty. By using the data available in organizations on personnel, resources and organizational processes, combined with knowledge of cognitive science and work psychology as well as concrete experience from comparable issues from previous crises, new digital instruments can be designed to support the flexible reorganization of work teams. Artificial intelligence (AI) methods are in the foreground in the Flexi-Teams project and can be used to identify decision proposals and explain them transparently, as well as prospectively and retrospectively evaluate alternatives and decision options.

Your task in the Flexi-Teams project is to research interactive approaches in the field of Case-Based Reasoning (CBR) for the experience-based reorganization of work processes and teams. The aim is to investigate how experience-based systems can be designed as interactive systems by combining them with methods from the research area of Human-Computer Interaction (HCI) in such a way that cooperative solution finding is enabled in a dialog between humans and machines. It is expected that a deeper understanding of the experience-based decision proposals can be achieved by the human decision maker through appropriate interactive visualization and process simulation, in particular in the area of work reorganization. You will work in an interdisciplinary team of AI and HCI experts and psychologists and will participate in the necessary knowledge exchange and discussions.

Development Potential in the Project and at University of Trier as well as the DFKI

- Direct cooperation and joint publications in a team of computer scientists, business informatics specialists as well as organizational psychologists and qualification in the context of the interdisciplinary context within the project working group
- Possibility of using the compute infrastructures (incl. server hardware for GPU computing)
- Possibility of participation in other projects of the University of Trier as well as the local branch of the German Research Center for Artificial Intelligence (DFKI)
- Possibility to develop own project ideas, to acquire research funds, and to implement projects

Requirements and Application

In addition to a completed university degree, you have a doctorate in the field of computer science, business informatics, or a closely related field, ideally with a focus on artificial intelligence, and you already have publications in this area. You have a very good knowledge of the English language and are interested in publishing in English-language scientific journals and conferences. You can prepare, communicate and implement research questions in a structured manner. You are characterized by high social skills, willingness to work in an independent and team-oriented working style. People with restrictions will be given preference if they are suitable (please enclose proof of disability). The University of Trier endeavors to increase the number of its female scientists and urges them to apply. Please send your application with the usual documents (curriculum vitae, letter of motivation, certificates) in electronic form by June 30, 2021 to bergmann@uni-trier.de, Prof. Dr. Ralph Bergmann, University of Trier, Department IV - Computer Science, 54286 Trier. Please summarize all documents in one pdf file. It is not necessary to send it separately via mail. If you have any questions, please contact Prof. Dr. Ralph Bergmann (bergmann@uni-trier.de).