The new Chair »*Data Science and Data Engineering*« *(Prof. Dr. Emmanuel Müller)* is looking for

Three Research Associates / PhD Candidates

Open PhD positions complement our current research team with new research topics in **Representation Learning on Graphs**, **Anomaly Detection on Sparse Data**, and **Predictive Analytics on Data Streams**. We aim at close collaboration with industrial partners in these projects. The positions are accompanied with German public sector salary (TV-L E13) and immediately available.

Tasks

- Development of advanced **unsupervised machine learning** methods for **sparse data**, **data streams**, and **complex networks**
- Research collaborations with industrial partners in joint interdisciplinary projects
- Contributions in conception and implementation of an open source platform for big data analytics
- Publication and presentation of scientific results at high ranked international conferences in areas of machine learning and information systems.

Qualifications

- Excellent degree (Master/Diploma) in computer science, physics, mathematics or similar programs
- Good knowledge in statistics, linear algebra and higher programming languages
- Experience in machine learning, graph analytics or stream data mining is an advantage
- High degree of creativity, commitment, analytical competence, and teamwork
- High proficiency in English, both written and spoken on the level of scientific publications

Research Environment

The position is embedded in a creative, attractive, and internationally renowned research environment with support for publications at leading international conferences, hosted at the technically outstanding Bonn-Aachen International Center for Information Technology (b-it). We offer research and teaching activities in cooperation with RWTH Aachen University, University of Bonn, and Fraunhofer Institutes. Through its unique geographical location in Rhineland, we provide an exceptional work environment.

If you have prior experience in these areas, you are invited to submit your curriculum vitae, a motivation letter highlighting your research interests in at least two of our recent publications, and names and contact information for two references to: office-mueller@bit.uni-bonn.de

Bonn-Aachen International Center for Information Technology
Chair of Data Science and Data Engineering – http://data.bit.uni-bonn.de
Prof. Dr. Emmanuel Müller
b-it building, Endenicher Allee 19C, D-53115 Bonn

The Bonn-Aachen International Center for Information Technology (b-it) is one of Europe's leading institutions for cutting-edge research and higher education in informatics. We shape digital change in exchange with economy and society and focus on data science research and its application areas. We offer highly selective international master programmes in computer science. Many courses in these programmes focus on aspects of modern data science and prepare students for careers in industry and academia alike. Courses are taught in English, tightly connected to fundamental research and accompanied by practical lab work at the participating Fraunhofer institutes. PhD candidates are enrolled in the University of Bonn, an international research university that offers a wide range of degree programmes. With 200 years of history, about 38,000 students, over 6.000 employees, and an excellent domestic and international reputation, it is among the leading research universities.

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