PhD position in computer science

Job description: The project V-FOR-WaTer aims to create a virtual research environment (VRE) which will combine research data gathered in universities, research centres and from continuous monitoring of state offices in Baden-Württemberg into one comprehensive system. Facilitating access to all these different data sources in one system greatly reduces pre-processing time of complex analyses and enables the study of this extensive dataset towards the development a unified environmental system theory. The project is a co-operation between the Steinbuch Centre for Computing (SCC) and the Institute of Water and River Basin Management (IWG).

The tasks for this position include
- Design of a scalable solutions for flexible and modular analysis tools offered by the VRE
- Integration of proper standards (e.g. from OGC)
- Optimization in the application of statistical methods
- Evaluation of VRE in terms of generic features and the specific implementation for hydrology analyses

Qualification: You have a Masters in computer science, geoinformatics or a related subject preferably with a focus on the analysis of large multidimensional datasets. You
- are interested in database management and GIS applications
- have worked with data analysis environments such as R, Matlab
- have appropriate programming skills, preferably in python
- are interested in efficient methods of complex data analysis and in creating comprehensive data resources for the development of holistic systems understanding

You can work independently, but you are also able to co-operate closely with the hydrology experts at IWG. You are fluent in English: verbal and written.

Salary: The remuneration occurs on the basis of the wage agreement of the civil service in TV-L, E 13.

Institute: Steinbuch Centre for Computing (SCC) and the Institute of Water and River Basin Management (IWG)

Contract duration: limited to 3 years

Starting date: 01.05.2016

Application up to: 05.04.2016

Contact person in line- For more information please contact Dr. Jörg Meyer, e-mail:
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Application: Applications (one PDF with cover letter (motivation, research interests), curriculum vitae, relevant certificates, publication list) should be sent by e-mail to Dr. Jörg Meyer, joerg.meyer2@kit.edu.

KIT is an equal opportunity employer. Women are especially encouraged to apply. Applicants with disabilities will be preferentially considered if equally qualified.