The Research Institute for Cognition and Robotics (CoRLab) offers a full-time research position starting by the 1st of January 2019 (E13 TV-L, non-permanent position)

Your Tasks

In our collaboration project with the Honda Research Institute Europe GmbH the Computer Graphics and Geometry Processing Group will investigate adaptive and sparse representations for geometric objects (100 %) aiming at an efficient and intuitive shape analysis, synthesis, and manipulation of geometric surfaces with semantically and geometrically meaningful parameters.

On the one hand, these sparse geometric representations are supposed to identify the underlying designs of already existing models. On the other hand, they should make a collaborative design possible. During the four project phases the synthesis of models, the analysis of one model, the co-analysis of several models, and the design transfer shall be researched.

The successful candidate will work at Bielefeld University most of the time, but will also spend several weeks per year at the Honda Research Institute in Offenbach, in order to foster collaboration and provide interesting insights into the research environment of the Honda Research Institute Europe.

It is possible to do a doctoral thesis.

Your Profile

We expect
- Master's degree in computer science, applied mathematics, or a related field
- very good knowledge of geometric modeling with continuous and discrete surface representations
- good background in applied mathematics
- good knowledge of computer graphics
- independent, self-reliant and dedicated style of work
- good organizational and communication skills
- ability to cooperate and work in a team
- good command of English, written and oral

Preferable qualifications
- good knowledge of machine learning

Remuneration

Salary will be paid according to Remuneration level 13 of the Wage Agreement for Public Service in the Federal States (TV-L). As stipulated in § 2 (1) sentence 1 of the WissZeitV (fixed-term employment), the contract will end after two years (with the option of a further extension period of two years). In accordance with the provisions of the WissZeitV and the Agreement on Satisfactory Conditions of Employment, the length of contract may differ in individual cases. The employment is designed to encourage further academic qualification. In principle, this full-time position may be changed into a part-time position, as long as this does not conflict with official needs.

Bielefeld University is particularly committed to equal opportunities and the career development of its employees. It offers attractive internal and external training and further training programmes. Employees have the opportunity to use a variety of health, counselling, and prevention programmes. Bielefeld University places great importance on a work-family balance for all its employees.

Application Procedure

For full consideration, your application should be received via either post or email (a single PDF) document sent to skoelsch@techfak.uni-bielefeld.de by the 18th of October 2018. Please mark your application with the identification code: wiss18267. Please do not use application portfolios and send only photocopies of original documents because all application materials will be destroyed at the end of the selection procedure. Further information on Bielefeld University can be found on our homepage at www.uni-bielefeld.de.

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Bielefeld University has a number of awards for its achievements in the provision of equal opportunities and has been recognized as a family-friendly university. The University welcomes applications from women. This is particularly true with regard to both academic and technical posts as well as positions in Information Technology and Trades and Craft. Applications are handled according to the provisions of the state equal opportunity statutes. Applications from suitably qualified handicapped and severely handicapped persons are explicitly encouraged.