PhD position (Open Topic) in Computer Science / Medical Engineering

The Machine Learning and Data Analytics Lab at the Friedrich-Alexander-University Erlangen-Nürnberg (FAU) invites applications for a **PhD position** in Computer Science. The position is open-topic, research goals can be defined after an initial onboarding phase.

Background:
The constant progress in medicine obligates the field of medical engineering to search for innovative developments and improved processes. Therefore, medical engineers need to have profound engineering knowledge in domains like mathematics, electrical engineering, or computer science. One of the courses that introduces students into the basics of computer science is "Algorithms and Data Structures" where basics of object-oriented programming are taught and different data structures, such as linked lists, search trees and graphs are introduced. Another focus lies on the development of algorithms using recursion, sorting or graph algorithms. This position is affiliated with the co-supervision of the exercises affiliated with this course, including preparation of assignment sheets, exercise slides and management of student tutors. Therefore, the successful candidate is expected to be an avid team worker and to strong interest in teaching.
FAU is one of the largest universities in Germany. With its five faculties, FAU offers a scope of subjects ranging from the Humanities to Law and Economics as well as Sciences, Medicine and Engineering. The FAU's mission statement "Knowledge in Motion" reflects the close collaboration between the single disciplines.
The Machine Learning and Data Analytics Lab at the FAU develops machine learning algorithms and ubiquitous computing systems. The aim of the MaD Lab is to contribute ML and AI research that is applicable to real-world interaction settings. Detailed information on ongoing projects is available on our website, via our publications and upon request.

Requirements:
Candidates for this position should have a master or comparable degree in Computer Science or a related discipline (Medical Engineering, Software Engineering, …). The ideal candidate shows strong enthusiasm about teaching the basics of algorithms and data structures to motivated medical engineering students. Therefore, very good programming skills in Java are required. The candidate should also blend expertise in software of wearable and ubiquitous computing systems with background knowledge in Machine Learning and an interest in medical engineering as an application area.

Program details and contact for application/questions:
The project start date is February 1, 2019. Funding is available for 30 months, an extension is possible. Prospective applicants should apply with a cover letter and academic CV. Applications will be accepted until the position is filled.
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