Job Advertisement, Researchers and Software Engineers

The IUI department at DFKI in Saarbrücken led by Prof. Wahlster (Director and CEO of the German Research Center for Artificial Intelligence) is currently seeking several part-time researchers (preferably PhD candidates, M.Sc. required) and software engineers (B.Sc. required) in interactive and semantic machine learning. The application areas are multimodal multisensor interfaces in the medical domain, multimedia information extraction, IoT for intelligent user interfaces, mobile interaction, mixed and virtual reality, and autonomous systems.

Positions in Medical CPS related to Biomedical Informatics, see. e.g., http://www.dfki.de/MedicalCPS/?page_id=8

Responsibilities: enhance access to relevant information for clinicians, patients, and healthcare providers alike, filter and “clean” data for clinical decision support.
Requirements: technical expertise regarding facetted search (DB access, RDF), information extraction and semantic wiki (RDF/OWL guidelines). Strong knowledge of and experience with databases (SQL etc) and clinical data sets (e.g., German patient records) and consumer health data sets (e.g., online health communities) to be processed automatically. A desirable criterion is expertise in machine learning, crowdsourcing and/or software development in hospital information systems, and clinical guidelines.

Positions in Multimodal Multisensor Interaction and Cognition, see, e.g., http://kognit.dfki.de

Responsibilities: the area of fundamental research and prototype implementation is the development of a computational cognitive model via episodic memory databases, i.e., patients’ cognitive modelling, assessment, monitoring and compensation; activity recognition; additional knowledge of multimodal interaction system implementation would be an asset. Other desirable skills include deep learning or GPU programming, GoogleML and Tensorflow in particular.
Requirements: working knowledge of state-of-the-art sensor technology and/or digital pens; you should also have experience working with AI technology for modelling episodic memory in real-time with databases (e.g., IBM Cloudant) and machine learning. Knowledge of neuroscience and cognitive modelling is a plus but not required. The ability to develop tools in Python is desirable and some programming skill is required, e.g., Unity3D programming or expertise in serious games development.

The successful applicants will be supervised by Dr. Daniel Sonntag (http://www.dfki.de/~sonntag/) in a highly collaborative and international environment. Successful candidates are required to become adept at scientific paper writing and presenting findings will be important. Applications can be sent electronically and should include a full CV, copies of certificates and two references, and the earliest possible starting date.

Applications close 1st May 2017 (5pm GMT) Please contact Daniel Sonntag for informal enquiries and send your electronic application (preferably in PDF format) to sonntag@dfki.de.