Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG

As a University of Excellence, Universität Hamburg is one of the strongest research universities in Germany. As a flagship university in the greater Hamburg region, it nurtures innovative, cooperative contacts to partners within and outside academia. It also provides and promotes sustainable education, knowledge, and knowledge exchange locally, nationally, and internationally.

Pending approval of external funding **the Faculty of Mathematics, Informatics and Natural Sciences, Department of Informatics, Technical Aspects of Multimodal Systems Group** invites applications for a

RESEARCH ASSOCIATE FOR THE PROJECT "DEXMAN: IMPROVING ROBOT'S DEXTEROUS MANIPULABILITY BY LEARNING STIFFNESS-BASED HUMAN MOTOR SKILLS AND VISUO-TACTILE EXPLORATION "

- SALARY LEVEL 13 TV-L -

The position in accordance with Section 28 subsection 3 of the Hamburg higher education act (Hamburgisches Hochschulgesetz, HmbHG) commences on 01 May 2020.

This is a fixed-term contract in accordance with Section 2 of the academic fixed-term labor contract act (Wissenschaftszeitvertragsgesetz, WissZeitVG). The anticipated term is fixed until 31 March.2023 (subject to project start on 01 April 2020). The position calls for 90 % of standard work hours per week*.

RESPONSIBILITIES:

Duties include academic services in the project named above. Research associates may also pursue independent research and further academic qualifications.

SPECIFIC DUTIES:

Conduct novel research in the area of multimodal system, dexterous manipulation, human motor skill learning, robot perception, adaptive control, human-robot collaboration. Develop learning models embedding perception information for human skill extraction and generalization to new tasks. Deploy algorithms on reconstructing and tracking an unknown object by exploiting interactive manipulation and multi-modal feedback. Realize and evaluate multiple sensor fusion based adaptive grasping and manipulation control framework enhanced by human motor skills extraction. Communicate research vision, results, and impact to TAMS .

* Full-time positions currently comprise 39 hours per week.

team, and the broader research community through papers, presentations, and technical reports

REQUIREMENTS:

A university degree in a relevant field, Robotics, or a related field with a focus on robotic learning and control. Have a track record of coming up with new ideas or improving upon existing ideas, such as demonstrated by high-quality publications. Extensive knowledge of a main research subject and broad knowledge of robotics, manipulation, learning, sensor fusion and multimodal systems. Experience and interest in validating the research results in laboratory experiments. Have recent experience in some combination of the following programming languages such as Matlab, Python, C /C. Fluency in spoken/written both English and Chinese will be an advantage, since DEXMAN is a joint research project funded by DFG and NSFC. Experience in international research cooperation is preferred.

The Free and Hanseatic City of Hamburg promotes equal opportunity. As women are currently underrepresented in this job category at Universität Hamburg according to the evaluation conducted under the Hamburg act on gender equality (Hamburgisches Gleichstellungsgesetz, HambGleiG), we encourage women to apply for this position. Equally qualified and suitable female applicants will receive preference.

Qualified disabled candidates or applicants with equivalent status receive preference in the application process.

For further information, please contact Prof. Zhaopeng Chen or consult our website at https://tams.informatik.uni-hamburg.de/. Suitable candidates will be noted for interview soon.

Applications should include a cover letter, a tabular curriculum vitae, and copies of degree certificate(s). Please send applications by 18 March 2020 to: tetsis@informatik.uni-hamburg.de.

Please do not submit original documents as we are **not** able to return them. Any documents submitted will be destroyed after the application process has concluded.