The Karlsruhe Institute of Technology (KIT) combines its three core tasks: research, higher education, and innovation within one mission. With about 9,400 employees and 25,000 students, KIT is one of the big institutions of research and higher education in natural sciences and engineering in Europe.

The German Aerospace Center (Deutsches Zentrum für Luft- und Raumfahrt; DLR) is not just the aeronautics and space research centre of the Federal Republic of Germany. It conducts research and development activities in the fields of aeronautics, space, energy and transport, and their interdisciplinary topics security and digitalisation. Climate, mobility and technology are changing globally. DLR uses the expertise of its 55 research institutes and facilities with 10,000 employees to develop solutions to these challenges.

In a joint appointment by KIT and DLR in Division II (Informatics, Economy, and Society) with its KIT Department of Informatics, a

**W3 professorship for Intelligent Robot Perception**

is to be filled as soon as possible.

The professorship is integrated in the KIT Institute of Anthropomatics and Robotics (IAR). The future post holder will be appointed as professor at KIT and at the same time will be on leave to take over research and management tasks under the leadership of the institute’s management at the DLR Institute of Robotics and Mechatronics in Oberpfaffenhofen (Jülich model).

DLR and KIT intend to cooperate intensively in the field of intelligent robotics in research and teaching and to intensify the cooperation by sharing resources.

The research will be dedicated to machine learning methods for visual robot perception, in particular for exploration and semantic modeling. Deep learning methods, uncertainty-based and active learning, and the combination of model-based and data-driven learning methods shall be explored with the goal of increasing the degree of autonomy and adaptability of robotic systems. The application areas range from assistance robotics, service robotics and manufacturing to autonomous driving.

The professorship participates in teaching the courses of the KIT Department of Informatics through its membership in the IAR. The teaching load is two semester hours per week. In particular, participation in the specialization on "Robotics and Automation" as well as in the specialization on "Anthropomatics and Cognitive Systems" is expected. Special emphasis is placed on collaboration with industry, acquisition of external funding, technology transfer, and an integrative leadership style.

The prerequisites are outstanding, internationally visible scientific achievements, a connection to at least one of DLR’s research areas, didactic aptitude, and proven leadership experience. In all other respects, the hiring requirements are based on § 47 LHG (Act of Baden-Württemberg on Universities and Colleges) in conjunction with § 20 KITG (KIT-Act) in the version applicable until the legal validity of the 2. KIT-Weiterentwicklungsgesetz (2nd KIT Further Development Act). A prerequisite for employment at DLR is the willingness to undergo a security check in accordance with the national security check law (Sicherheitsüberprüfungsgesetz §8 ff SÜG).

KIT and DLR are equal opportunity employer. Women are especially encouraged to apply. Applicants with disabilities will be preferentially considered if equally qualified. KIT and DLR are certified family-friendly institutions and offer part-time employment, leave of absence due to family reasons, dual-career service and coaching to support the compatibility of work and family life.

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Applications with the required documents (curriculum vitae, degree certificates as well as a list of publications) and a perspective paper (maximum of three pages) on the planned research and teaching activities and possible cooperation at DLR and KIT should be sent by e-mail, collated in a single PDF document, to dekanat@informatik.kit.edu by 05.06.2022. Information, including on the application requirements for the professorship, can be obtained from Prof. Dr. Gregor Snelting (email: snelting@kit.edu) and Prof. Dr.-Ing. Alin Albu-Schäffer (email: Alin.Albu-Schaeffer@dlr.de).