



The Department of Informatics of the Technische Universität München (TUM) along with the German Aerospace Center (DLR) is seeking to fill the position of

**Chair for
Sensor Based Robots and Intelligent Assistance Systems
(Bes.-Gr. W3)**

This person will be appointed as university professor of the TUM and will be granted leave from the University to the German Aerospace Center (DLR) in Oberpfaffenhofen to assume the position of

**Director of the
Institute of Intelligent Robot Assistance Systems
(Successor of Prof. Dr.-Ing. G. Hirzinger)**

The position requires holding lectures with two contact hours per week per semester at the TUM.

Currently, at the DLR, a Robotics and Mechatronics Center is being set up, which, in addition to the Institute for Intelligent Robotic Assisting Systems includes various other institutes. The focus of this center, with its 300 employees at the locations Oberpfaffenhofen and in Berlin, is on the interdisciplinary design, the optimization, the simulation and also the realization of complex mechatronic systems up to autonomous robots. Additional areas of focus are automotive technology with an emphasis on vehicle and driving dynamics as well as electro mobility; furthermore, optical information systems for small satellites, their sensors and precision control. There are work groups which specialize in photo-realistic 3D world modeling, innovative camera technology and multi spectrum sensors. Additional information about the institute is available at <http://www.dlr.de/rm/en/>

The Institute for Intelligent Robotic Assisting Systems in Oberpfaffenhofen will concentrate mainly on innovative robots for telepresence in aerospace and their control by astronauts or via ground control through high performance Human-Machine-Interfaces.

The position of the Director of the institute is tied to the professorship for Sensor Based Robots and Intelligent Assisting Systems at the the Technische Universität München. The TUM offers an environment of research and teaching which complements and expands the areas listed above that DLR focuses on – among them, knowledge processing, cognitive robotics, sensor technology and information fusion, medical technology, cyber-physical systems, software technology and design processes.

In particular, we are looking for candidates with excellent scientific merits and a well-established international reputation in one or more of the following areas, who can represent these areas in research and teaching:

- Mechatronics: development of sensors and actors for humanoid robot systems
- Computer Vision: perception for the control of sensor based robots
- Cognition: achievement of adaptivity, ability to learn and autonomous behavior
- Telerobotics: remote control and autonomy for robots in space exploration
- Rover Technology: mobility concepts for planetary exploration
- Medical Robotics: remote controlled and partially autonomous systems in surgery

The successful applicant will have the ability for networked, visionary thinking (especially with respect to future developments in space exploration) and is prepared to create synergies between the DLR core areas of research: aerospace, energy and traffic. In addition, special emphasis will be placed on strengthening the cooperation between DLR and TUM in research and teaching.

Requirements of being hired for this position are many years of experience of managing large research groups or institutions, a university degree, pedagogic skills, PhD and Habilitation or proof of equivalent scientific performance, as well as fluency in German, written and spoken. At the time of appointment to the position, applicants may not be older than 52 years of age. Exceptions to this rule may be made in special circumstances.

Within the framework of the Excellence Initiative of the German federal and state governments, DLR and Technische Universität München have the strategic goal of significantly increasing the percentage of women in the area of research and academics. Female researchers are strongly encouraged to apply. DLR and TUM offer support and services for dual-career couples and families. Handicapped applicants with essentially equivalent qualifications will be preferred.

Applications including the usual documents (CV, copies of official academic documents and certificates, publication list including offprints) should be mailed by **6. Feb. 2011** at the latest, in paper form and in addition as PDF-files on a suitable data medium to

**Herrn Dr.-Ing. e.h. Thomas Reiter, Mitglied des Vorstandes des DLR, Linder Höhe,
D-51147 Köln, Germany**

as well as to

**the Dean of the Faculty of Informatik of the TUM, Boltzmannstr. 3, D- 85748 Garching,
Germany.**