W3-Professorship for Methods of Communications Engineering

Job description: We are looking for a person, who is to represent in research and academic education the field of methods of communications engineering for self-optimizing and resilient communication networks.

Applicants should be experienced and have a high reputation in several of the following areas focusing on the communication engineering aspects:

- Access techniques and protocols for communication networks, especially mobile communications and cellular networks (e.g., OpenRAN)
- Design and optimization of network architectures, e.g., for mobile communications and data centers
- Dynamic, self-optimizing communication networks based on programmable and virtualized network elements
- Time-critical communication (low-latency, real-time networking), e.g., for smart factories (industry 4.0)
- Ad-hoc networks (e.g., for car-to-car communications)
- Security in access networks (e.g., radio communication networks) and secure data transmission
- Cooperative and coordinated communication networks (relaying, coordinated multipoint)
- Network information theory

Qualification: Candidates should have an internationally outstanding scientific qualification, excellent didactic skills, and leadership experience. Experience gained in industry, close-to-industry research, start-ups, and in the acquisition of third-party funding is desired.

In the area of academic education, candidates are expected to actively participate in existing and newly established German and English study programs offered by the KIT Department of Electrical Engineering and Information Technology as well as in related programs offered by other departments of KIT. Besides courses in the field covered by the professorship, this also includes basic lectures in bachelor’s programs.
Employment conditions as outlined in Article 47, LHG (Act of Baden-Württemberg on Universities and Colleges) in conjunction with § 20 KITG (KIT-Gesetz) shall apply.

Institute: Division III - Mechanical and Electrical Engineering, and Member of the Board of the Communications Engineering Lab (CEL) at KIT Department of Electrical Engineering and Information Technology

Contract duration: permanent

Starting date: Employment is to start at the earliest date possible.

Application up to: April 09th, 2021

Application: Kindly mail your application, including the usual documents (CV, list of publications, graduation and other certificates, teaching evaluations, documentation of previous and planned research and teaching activities) by April 09, 2021 to Professor h.c. Dr.-Ing. Joachim Knebel, Head of Division III – Mechanical and Electrical Engineering, Karlsruhe Institute of Technology (KIT), c/o Dekanat ETIT, Kaiserstr. 12, 76131 Karlsruhe, Germany, via email: dekanat@etit.kit.edu. For a comparative evaluation of applications as part of the appointment procedure, please submit the CV and the (planned) research and teaching concept in English.

In case of questions relating to the appointment procedure, contact the Dekanat (Dean’s Office) of the KIT Department of Electrical Engineering and Information Technology, email: dekanat@etit.kit.edu (Managing Director: Nicole Landeck).

KIT is an equal opportunity employer. Women are especially encouraged to apply. Recognized severely disabled persons will be preferred if they are equally qualified.

The processing of personal data by the Karlsruhe Institute of Technology (KIT) is carried out according to the Privacy Policy.

The KIT is certified as a family-friendly university and offers part-time employment, leaves of absence, a Dual Career Service and coaching to actively promote work-life-balance.

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