

Invitation to the Oral Examination – Department CE

For the occasion of his examination for a Doctoral Degree,

Ege Korkan, M.Sc.

will present his dissertation entitled/on

Design, Test, and Diagnosis of Decentralized System Architectures in the Web of Things

on 13 January 2025 at 10:00 h

Attendance to the presentation is open to the public. The presentation will be in English.

The candidate, all members of the Examination Committee, and authorized examiners of the TUM School of CIT are invited to the presentation and subsequent oral examination.

The presentation and subsequent examination will take place in presence and online via Zoom: Raum **Z995** and **Zoom** Meeting-ID: 674 0129 2747, Kenncode: 117645

Examination committee:

Chair: **Prof. Klaus Diepold**

First Examiner: **Prof. Sebastian Steinhorst**

Second Examiner: **Prof. Simon Mayer, Universität St. Gallen**

Munich, the **20 of November 2024**

Mailing list:

Members of the examination committee

Doctoral candidate

Abstract:

Internet connectivity is commonplace in various domains, bringing flexibility on side, complexity on the other. This work addresses the development complexity of single IoT devices and systems of IoT devices by leveraging the Web of Thing standards and contributing to them at the same time. This results high-quality IoT devices which are interoperable, while turning system composition into a more automated and systematic process. The outcome shows that the Web of Things is the optimal approach to managing IoT diversity, offering a pathway to more cohesive and scalable IoT solutions.