

## Invitation to the Oral Examination – Department CS

For the occasion of his examination for a Doctoral Degree,

**Mr. Raffael Manuel Bild**

will present his dissertation entitled

***Practical Approaches to the Truthful Anonymization of Microdata***

on **22 January 2025** at **13:00 h**

Attendance to the presentation is closed to the public. The presentation will be in German.

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 room **00.12.019**.

### **Examination committee:**

Chair: **Prof. Daniel Rückert; TUM**

First Examiner: **Prof. Martin Boeker; TUM**

Second Examiner: **Prof. Oliver Kohlbacher; University of Tübingen**

Garching, **9 January 2025**

### **Mailing list:**

Members of the examination committee

Doctoral candidate

### **Abstract:**

This dissertation presents scientific contributions from the field of truthful microdata anonymization. They include a practical anonymization algorithm providing differential privacy, multiple optimizations for protecting numeric attributes in an efficient manner, and an analysis of the negative impacts of floating-point rounding errors on the degree of protection provided by implementations of several anonymization methods as well as a reliable computing framework to mitigate these impacts.