Invitation to the Oral Examination – Department MATH

For the occasion of his examination for a Doctoral Degree,

Dantong Wang

will present his dissertation entitled

Parameter estimation and prediction using mixed effects modelling method with different data types

on **14. 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 online per zoom

https://tum-conf.zoom-x.de/j/66559434606?pwd=wV408nfzeYHqT35QCNGBD5mJ86rEtb.1

Examination committee:

Chair: **Prof. Oliver Junge**

First Examiner: **Prof. Jan Hasenauer**

Second Examiner: **Prof. Nicole Radde**

Third Examiner: **Prof. Christina Kuttler**

Munich/Garching, the **3** of **January 2025**

Mailing list:

Members of the examination committee

Doctoral candidate

Abstract:

Even genetically equivalent cells can respond differently to the same stimuli. Furthermore, patients with the same disease have different response to the same treatment. For this purpose, MEM method has been developed to describe this variability.

The contributions presented in this thesis allow for more efficient and accurate parameter estimation of MEM. We anticipate that these contributions will improve the prediction ability of MEMs and broaden our understanding of complex biological systems