Invitation to the Oral Examination - Department CE

For the occasion of his examination for a Doctoral Degree,

Martin Knoche

will present his dissertation entitled

Cross-Resolution Face Verification

on December 20th, 2024 at 15.00 h CET

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 room N0116, Munich Main Campus, Building N1, Theresienstraße 90, 80333 München https://nav.tum.de/room/0101.EG.116

Examination committee:

Chair: Prof. Dr. phil. Tobias Vogl
First Examiner: Prof. Dr.-Ing. Gerhard Rigoll
Second Examiner: Prof. Dr.-Ing. Klaus Diepold

Munich, the 3rd of December 2024

Mailing list:

Members of the examination committee
Doctoral candidate
CIT staff

Abstract:

This dissertation investigates face verification (FV) using images of varying resolutions. It first analyzes how image resolution impacts the performance of FV models before developing new methods for improvement. A new dataset is introduced to achieve standardized evaluation. Additionally, the work summarizes research on the explainability of FV model decisions. The work also demonstrates how integrating human decisions can enhance the accuracy of FV systems in borderline cases.