

Invitation to the Oral Examination – Department / CE

For the occasion of his examination for a Doctoral Degree,

Rettinger, Maximilian Benjamin Siegfried, M.Sc.

will present his dissertation entitled/on

***“Extended Reality Technologies and User Experience Parameter:
Advancing Training and Learning System Effectiveness”***

on Friday, April 10, 2026 at 3:00 PM

Attendance to the presentation is open 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 presence at TUM, Theresienstr. 90, building N4, 2. floor, room N2405, 80333 München.

Examination committee:

Chair: **Prof. Dr.-Ing. Norbert Hanik**

First Examiner: **Prof. Dr.-Ing. Gerhard Rigoll**

Second Examiner: **Prof. Dr. rer. nat. Daniel Roth**

Third Examiner: -----

Munich, 30.03.2026

Mailing list:

Members of the examination committee

Doctoral candidate

CIT staff

Abstract:

Extended Reality technologies promise new pathways for effective learning and training. But how effective are they really? This dissertation systematically analyzes the impact of technology, environment and interaction on performance in training scenarios. The findings reveal clear advantages over conventional methods and result in a practical framework for safety-critical applications.