

## Invitation to the Oral Examination – Department CS

For the occasion of his examination for a Doctoral Degree,

**Zhai, Guangyao**

will present his dissertation entitled

***Digital and Embodied Intelligence with Scene Generative Models***

on **01.04.2026** at **14:00 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 via Teams:

Microsoft Teams-Besprechung

Teilnehmen: <https://teams.microsoft.com/meet/38697746101309?p=BtnMiRrDKVgCZQFly0>

Besprechungs-ID: 386 977 461 013 09

Passcode: GN3xU9Ug

### **Examination committee:**

Chair: **Prof. Dr. rer. nat. Achim Lilienthal**

First Examiner: **Prof. Dr. Nassir Navab**

Second Examiner: **Prof. Greg Slabaugh**

Third Examiner: **Prof. Dr. Cengiz Oztireli**

Munich, the **24** of **March 2026**

### **Mailing list:**

Members of the examination committee

Doctoral candidate

CIT staff

**Abstract:**

GenAI is revolutionizing creative, scientific, and interactive domains, empowering embodied AI agents via realistic scene generation and manipulation. This dissertation presents semantic-graph-guided, diffusion-based models for 3D scene synthesis and robotic manipulation, bridging virtual and real-world intelligence.