

Invitation to the Oral Examination – Department CE

For the occasion of his examination for a Doctoral Degree,

Matteo Pantano

will present his dissertation entitled

**Studies on the Impact of Operator-Designed Cobot's Behaviors
for Industrial Use-Cases**

on **Monday 05th of August 2024** at **03:00 pm**

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:

ZOOM: Meeting ID: 686 1829 5484, Passcode 331724

and in room **02.07.023 (5607.02.023) in the MI building.**

Examination committee:

Chair: **Prof. Matthias Althoff**

First Examiner: **Prof. Dongheui Lee**

Second Examiner: **Prof. Cristina Piazza**

Third Examiner: -

Munich/Garching, the 24th of July 2024

Mailing list:

Members of the examination committee

Doctoral candidate

Abstract:

European SMEs, amid production challenges, seek competitively priced manufacturing processes. To address these demands, collaborative robots can be used. However, their adaption faces various barriers. This work proposes spatial interactions via 30 sensors to simplify robot programming and usage. Through these methods non-robot experts can easily configure robots, empowering SMEs to produce diverse, high-volume goods at competitive prices.