

Mailing list:

Members of the examination committee
Doctoral candidate

Munich, June 27, 2024

Invitation to the Oral Examination – Department EE

For the occasion of his examination for a Doctoral Degree,

Mr. Valentin Baier

will present his dissertation entitled:

**“Measurement System for the Characterization of LiDAR-Scan Units for
Autonomous Driving”
(„Messsystem zur Charakterisierung von LiDAR-Scaneinheiten für
Autonomes Fahren“)**

on

July 23th, 2024, at 10:00 am

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 in room:

**N1414, N4 (on the first floor), Theresienstraße 90, 80333 München -
Professorship of Microsensors and Actuators**

Examination committee:

Chair: Prof. Dr. Gabriele Schrag
First Examiner: Prof. Dr.-Ing. Alexander W. Koch
Second Examiner: Prof. Dr.-Ing. Erwin Biebl

Abstract:

“This work investigates the requirements for LiDAR (Light Detection and Ranging) sensors for use on highways in advanced driver assistance systems. For this application and based on applicable standards and guidelines, necessary characteristics of LiDAR sensors and the integrated beam deflection units are derived. To characterize such scanners, an optical measurement system is developed and validated. Field of views of up to 47° can be examined with a resolution as small as 0.005° .”
