

Research and Development at
Faculty of Electrical Engineering

3rd E-SCIENCE DAY

January 31st 2024

Audimax H0001



SCHMALKALDEN
UNIVERSITY
OF APPLIED SCIENCES

Programme

- 9:00 am **Welcome and opening**
Prof. Roy Knechtel and Prof. Silvio Bachmann
- session I chair Prof. Silvio Bachmann*
- 9:10 am **Electrochemical applications: From air quality sensors to fuel cells and electrolysers**
Prof. Martin Schreivogel
- 9:25 am **BauKIRo – Usage of AI in construction industry**
Prof. Maria Schweigel and Lisa Schneeweiß (M.Sc.)
- 9:40 am **Materials innovations for wafer level packaging**
Prof. Roy Knechtel and Dr. Martin Seyring
- 9:55 am **Model agnostic explanations for quality predictions in plastics moulding**
Norbert Greifzu (M.Sc.)
- 10:20 am **Break**
with „wafers“ and tea from the students
- session II chair Prof. Roy Knechtel*
- 10:55am **The pivotal role of miniaturized infrared temperature sensors in shaping future trends (online)**
Dr. Rachel Gleeson (Melexis NV)
- 11:25 am **Experimental tools for investigating rapid phase transformations**
Dr. Stephanie Lippmann (Friedrich Schiller University Jena)
- 11:55 am **Current status of 3D printed mechatronics**
Dr. Martin Hedges (Neotech AMT GmbH)
- 12:25 am **Closing remarks**
Prof. Roy Knechtel
- 1:15 pm **Inauguration of the new 3D printing system**
for selected guests