

Program of the 44. Meeting, 29.10.2025

— Shannon- and Post-Shannon-Information Theory —

Technische Universität Braunschweig
Institute for Communications Technology
Room SN 22.2
Schleinitzstr. 22, 38106 Braunschweig

9:00 – 9:06 Dirk Wübben, *Department of Communications Engineering, University of Bremen*

Welcome

9:05 – 9:20 Eduard Jorswieck, Christian Deppe, *Institute for Communications Technology, TU Braunschweig*

Welcome by the host

Session I

9:20 – 9:40 Mojan Wegener, *Institute for Comm. Technology, TU Braunschweig*

Age of Information in Short Packet Multi-Connectivity Links

9:40 – 10:00 Abdalla Ibrahim, *Institute for Communications Engineering, TU Munich*

Stealthy Communication Over Noisy Channels: Channel Capacity and the Role of Randomization

10:00 – 10:20 Marcel Mross, *Institute for Comm. Technology, TU Braunschweig*

The Second-Order Coding Rate of Identification via Simple-Dispersion DMCs with Feedback

10:20 – 10:50 **Coffee break**

Session II

10:50 – 11:10 Ömer Karakas, *Fraunhofer IIS, Erlangen*

A NN-based Channel Coding Scheme for Analog Transmission

11:10 – 11:30 Jyun-Sian Wu, *Institute for Comm. Technology, TU Braunschweig*

Wrap-Decoding in Asynchronous Unsources Multiple Access With and Without Delay Information

11:30 – 11:50 Adam Umra, *Institute for Digital Communication Systems, Ruhr University Bochum*

Towards Smarter Sensing: A Reinforcement Learning Perspective

11:50 – 12:10 Yiqi Chen, *Chair of Theoretical Information Technology, TU Munich*

Integrated Sensing and Communication with Distributed Rate-Limited Helpers

12:10 – 13:10 **Lunch break**

Session III

- 13:10 – 13:30 Maximilian Tillmann, *Department of Communications Engineering, University of Bremen*
Semantic Communication for Task Execution and Data Reconstruction in Multi-User Scenarios
- 13:30 – 13:50 Ahmad Halimi, *Department of Communications Engineering, University of Bremen*
Cooperative Multi-Task Semantic Communication with Implicit Optimal Prior
- 13:50 – 14:10 Jonas Hawellek, *Institute for Comm. Technology, TU Braunschweig*
Optimizing Rates on Channels with Unreliable Entanglement Assistance
- 14:10 – 14:40 **Coffee break**

Session IV

- 14:40 – 15:00 Aymen Khaleel, *Institute for Digital Communication Systems, Ruhr University Bochum*
A Jack of All Trades, Master of What? When and Where RIS Fails, Derails, or Prevails
- 15:00 – 15:20 Marjan Boloori, *Institute for Digital Communication Systems, Ruhr University Bochum*
Optimizing Movable Antenna Position and Transmissive-RIS Phase for Efficient Base Station Design
- 15:20 – 15:40 Pin-Hsun Lin, *Institute for Communications Technology, TU Braunschweig*
Information leakage estimation and its applications
- 15:40 – **Closing**