

Programm der 35. Sitzung am 27.05.2021

— Future Trends in Communication and Sensing —

Virtual Meeting

9:00 – 9:05 Dirk Wübben, *Arbeitsbereich Nachrichtentechnik, Universität Bremen*
Begrüßung

Sitzung I

9:05 – 10:00 Ahmad Nimr, *Vodafone Chair, TU Dresden*
Joint communications and Sensing: Concept and Technical Approaches

10:00 – 10:30 Matthias Tschauner, *Fraunhofer Institut für Kommunikation, Informationsverarbeitung und Ergonomie (FKIE), Wachtberg*
In-band Full-Duplex Technology for Simultaneous Transmit and Receive Operation

10:30 – 11:00 Clemens Müller, *Institut für Nachrichtentechnik, Universität Rostock*
Information Bottleneck Optimization of a Finite Bit Resolution Fast Fourier Transform

11:00 – 11:15 **Kaffeepause**

Sitzung II

11:15 – 11:45 Shreya Tayade, *Forschungsgruppe Intelligente Netze, DFKI Kaiserslautern*
Resource allocation with stability constraints of Automated Guided Vehicle (AGV)

11:45 – 12:15 Maik Röper, *Arbeitsbereich Nachrichtentechnik, Uni Bremen*
Distributed Precoding with Satellite Swarms

12:15 – 12:45 Udaya Sampath Miriya Thantrige, *Institute for Digital Communications System, Ruhr-University Bochum*
Supervised learning-based super-resolution DoA estimation utilizing antenna array extrapolation

12:45 – 13:45 **Mittagspause**

Sitzung III

13:45 – 14:15 Sebastian Stern, *Institute of Communications Engineering, Ulm University*
Concatenated Non-Binary Coding for 4D Constellations

14:15 – 14:45 Ralf Müller, *Lehrstuhl für Digitale Übertragung, FAU Erlangen-Nürnberg*
Linear Computation Coding

14:45 – 15:15 Mustafa Cemil Coskun, *Lehrstuhl für Nachrichtentechnik, TU München*
Polar Code Design for SCL Decoding: An Information Theoretic Perspective

15:15 – 15:30 **Kaffeepause**

ITG Fachgruppe „Angewandte Informationstheorie“



Sitzung IV

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| 15:30 –16:00 | Chu Li, <i>Institute for Digital Communications System, Ruhr-University Bochum</i>
Kalman filter based MIMO CSI phase recovery for COTS WiFi devices |
| 16:00 –16:30 | Muah Kim, <i>Communication and Information Theory Chair, TU Berlin</i>
Federated Learning with Local Differential Privacy: Trade-Offs between Privacy, Utility, and Communication |
| 16:30 – | Verabschiedung |