

Programm der 36. Sitzung am 10.11.2021

— New Approaches to Security & Privacy in Communication Systems —

Virtual Meeting

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

Sitzung I

9:05 – 9:50 Antonia Wachter-Zeh, *Professur für Codierung und Kryptographie, TU München*

Information-Theoretic Analysis and Coding for the RLWE Channel

9:50 – 10:15 Georg Maringer, *Professur für Codierung und Kryptographie, TU München*
Analysis of Communication Channels related to Physically Unclonable Functions

10:15 – 10:40 André Noll Barreto, *Barkhausen Institut, Dresden*

Physical-Layer security – can we make it work in practice?

10:40 – 11:00 **Kaffeepause**

Sitzung II

11:00 – 11:45 Rafael Schaefer, *Chair of Communications Engineering and Security, Uni Siegen*

Deep Learning-based Wiretap Coding via Mutual Information Estimation

11:45 – 12:10 Onur Günlü, *Chair of Communications Engineering and Security, Uni Siegen*

Distributed Function Computation with Secrecy, Privacy, and Storage Constraints

12:10 – 12:35 Rawad Bitar, *Professur für Codierung und Kryptographie, TU München*
Fountain Codes for Private Distributed Matrix-Matrix Multiplication

12:35 – 13:00 Marvin Xhemrishi, *Professur für Codierung und Kryptographie, TU München*

Trade-off Between Privacy and Sparsity in Coded Computing

13:00 – 13:45 **Mittagspause**

Sitzung III

13:45 – 14:10 Muah Kim, *Chair of Communications Engineering and Security, Uni Siegen*
Communication-efficient Federated Learning with Local Differential Privacy by Discrete Gaussian Mechanism and Quantization

14:10 – 14:35 Johannes Pfeiffer, *Institute of Communications Engineering, Ulm University*

Channel Coding Schemes and Multilevel Coding for Physical-Layer Security

14:35 – 15:00 Efe Bozkir, *Department of Computer Science, TU Tübingen*

Privacy Considerations for Eye Tracking and Differential Privacy

ITG Fachgruppe „Angewandte Informationstheorie“



15:00 – 15:25 Matthias Schraml, *Chair of Signal Processing, Bundeswehr University Munich*

Physical Layer Security in Line-of-Sight Satellite Communications

15:25 – 15:45 **Kaffeepause**

Sitzung IV

15:45 – 16:10 Ali Arslan, *Fraunhofer Institute for Integrated Circuits IIS, Erlangen*

RF Fingerprinting based on Signal Integrity for the Detection of Fake BS

16:10 – 16:35 Pin-Hsun Lin, *Institute for Communications Technology, TU Braunschweig.*

Physical Layer Privacy in Broadcast Channels

16:35 – 17:00 Zoran Utkovski, *Fraunhofer-Institut für Nachrichtentechnik, Heinrich-Hertz-Institut, Berlin*

Secrecy Maps: Theory and Applications

17:00 – **Verabschiedung**