

institute  
LM dea  
networks

2011 - 2016



Supervisor: Dr. Joerg Widmer

Research topics:

- Multicast scheduling
- Multicast beamforming
- mmWave MAC design



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TECHNISCHE  
UNIVERSITÄT  
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Prof. Matthias Hollick

Research topics:

- mmWave multicast scheduling
- Beam adaptation for mmWave vehicular networks
- Hybrid precoder design for multicasting

## Hot topics:

- Connected robotics and autonomous systems
  - drone-delivery systems
  - autonomous vehicles
  - 3D networking
- Communication with large intelligent surfaces (LIS)
  - passive elements reflect the incident signal with an adjustable phase shifts without requiring a dedicated energy source for RF processing, decoding, encoding, or retransmission
- Terahertz communication for tiny cells communications
  - mobility management
  - architectural design
- Artificial intelligence