

Joerg Widmer - Introduction

- Research Director at IMDEA Networks, Madrid, Spain
- Leading the Wireless Networking Group (~12 people)
- Topics:
 - Wireless networks from sub-6 GHz to sub-THz
 - Integrated sensing and communication
 - Localization and environment mapping
 - SDR-based wireless experimentation platforms
 - Low-latency networks
 - Ultra-dense deployments
 - 5G network performance measurements
 - Explainable AI+adversarial ML in the context of mobile network management and control



Open Questions

Integrated Sensing and Communication will likely be an integral part of 6G networks

- What architectures changes and principles are needed to support the resulting massive volumes of sensing data in mobile networks?
- Where to collect the data, where to process it, what processed data to store, ...
- Privacy implications of the mobile network as a ubiquitous sensor network?
- What applications are realistic and will be deployed first?