

### Call for Participation

### Würzburg Workshop on 6G Networks (WueWoWAS'25)

The Würzburg Workshop on Next-Generation Communication Networks (WueWoWAS'25) focuses on preliminary and ongoing research and previously published hot topic papers on next-generation communication networks. The central theme is 6G networks, covering advanced architectures, technologies, and concepts that will enable the next generation of connectivity, intelligence, and automation across multiple domains. General topics include but are not limited to

- **6G architectures and technologies:** converged and non-terrestrial networks, specialized networks e.g. industrial, IoT, lower power wide area networks, integrated communication and sensing, joint computation and communication, end-to-end perspective, etc.
- **Enablers and concepts for 6G networks:** softwarization, edge computing, (explainable) AI and ML, automation, large language models (LLMs), real-time and time-sensitive networking (TSN), etc.
- **6G use cases:** critical infrastructures, industrial manufacturing, robotics, automotive, smart city, public safety, power and communication networks, healthcare, remote assistance, meta verse and network worlds, etc.
- **Evaluation and quantification:** measurements, modeling, simulation, analysis on QoS, QoE, sustainability, energy efficiency, resilience, etc. as well as tradeoffs; interdependency evaluation, e.g. between power and communication networks, edge and cloud computing, wired and wireless connectivity, centralized and distributed architectures, etc.
- **Evaluation platforms and tools:** open-source software for simulation and prototyping, useful tools and software frameworks, workflows for testbeds, reproducibility frameworks and benchmarking methodologies

The workshop will take place in-person in Würzburg, Germany on 6-8 October 2025. We encourage PhD students, early career scientists as well as senior researchers to contribute early state and ongoing research or previously published hot topic papers in the form of extended abstracts no longer than 3 pages, with 1 additional page for references. The goal of the workshop is to foster communication among researchers from industry and academia.

#### Program Overview

The program will include regular presentation sessions with ample time for questions and discussion. We will organize a **speedmentoring** session with invited experts from academia and industry. The workshop will start on Monday morning and finish Tuesday afternoon. Wednesday is organized as a PhD Day, tutorial-style talks, and (hands-on) experience sessions.

- Monday: **technical sessions, social event**
- Tuesday: **technical sessions, come-together**
- Wednesday: **PhD day** with the following topics

Introduction to Quantum Communication using Computer Science and Performance Evaluation (Karim Elsayed, Univ. Hannover)

Energy Measurements, Metrics, Models (Frank Loh, Tobias Hoßfeld, Univ. Würzburg)

Open RAN and 5G Campus Networks Setup & Measurements (Stanislav Lange, NTNU Trondheim)

Resilience and Sovereignty Metrics and Models (Carmen Mas Machuca, UniBw München)

**Workshop Date**  
6 – 8 October 2025

**Submission Deadline**  
11 July 2025

**Acceptance Notification**  
31 July 2025

**Registration Deadline**  
31 August 2025

**Workshop Website**  
<https://lsinfo3.github.io/WueWoWAS2025/>



#### Supporting Projects



#### Industrial Support



#### Technical Co-Sponsors

VDE ITG Expert Group KT2 "Communication Networks and Systems"

GI/ITG KuVS "Communication and Distributed Systems"