

MONDAY- Sept. 19th

TUESDAY- Sept. 20th

WEDNESDAY- Sept. 21st

09:00 **REGISTRATION AND WELCOME COFFEE**

09:30 **TUTORIAL 1 - Giovanni Interdonato and Carmen D'Andrea**
Beyond Massive MIMO in 6G communication networks: Cell-Free massive MIMO and Reconfigurable Intelligent surfaces.

10:30 **COFFEE BREAK**

11:00 **TUTORIAL 1 - Giovanni Interdonato and Carmen D'Andrea**
Beyond Massive MIMO in 6G communication networks: Cell-Free massive MIMO and Reconfigurable Intelligent surfaces.

12:00 **LUNCH**

13:30 **WELCOME AND CONFERENCE OPENING - Frank Fitzek**

13:45 **KEYNOTE 1 - Tommaso Melodia**
AI- based Control and Orchestration in O-RAN: Architectures, Algorithms, Testbeds.

14:45 **MAIN TRACK SESSION 1:**

- Reconfigurable Intelligent Surface and UAV- Assisted THz Mobile Communications.
- Cost and Correlation in Strategic Wireless Sensing Driven by Age of Information.
- Lightweight Compression for Severely Constrained IoT Devices.
- Implementation and Experimental Evaluation of Reed-Solomon Identification.

16:15 **COFFEE BREAK**

17:00 **MAIN TRACK SESSION 2:**

- Deep Reinforcement Learning for Uplink Multi-Carrier Non-Orthogonal Multiple Access Resource Allocation Using Buffer State Information.
- Federated Learning in UAV-Enhanced Networks Joint Coverage and Convergence Time Optimization.
- 5G NR Support for UAV-Assisted Cellular Communication on Non-Terrestrial Network.
- Optimal Continuous Trajectory Design for UAV-Assisted Reliable Communication Operating with Finite Blocklength Codes.

18:30 **WELCOME RECEPTION (BARBEQUE)**

09:30 **MAIN TRACK SESSION 3:**

- Resource Allocation with Stability Constraints of an Edge-Cloud Controlled AGV.
- Design and Prototyping Distributed CNN Inference Acceleration in Edge Computing.
- Impact of Softwarization in Microservices-Based SDN Controller.
- Transparent Storage Encryption in Kubernetes.

10:30 **COFFEE BREAK**

11:15 **SPECIAL SESSION 1 - Tactile Internet:**

- Human Perception Across the Lifespan as the Basis for a Tactile Internet for Everyone.
- Age-Related Differences in Perceptual Vibrotactile Quality Assessment of a Tactile Codec.

12:00 **LUNCH**

13:30 **INVITED SESSION :**

- Broadband MIMO Testbed for the Development and Research on 6G
- GRGym: A Playground for Research on RL/AL Enhanced Wireless Networks.
- Hierarchical Bandwidth Phase Modulation for Reduced Peak-To-Average Power Ratio in Ultra-Broadband Terahertz Communications.
- 5G InterOPERability of Open RAN Components in Large Testbed Ecosystem: Towards 6G Flexibility.
- Intelligent Closed-Loop RAN Control with xApps in OpenRAN Gym.

15:00 **COFFEE BREAK**

15:45 **KEYNOTE 2 - Florian Kaltenberger**
Private 5G Networks built on open source: achievements and challenges.

17:15 **Technical Panel - Experimenting in 6G**
Moderator: Abhimanyu Gosain, Senior Technical Program Director, Northeastern University

Panelist: Slawomir Stanczak, Coordinator 6G-RIC, HHI and TU Berlin Volker Ziegler, 6G leadership and Chief Architect, Nokia Bell Labs Florian Kaltenberger, EURECOM

20:00 **SOCIAL DINNER**

09:00 **SPECIAL SESSION 4 - Molecular Communications:**
Digital Simulator of the Human Arteries.

SPECIAL SESSION 7 - Joint Communications and Sensing in Wireless Systems:
Power Allocation Strategy for Joint Communications and Sensing in NOMA-Assisted Low-Latency Networks.

SPECIAL SESSION 2 - Quantum Communication Networks:

- Entanglement Assisted Classical Communication Link for Transmission of Pareto ON/OFF Time Series.
- Comparative Study of Quantum and Classical Error Correction for Future Quantum-6G Networks.

SPECIAL SESSION 8 (DEMO PAPERS):

- Ainur: A Framework for Repeatable End-To-End Wireless Edge Computing Testbed Research.
- A Joint Industrial-Network Simulator for Leveraging Automation in 5G Private Networks.
- 5G QoS Prediction and Application Offloading.

10:30 **SPECIAL SESSION 8 (DEMO SHOW) and COFFEE BREAK**

11:30 **KEYNOTE 3 - Holger Boche**
Towards Reliable AI: From Digital to Analog Hardware

12:30 **CLOSING SESSION - Frank Fitzek**

12:45 **LUNCH**