THE IEEE 5G WORLD FORUM IS NOW THE

IEEE Future Networks™ WORLD FORUM • 2022

MONTREAL, CANADA - 12-14 OCTOBER

Call for Papers

6G SYMPOSIUM

SYMPOSIUM CO-CHAIRS

Nancy Alonistioti, Chair, one6G,
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Founding Co-Chair, FNWF'2022,
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SCOPE AND MOTIVATION

The 5G network deployment aims at addressing the demand for faster and more effective wireless/cellular communication system. The 5G specification covers the main requirements of explosive data traffic, reliability and low latency in wireless and mobile communications. B5G/6G will drive another wave of new trends for the provision of huge data rate (+1Tbps), extremely low delay (0.1ms), the tight integration of the physical and the digital worlds, trustworthiness, sustainability and management automation.6G specification will have tighter dependencies from the vertical domain scenario conditions, thereby requiring highly adaptive techniques to fulfill the future needs of users. 6G networks are expected to capitalize on high-performance computing, quantum computing, AI/ML etc. Resource management will be crucial within 6G and the network complexity will pose a challenge, due to the very diverse applications and services such as ultraflow latency, the growing demand of high positioning accuracy, dense heterogeneous architectures, machine to machine communication, the embodiment of sensing in communication systems and contactless exchange of data etc.

TOPICS OF INTEREST

We invite submissions on a wide range of research topics, spanning both theoretical and systems research, including results from industry and academic/industrial collaborations, related but not restricted to the following topics:

- Recent Trends of 6G communication technology evolution
- Federated AI and Distributed Computing for6G
- Security and privacy challenges of 6G wireless communications
- Emerging 6G Technologies
- 6G Architecture
- 6G Physical layers
- 6G RAN
- 6G Core Network
- Softwarisation and virtualization
- Software-defined networking, 6G slicing and isolation
- Control algorithms
- 6G Network management
- Converged networks
- Heterogeneous networks
- High-speed/low-latency/long-range communications
- Self driving networks
- 6G for mobile Internet
- 6G D2D
- 6G Hybrid technology
- 6G Intelligence
- 6G innovation, testbeds
- 6G and sustainability
- Cyber-Phyical Systems networking in 6G environments
- Edge and fog computing/networking
- Network virtualization
- P2P and overlay networks
- Applications, service chaining, service provisioning
- Integrated data analytics and artificial intelligence
- IoT networks
- Convereged Aerial/sea/land communications

TPC MEMBERS

Prof. Adriana Lipovac
Prof. Timothy O'Farrell
Prof. Abdelaali CHAOUB
Prof. Lorenzo Mucchi
Prof. Mohammed El-Hajjar
Prof. Dr. Schahram Dustdar
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Prof. Petar Popovski
Dr Mikko Uusitalo
Dr. Jorge Pereira
Dr. Mauro Boldi Renato
Prof. Anna Tzanakaki
Prof. George Alexandropoulos
Dr. Artur Hecke

IMPORTANT DATES

Paper Submission: **21 August 2022 (firm)**
Notification: Rolling basis until 31 August 2022
Camera Ready and Registration: 7 September 2022

HOW TO SUBMIT A PAPER

All papers for technical symposia should be submitted via EDAS.

Full instructions on how to submit papers are provided on the IEEE FNWF 2022 website: https://fnwf.ieee.org/