

Call for Papers

Emerging Technologies for 6G (ET6G) Workshop

The 21st International Conference on Wireless Communications and Mobile Computing

Website: <http://iwcmc.org/2025/>

Submission Link: <https://edas.info/newPaper.php?c=32919>

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Scope

As 5G network is rapidly rolling out, global research into technologies that will support emerging use cases for the 6G of mobile communications is already underway. 6G will further enhance the 3 main scenarios of 5G, providing immersive communication, ultra-high reliability and low latency, and more powerful capabilities for massive connections. It will also expand on 3 major scenarios including ubiquitous connectivity, integrated sensing and communication, as well as communication and AI. These new scenarios bring new requirements for 6G communication networks, requiring the application of advanced technologies to meet the growing demand. Currently, many emerging technologies are likely to address the challenges in 6G, such as terahertz communication, artificial intelligence, quantum communication, and reconfigurable intelligent surfaces. The workshop aims to bring researchers and engineers from academia and industry together to discuss the emerging technologies in 6G communication network and submit their results and innovations.

Topics

Accepted papers will be published in the IEEE IWCMC 2025 proceedings and will be submitted to the IEEE digital library (IEEE Xplore). Authors are welcome to submit original papers (not published before and/or simultaneously to another venue) with topics that include but are not limited to:

- Channel coding toward 6G
- V2V and V2X
- Integrated access and backhaul (IAB)
- Massive MIMO
- Network architecture for 6G
- Massive connection and IoT
- Grant-free radio access and data transmission

- Self-organizing networks (SON)
- Application of AI in wireless networks
- Advanced channel estimation techniques
- Next generation broadcasting technologies
- Visible light communications (VLC)
- Terahertz (THz) communication
- Reconfigurable intelligent surfaces (RIS)
- Mobility and high efficiency hand-over
- Emerging technologies for secure communication
- Satellite communication
- Computing Network
- Powering saving for network
- Quantum communications

Submitted papers are encouraged to address novel technical challenges or industrial and standard aspects of the key technologies for 6G.

Important Dates

Deadlines will follow the main conference announced dates.

Note: Within this workshop, there will be one Best Paper Award.