

Call for Papers

Advances in Beyond 5G Communications Symposium

The 16th International Conference on Wireless Communications and Mobile Computing

IWCMC 2020

IWCMC 2020 Website: <http://iwcmc.org/2020/>

Submission Link: <https://edas.info/newPaper.php?c=26206>

Limassol, Cyprus

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Technically sponsored by: IEEE and IEEE Lebanon Section

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Scope

As 3GPP is finalizing on Release 16 of its 5G standard and commercial 5G networks under way, researchers from both academy and industry are moving forward to study advanced technologies for the next generation of wireless communication networks. With the development of advanced channel coding schemes, better designed network structures, implementation of artificial intelligence into communications and advanced channel estimation techniques for massive MIMO, we're expecting even higher data rate, lower latency, higher reliability and less energy consumption in the era of B5G. New applications such as V2X and URLLC have emerged quickly, calling for more creative designs like the integrated access and backhaul and the self-organizing networks.

The objective of this symposium is to stimulate discussion on the cutting-edge technologies in wireless communications which can help the industry to move another step forward from the 5G era. Papers regarding the modeling, designing, implementation, deployment and management of such potential technologies, system architectures and protocols are welcome.

Topics

Accepted papers will be published in the IEEE IWCMC 2020 proceedings and will be submitted to the IEEE digital library (IEEE Xplore). Authors are welcome to submit papers with topics that include, but are not limited to:

- New waveform design and coding for Beyond 5G
- Vehicular communications; V2X
- Integrated access and backhaul (IAB)
- Massive MIMO, Cell-free massive MIMO, Distributed MIMO
- Network architecture for 5G and beyond
- URLLC
- Low complex transceivers for Beyond 5G
- Massive connectivity in B5G
- Machine-type communication and IoT
- Grant-free radio access and data transmission
- Non-orthogonal multiple access (NOMA)
- Self-organizing networks (SON)
- AI-based transceivers in B5G
- Application of AI in wireless networks
- Advanced channel estimation techniques
- Co-existence between 5G/B5G and incumbent service
- Visible light communications (VLC)
- Free space optical (FSO) communications
- Terahertz (THz) communication
- Network slicing
- Advanced receivers for high mobility

Important Dates

Submission:	February 10, 2020
Acceptance notification:	March 30, 2020
Camera-ready paper submissions:	April 30, 2020

Submission Guidelines

Prospective authors are invited to submit original technical papers—up to 6 pages of length, using the EDAS link: <https://edas.info/newPaper.php?c=26206> for possible publication in the IWCMC 2020 Conference Proceedings, which will be submitted to the IEEE Xplore. Selected papers will further considered for possible publication in three special issues in the following Journals. For more information, visit: <http://iwcmc.org/2020/>

1. The International Journal of Sensor Networks (IJSNet)
<http://www.inderscience.com/browse/index.php?journalCODE=ijsnet>
2. The International Journal of Autonomous and Adaptive Communications Systems (IJAACS)
<http://www.inderscience.com/jhome.php?jcode=ijaacs>
3. KSII Transactions on Internet and Information Systems: <http://www.itiis.org/>
4. Peer-to-Peer Networking & Applications:
<http://www.springer.com/engineering/signals/journal/12083>
5. Cyber-Physical Systems journal: www.tandfonline.com/loi/tcyb20

Note: There will be best paper award, best Symposium award and best Workshop award.