

Call for Papers

AI Empowered Future Communications & Signal Processing (AIFSP) Workshop

The 19th International Conference on Wireless Communications and Mobile Computing

Website: <http://iwcmc.org/2023/>

Submission Link: <https://edas.info/newPaper.php?c=30217>

June 19-23, 2023, Marrakesh, Morocco

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Scope

Artificial intelligence (AI) techniques, especially the deep learning methods, have achieved tremendous success in various applications across different fields, such as image identification, video recognition and natural language processing, to name just a few examples. For the next generation of wireless communications and signal processing, researchers have proposed AI/ML models and algorithms that replace individual or even multiple blocks of the signal processing chain, which have shown significant performance gains even under extreme radio channel conditions. Yet this potential revolution also implies substantial challenges from a design and testing perspectives. However, it is well believed that the power of AI techniques has not yet been fully exploited for the design of wireless communications and signal processing systems, which calls for more creative and innovative ideas.

Topics

Accepted papers will be published in the IEEE IWCMC 2023 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 include but are not limited to:

- AI-based network design and resource allocation in 6G
- AI-based next generation multiple access
- AI-based physical layer design for 6G
- AI-based data processing
- AI-based integrated sensing and communications
- AI-based mobile user behavior analysis and inference
- AI-based semantic communication methods
- Over-the-air access for future communications and networking
- Distributed ML for future communications and networking

- AI-based Signal Processing for Intelligent Communications

Submitted papers are encouraged to address novel technical challenges or industrial and standard aspects of the key technologies Artificial Intelligence Empowered Future Communications and Signal Processing.

Important Dates

Submission:	January 10, 2023
Acceptance notification:	March 30, 2023
Camera-ready paper submissions:	April 30, 2023

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