

Call for Papers

From Cognitive to Intelligent: Recent Advantages in Communication, Computation and Sensing workshop

*The 17th International Conference on Wireless Communications and Mobile
Computing
IWCMC 2021*

IWCMC 2021 Website: <http://iwcmc.org/2021/>

Submission Link: <https://edas.info/newPaper.php?c=27588>

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Scope:

With the great success of Artificial Intelligence(AI) in natural image recognition, communication and signal processing technology based on AI have received more and more attention. Compared with classical schemes for communication, computation and sensing, the main advantages of AI based schemes consist in the performance and efficiency improvement to a great extent. As such intelligent algorithms, systems and platforms have been and are constantly being investigated and solution pursued and proposed constantly.

This workshop is inviting contributions that fall into this context, whether these are algorithms, systems or platforms that are high-performance, effective and intelligent for communication, computation and sensing. The scope of this workshop includes (but not limited to) the following topics:

- Machine/deep learning for signal detection, channel modeling, estimation, interference mitigation, and decoding
- Machine/Deep Learning for Video Compression and Communication
- Signal Processing for radar and communication systems
- Resource and network optimization with machine learning techniques

- Distributed learning algorithms and implementations over realistic communication networks
- Machine learning techniques for application/user behavior prediction and user experience modeling and optimization
- Machine learning for emerging communication systems and applications, such as drone systems, IoT, edge computing, caching, smart cities, and vehicular networks
- Machine learning for transport-layer congestion control
- Machine learning techniques for information-centric networks and data mining
- Machine learning for network slicing, network virtualization, and software defined networking
- Performance analysis and evaluation of machine learning techniques in wired/wireless communication systems
- Secure machine learning over communication networks

Important Dates:

- Paper Submission Deadline: 10 January 2021
- Paper Acceptance Notification: 30 March 2021
- Camera-ready Paper Submissions: 30 April 2021
- Registration Deadline for Authors: 30 April 2021