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Non-orthogonal Transmission Technologies for Ubiquitous Sensor Networks

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Deadline for manuscript submissions:
closed (5 May 2024)

Message from the Guest Editors

Future sensor networks will witness a paradigm shift towards heterogeneous devices, massive connections, and ubiquitous distributions as we progress towards 2030. Existing wireless transmission technologies suffer from restricted connectivity, expandability, and spectral efficiency. There is a growing interest in technologies capable of overcoming these challenges. Non-orthogonal transmission techniques allow multiple users to share the same transmission media, providing additional degrees of freedom for efficient communication. The aforementioned requirements for future sensor networks could be fulfilled by the novel non-orthogonal physical-layer technologies (e.g., non-orthogonal multiple access, waveforms, and precoding). Novel recently developed ideas have triggered the evolution of transmission technologies for future ubiquitous sensor networks. This Special Issue of *Sensors* aims to collect state-of-the-art research papers on topics including but not limited to:

- NOMA
- modulation design
- multi-user communication
- MIMO
- integrated space–air-ground network
- satellite communications
- machine learning
- edge computing

mdpi.com/si/114924

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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