

## Special Issue

# Advanced MIMO Antenna Technologies for Intelligent Sensing Networks

### Message from the Guest Editors

The integration of sensing and communication is expected to play a central role in future wireless systems. Antenna technologies, in this context, are required not only to support data transmission but also to enable environmental awareness, localization, and imaging. This Special Issue is dedicated to research on Multiple-Input Multiple-Output (MIMO) antenna architectures addressing these combined requirements. Contributions may include work on the use of massive MIMO for target detection, as well as studies on fluid antennas that offer flexible beamforming in dynamic environments. Other topics of interest are methods for reducing signaling overhead in joint communication and sensing (JC&S) systems, solutions for radio-to-fiber interfaces supporting distributed antenna deployments, and signal processing approaches for data fusion. This Special Issue will provide a broad overview of current advances in hardware and algorithms for MIMO-based sensing networks, with potential applications in areas such as smart cities, autonomous systems, and industrial IoT.

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### Guest Editors

Dr. Jose Monserrat

ITEAM Research Institute, Universitat Politècnica de València, Valencia, Spain

Prof. Dr. Lin Bai

School of Cyber Science and Technology, Beihang University, Beijing 100191, China

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto:sensors@mdpi.com)

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### Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro  
Department of Electrical and Information Engineering, Politecnico di  
Bari, Via Orabona 4, 70126 Bari, Italy

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