Special Issue

Millimeter-Wave Antenna Arrays: From Design to Applications

Message from the Guest Editors

Millimeter-wave (mmWave) technology has emerged as a cornerstone for next-generation wireless communication systems, enabling ultra-high data rates, low latency, and massive connectivity. With the rapid deployment of 5G and the ongoing development of 6G, mmWave antenna arrays play a pivotal role in achieving the desired performance metrics for future wireless networks. This Special Issue brings together cutting-edge research on topics such as beamforming, massive MIMO, reconfigurable antennas, metamaterial-based designs, and integration with RF circuits. Additionally, it explores emerging applications in areas like autonomous vehicles, smart cities, IoT, and beyond. By bridging the gap between theoretical research and real-world applications, this Special Issue aims to provide a comprehensive resource for researchers, engineers, and industry professionals working at the forefront of mmWave technology. Contributions include original research articles, review papers, and case studies that highlight the transformative potential of mmWave antenna arrays in shaping the future of wireless communication.

Guest Editors

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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