Special Issue

Antennas for Next-Generation Electromagnetic Applications

Message from the Guest Editors

This Special Issue focuses on emerging trends in antenna technology, emphasizing its role in enabling next-generation applications. The aim of this Issue is to highlight how innovative antenna designs and methodological frameworks are redefining the field of applied electromagnetics.

Recommended topics include, but are not limited to, the following:

- Biomedical antennas for health monitoring, diagnostic imaging, and therapeutic systems.
- Reconfigurable and adaptive antenna arrays for enhanced wireless environments and real-time reconfigurability.
- Near-field communications and sensing solutions that unlock new potential in high-precision localization, security, and wearable technologies.
- Integrated sensing and communication to unify their capabilities.
- Advances in antenna miniaturization, additive manufacturing, and ultra-wideband, low-power, and energy-efficient designs for future 5G/6G and vehicular communication systems.

This Special Issue aims to foster interdisciplinary collaborations and inspire groundbreaking innovations in the field of antennas and applied electromagnetics.

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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.

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