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Application of Symmetry in Innovative Microwave/Millimeter-Wave/THz Antenna, Circuit and Radar System

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Deadline for manuscript
submissions:

30 June 2024

Message from the Guest Editors

Dear Colleagues,

Next-generation communication technologies such as 5G, B5G and 6G are among the most important technologies for the future. Advanced antenna and RF front-end systems are key technologies that can meet the demanding requirements for next-generation communications. This Special Issue aims to highlight the application of symmetry in innovative microwave/millimeter-wave/THz antenna, circuit and radar systems. Authors are kindly invited to submit their contributions to this Special Issue on topics including, but not limited to, the following:

- (1) Sub-6GHz/mmWave technology for 5G antennas;
- (2) Sub-THz technology for 6G antennas;
- (3) Active or passive circuits such as filters, power dividers, duplexers, amplifiers, etc.;
- (4) Symmetrical metasurfaces or metamaterials applied in innovative antenna designs;
- (5) Radar system simulation and waveform design;
- (6) LEO satellite antenna arrays/phased arrays.



mdpi.com/si/175619

Special Issue



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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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