Special Issue

Challenges and Future Trends in Antenna Technology

Message from the Guest Editor

To meet the requirements for the latest transceiver generations, designers should carefully consider the new challenges and future trends in recent antenna technologies. Massive MIMO antenna systems and the use of high-frequency bands, such as mmWave and terahertz frequencies, have been investigated to a substantial degree as key technologies for future wireless applications. Using new physical materials, such as reconfigurable intelligent surfaces (RISs) and metamaterials, is another requirement for these applications. This not only brings challenges on the design level but also to the simulation, manufacturing, test, and measurement stages to obtain a sensible target for the prototypes. This Special Issue invites academic researchers, industrial R&D, and engineers to contribute original research articles as well as review papers that seek to address the challenges and future trends in the design and application of new antenna technologies for 5G and beyond systems to support the large demands of this fast-evolving era.

Guest Editor

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