Special Issue

Application of Antennas and Filters in Wireless Sensing and Communication

Message from the Guest Editor

The new topology is combined with microstrip filter (filtenna) so that the overall size of the transceiver can be reduced and the capability of antennas as an antenna filter improved. Based on the filtenna and defected ground structure (DGS) method, new generations of wearable smart antennas with interesting roles can be developed, simulated, optimized, and tested. These new smart devices and smart textiles, along with broadband mobile technologies, can empower wearable sensors with a significant impact on the future of digital healthcare. Despite the recent evolution in this field, challenges related to lack of precision, reliability, user comfort, rigid form, and challenges in data analysis and interpretation have limited their wide-scale application. Therefore, it is necessary to develop a new, reliable, and user-friendly approach in facing these problems. Research topics of interest are (but are not limited to):
microstrip filters;
planar antennas;
sensors;
healthcare sensing;
wireless sensor networks;
sensing technologies;
underwater wireless sensor network (UWSN);
defected ground structure (DGS);
DGS-planar filter using MEMS technology;
filtenna

Guest Editor

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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