Special Issue

Sensors and Digital Modulation in Modern Life: Antenna Design and Massive MIMO Systems

Message from the Guest Editor

In recent years, Massive MIMO techniques have received considerable research interest from both academia and industry and are being employed as a key enabling technology for 5G more and mre often and are the subject of intensive research investigations for the upcoming 6G system in order to achieve those requirements. However, the aesthetic needs and size restrictions that require the antenna arrays to become smaller have introduced some serious drawbacks. To combat the mutual coupling effects, the antenna research community has introduced numerous techniques that utilize artificial materials, special signal filtering designs, and many others techniques. These designs are mainly focused on traditional MIMO systems. Therefore, it is mandatory to develop cost-effective antenna arrays operating in the sub-6 GHz and millimeter wave bands region to deploy increasing numbers of antennas in fixed physical space for both the base station and user terminals, including antennas installed on vehicular platforms. This Special Issue addresses all types of antenna arrays designed for Massive MIMO systems at the base station and/or user terminals and their performance metrics.

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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