Special Issue

Antenna Array Design for Wireless Communications and Remote Sensing

Message from the Guest Editor

Antenna arrays have attracted growing attention in many applications for wireless communications and remote sensing. With the rapid development of technology in modern radio systems, antenna arrays are required to meet progressively more stringent specifications in terms of architecture complexity, high-gain multi-beam characteristics, and low scan losses. To achieve multi-functional operation and high data rates, wideband and/or multiband antenna arrays are key. The overall system cost can be reduced if the integrated antenna array can operate at multiple bands concurrently with electronically controllable radiation pattern characteristics. This Special Issue focuses on array synthesis, design, and measurement techniques; in particular, solutions for joint communication and sensing systems are solicited. Potential topics include but are not limited to the following:

- Array antenna technology
- Near- and far-field synthesis techniques for regular and aperiodic arrays
- Antenna mutual coupling
- Array beamforming network design
- Array measurements and calibration
- Joint communication and sensing systems

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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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