Special Issue

Toward Next-Gen Secure Millimeter-Wave Radar Sensors

Message from the Guest Editors

The recent advancements in humanlike sensing technologies have paved the way for smart technology in various sectors of day-to-day living such as healthcare, infrastructure, and the automobile industry. Among the various sensing modalities such as cameras and Lidars, millimeter-wave radars offer a competitive advantage due to their low cost, small form factor, all-weather performance, and ability to be installed behind support structures. Unmodulated and modulated continuous-wave (CW) radars are widely used due to their ability to measure the target's range, velocity, angle-of-arrival (AoA), and size (radar cross-section). Aided by machine learning techniques, CW radars are also used to classify different objects. With the aggressive push toward automation and connected infrastructure in the Internet-of-Things (IoT) era, millions of radars are deployed in various applications. This Special Issue highlights research work that addresses the vulnerability of millimeter-wave radars to various electronic countermeasure (ECM) scenarios, and the progress in radar hardware and signal processing techniques to effectively counter any ECM threats.

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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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