

Special Issue on
Reconfigurable Wireless Communication

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The ever increasing demand for high-performance mobile communication continuously challenges the wireless community, which gives rise to the concept of 5G communication. Recently, several advanced technologies, such as massive MIMO and millimeter-wave communication, have gained considerable amount of attention. As a potential powerful solution, reconfigurable wireless communication technologies, including smart antennas, tunable devices, and software-defined networks, have made great progress in the past decades. By means of varieties of approaches, wireless communication systems are able to achieve flexible operation in a reconfigurable way, including multistandards, large coverage, and high speed with improved energy efficiency. According to the state of the art, many advanced applications have been developed in the realistic engineering such as beam steering antenna systems for the SatCom-on-the-Move. However, many challenges still exist for achieving even higher performance and lower cost.

The purpose of this special issue is to publish high-quality research articles as well as reviews focusing on the topic of reconfigurable wireless communication technologies and addressing the recent development in this field.

Potential topics include but are not limited to the following:

- ▶ Design technology of smart/reconfigurable antennas and RF devices
- ▶ Numerical simulation method for reconfigurable wireless communication systems, networks, or devices
- ▶ Fabrication technology for reconfigurable antennas and RF devices
- ▶ Reconfigurable wireless power transfer/harvesting theory and technology
- ▶ EMC technology for reconfigurable wireless communication systems
- ▶ Reconfigurable radar theory and technology
- ▶ Channel modelling and estimation for reconfigurable wireless communication systems
- ▶ Signal detection and estimation for reconfigurable wireless communication systems
- ▶ Integrated communication and positioning for reconfigurable wireless communication systems

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