Special Issue

Advances in Reconfigurable Intelligent Surfaces and Wireless Communications

Message from the Guest Editors

The reconfigurable intelligent surface (RIS) has emerged as a promising new paradigm for sixth-generation (6G) communication. As a fundamental key technique with great potential, an RIS has the characteristics of low cost, low power consumption, and easy deployment. Integrating many low-cost, passive reflection elements in a plane and reconfiguring the wireless electromagnetic wave propagation environment intelligently greatly increases the design freedom of the communication system, significantly improving the performance of the wireless communication network. This Special Issue aims to disseminate the latest theoretical and experimental works of RISs for 6G wireless networks. Topics of interest include, but are not limited to:

- Performance analysis of RIS communication networks;
- Channel modeling and channel estimation for RIS communication networks;
- Joint design of integrated sensing and communication based on RIS technologies;
- RIS-assisted dense heterogeneous networks;
- RIS-assisted relay communication networks;
- RIS selection and resource allocation;
- RIS technologies for edge green communication;
- RIS communication based on energy harvesting...

Guest Editors

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Deadline for manuscript submissions

closed (15 August 2024)

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Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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