# Special Issue

# Reconfigurable Intelligent Surfaces for Real-World Wireless Communication

## Message from the Guest Editor

Since the beginning of the study of reconfigurable including metasurface structures, there has been a lot of research on RISs to utilize them for wireless communication. Despite all the research being conducted on RISs, there still exist several technical issues. For example, how to sense and estimate the channel state information, how to accurately model the EM characteristics of RISs in the channel, how to implement cost-effective and controllable RISs, and how to efficiently implement the RIS control board, all remains contentious issues. In this Special Issue, we will cover a variety of research findings for implementation in real-world wireless environments to address the technical challenges of RISs. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Hardware implementation of RISs;
- Implementing RISs with sensing and control;
- Active or hybrid RIS structure;
- Measurement system of RISs;
- Wideband or multifunctional RISs;
- Transparent RISs;
- Codebook implementation of RISs;
- Power-saving or -harvesting RISs.

I look forward to receiving your contributions.


## Guest Editor

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## Deadline for manuscript submissions

closed (15 May 2025)


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# About the Journal

## 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.

## Editor-in-Chief

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