Special Issue

Smart Electromagnetic Skins and Their Applications

Message from the Guest Editors

Smart electromagnetic skins (SESs) are low-cost planar or conformal surfaces, with a texture comprising many elements, in case sub-wavelength, arranged in such a way that they provide an anomalous reflection (or transmission), according to which the incident field is re-directed in a pre-defined direction, covers the desired area, or has a specified spatial distribution (e.g., with nulls in some directions). The aim of the Special Issue is to draw attention to the design and realization of smart electromagnetic surfaces and to their potential applications.

- Static SES design techniques;
- Static SES technological aspects;
- RIS design techniques;
- RIS technological issues;
- Optimization techniques applied to the design of SESs and/or RISs;
- Numerical techniques for the analysis of the SESs;
- Static/dynamic SESs application in 6G communication systems;
- Other SES applications;
- Numerical techniques for the analysis of the SESs coverture and environment influence;
- In-field SESs experimental characterization.

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closed (31 December 2023)

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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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