

<https://ew2022.european-wireless.org/>

CALL FOR PAPER

Special Session on Reconfigurable Intelligent Surfaces

Session Committee

- Hans Dieter Schotten (TU Kaiserslautern) – Schotten@eit.uni-kl.de
- Vincenzo Sciancalepore NEC Laboratories Europe - Vincenzo.Sciancalepore@neclab.eu
- Bin Han (TU Kaiserslautern) - Bin.Han@eit.uni-kl.de
- Christoph Lipps (DFKI) - Christoph.Lipps@dfki.de

Scope and Motivation

Among the frequently discussed topics in the development of the Sixth Generation (6G) Wireless Systems is the feasibility and investigation of Reconfigurable Intelligent Surface (RISs), surfaces consisting of multiple, mostly passive, elements capable of enabling the dynamic control of electro-magnetic wave propagation. In wireless communications, RIS are attributed to the implementation of programmable and reconfigurable wireless propagation environments, i.e., wireless environments that are not considered and treated as random, uncontrollable entities but become part of the network design parameters that are optimized to meet various performance metrics and quality of service requirements to meet the stringent requirements of 6G networks. This special session is designed to promote the dissemination of innovative and unpublished research contributions on analytical and algorithmic tools, testbed implementations, experimental activities, as well as to contribute to the discussion and advancement of new ideas related to the understanding and development of RIS for various applications in wireless communications and networks.

Topics of Interest

This Special Session aims to encourage research and innovation in the modeling, analysis, design, and development of RIS. The Session welcomes original, previously unpublished research that addresses the theoretical and practical aspects of RIS. Topics of interest include:

- Fundamental Theory for RIS-based Communications
- Prototypes and Test-Beds for RIS-based Communications
- RIS-based Architectures and Interfaces
- RIS-based Indoor/Outdoor Localization
- Algorithms and Protocol Design and Optimization
- Electromagnetic Field exposure minimization
- Security Aspects and Applications of RISs

Important Dates:

Paper

Deadline for paper submission: 16st May 2022
Deadline for paper submission (Special Sessions) 30th May
Date for notification: 15th June 2022
Deadline for final paper submission: 15th July 2022

Tutorial

Deadline for tutorial proposals: 1st April 2022
Date for notification: 15th May 2022

Sponsors and Supporters

