

Special Issue

Design and Applications of Nonlinear Circuits and Systems

Message from the Guest Editors

The development of nonlinear circuits and systems and the associated mathematical modeling is a topic of continuous research interest due to its highly interdisciplinary nature. The development of novel nonlinear circuit theoretical concepts has led to the development of many new applications. The aim of this Special Issue is to collect original research articles, as well as review articles, on the most recent developments and innovations in this field, with specific focus on multidisciplinary and interdisciplinary applied research. The topics of interest include (but are not limited to):

- Applications of nonlinear theory in energy conversion and power electronics;
- Applications of nonlinear networks in control systems;
- Applications of nonlinear systems in chaos, complexity, and optimization;
- Applications of nonlinear systems in telecommunications and information theory;
- Applications of nonlinear systems in cryptography and cybersecurity;
- Applications of nonlinear systems in neuromorphic computing, biology/biomedicine, and computational bioinformatics;
- Innovative applications of nonlinear circuit theory.

Guest Editors

Prof. Dr. Costas Psychalinos

Prof. Dr. Ahmed S. Elwakil

Prof. Dr. Abdelali El Aroudi

Prof. Dr. Esteban Tlelo-Cuautle

Deadline for manuscript submissions

closed (15 November 2024)



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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2024).