Special Issue

Recent Advances in Chaotic Systems and Their Security Applications

Message from the Guest Editors

Chaotic systems have long been integrated into security-related applications. Due to their deterministic nature, highly complex dynamics, and sensitivity to initial conditions and parameter changes, they constitute an efficient tool for masking information. The aim of this Special Issue is to explore recent trends and developments in chaos-based encryption schemes. Contributions can address any type of chaotic system and all applications related to information masking and security. Review articles focused on specific applications or methods are also welcome. Potential topics include but are not limited to the following:

- Continuous, discrete time, and fractional order chaotic systems;
- Different chaos synchronization and antisynchronization techniques;
- Chaotic systems with hidden attractors;
- Secure communications;
- Signal encryption;
- Random number generation;
- Entropy-based cryptography;
- Message authentication;
- Digital signature;
- Hardware implementations of encryption designs;
- Any other security-related engineering application.

Guest Editors

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Deadline for manuscript submissions

closed (31 October 2021)

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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.

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 2.4 days (median values for papers published in this journal in the first half of 2025).

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