Special Issue

Energy-Efficient and Reliable Information Processing: Computing and Storage

Message from the Guest Editor

Recently, artificial intelligence (AI) systems have begun to approach and exceed human performance in many intelligent tasks. The successes of AI are mainly based on computations using massive amounts of data. Two pillars of modern AI systems are computation and data, and this information processing has to take place efficiently and reliably. The main aim of this Special Issue is to seek high-quality submissions that address energy-efficient and reliable computing and data storage systems. The topics of interest include, but are not limited to:

- Fundamental limits of information processing: Computing and storage
- Stochastic computing, approximate computing, Shannon-inspired computing, fault-tolerant computing, error-resilient computing, and neuromorphic computing
- In-memory computing and near-data computing
- Distributed computing and storage systems
- Channel coding and signal processing for data storage

Welcome to contribute!

Guest Editor

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Deadline for manuscript submissions

closed (31 March 2019)

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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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