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Analog

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Journal Information

Analog technology is a critical bridge between the physical world and digital systems. Advancing the design of precision circuits—from CMOS integrated circuits and RF switches to quantum analog devices—enables accurate sensing, signal processing, and practical actuation. *Analog* aims to present cutting-edge research related to all aspects of analog signals, electronics circuits, computing, devices, and architectures, as well as other applications of analog technologies. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. We look forward to receiving your contributions.

Looking for an Editor-in-Chief

Aims

Analog (ISSN 3042-8491) is an international, peer-reviewed, open access journal dedicated to publishing research in the field of analog signals, electronic circuits, computing, devices, architectures, and related technologies. It also covers the novel application of these technologies across diverse fields such as communications, consumer and automotive electronics, industrial control, power management, sensor interfaces, test and measurement, and biomedical systems. The journal publishes regular research papers, reviews, and communications, but other article types will also be considered. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers. Full experimental details must be provided so that the results can be reproduced.

Scope

The research areas covered by the journal include, but are not limited to, the following:

- Analog electronic circuits
- Linear and non-linear analog circuits and systems
- CMOS analog integrated circuits
- Analog signal processing
- Current-mode signal processing
- Sampled-data analog circuits and oversampled systems
- Analog-to-digital and digital-to-analog converters
- Analog-based modeling and characterization of physical systems (e.g., sensors, actuators, energy conversion devices)
- Design and analysis methodologies for analog circuits
- Design automation of analog integrated circuits
- Analog circuit simulation and modeling
- RF and mm-wave integrated circuit design
- Phase and delay locked loops for on-chip synchronization
- Reconfigurable Intelligent Surfaces (RISs) and analog beamforming
- Power generation, delivery, and management
- Analog, power, and RF devices
- Neuromorphic engineering and bio-inspired analog circuits
- Memristor-based circuits and systems
- Quantum analog circuits and systems
- Analog circuits and design methodologies for beyond-CMOS technologies

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