Special Issue

Low Power Analog and Mixed-Signal Circuits for Edge Computing

Message from the Guest Editor

In recent decades, the emergence of Internet-of-Things (IoT) and smart sensors applications have necessitated the development of energy efficient and high-performance edge sensing/computing circuits. A battery-powered IoT sensor node typically consists of power management circuits, analog front-end, data converters, computing macro., etc. Given the requirement of less power and relatively low precision, it is feasible to consider analog and mixed-signal computing for low-SNR applications, which can be more efficient than digital methods. Thus, mixed-signal computing methods have been garnering increasing attention.This Special Issue aims to publish the latest findings, new research developments, and future trends and innovations in the design, estimation, control, and optimization of low-power analog and mixed-signal integrated circuits, and their applications in the Internet-of-Things devices. We welcome theoretical and experimental studies, as well as review papers.

Guest Editor

Dr. Xiangxing Yang

Department of Aerospace Engineering & Engineering Mechanics, University of Texas at Austin, Austin,TX 7871, USA

Deadline for manuscript submissions

closed (15 April 2024)

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/184641

Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

mdpi.com/journal/electronics

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/journal/electronics

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 guestedited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

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).

MDPI