

Topical Collection

Analog IC Design—Analog and RF Interface for Electronic Systems

Message from the Collection Editors

Analog interface circuits are integrated in almost all consumer, industrial, automotive, and medical devices with sensing capability, whereas RF interfaces enable device-to-device connections or connection to a local-area network or the internet. Even if nowadays, radio communication systems are mostly digital, they still need to be interfaced with antennas and, therefore, dedicated circuits such as low-noise amplifiers and RF power amplifiers are mandatory. Special mention must be made of circuits used to link the analog and digital domains, such as the A/D and D/A converters, which have experienced impressive performance improvements in terms of speed, resolution, silicon area, and power consumption in recent decades. In summary, the digital computation and storage capability embedded in electronic devices are strictly correlated with the world of analog and RF interfaces. This Special Issue focuses on the analysis, design, and implementation of analog and RF interface circuits, integrated in CMOS or BiCMOS silicon technologies.

Collection Editors

Prof. Dr. Andrea Boni

Department of Engineering and Architecture, University of Parma,
43124 Parma, Italy

Dr. Michele Caselli

Department of Electrical Engineering (ESAT), KU Leuven / imec vzw
(IMEC), Kapeldreef 75, B-3001 Leuven, Belgium



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/77947

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

[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)





Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



[mdpi.com/journal/
electronics](https://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 guest-edited 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).