

## Special Issue

# Emerging Techniques and Applications for Analog and Mixed-Signal Integrated Circuits

### Message from the Guest Editors

Integrated circuits (ICs) are the critical enablers of today's cutting-edge technology and applications as they continue to drive innovation across industries. We focus on recent advancements in Analog and Mixed-Signal (AMS) IC design and their applications in diverse sectors, including communications, healthcare, artificial intelligence (AI), and the Internet of Things (IoT), just to name a few. We invite contributions that highlight advances in AMS IC design techniques and demonstrate novel design methodologies, improved circuit topologies, and practical applications of AMS ICs in these strategic sectors and related fields. Sought contributions may include, but are not limited to, the following:

- Advanced IC design techniques;
- Novel AMS circuit architectures;
- Analog design automation;
- Ultra-low-power designs for IoT applications;
- Sensor interface circuitry;
- ICs for emerging computing paradigms;
- Biomedical front ends;
- In-memory/near-memory computing architectures.

### Guest Editors

Dr. Mohamed Balla Elamien

Prof. Dr. Ahmed S. Elwakil

Prof. Dr. Costas Psychalinos

Dr. Mohammad Alhawari

### Deadline for manuscript submissions

15 November 2025



## Electronics

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## 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.

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### Editor-in-Chief

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