

Special Issue

Mixed Signal Circuit Design

Message from the Guest Editors

Today, high-performance and energy-efficient electronic devices are mainly based on mixed-signal integrated circuits (ICs) that handle both analog and digital signal processing. Mixed-signal ICs containing both analog circuits and digital circuits are typically cost-effective solutions for building high-speed and low-power electronic systems. Recently, the complexity of mixed-signal design is getting further exacerbated in heterogeneous integration of different dies for three-dimensional (3D) ICs. The importance of mixed-signal design in next-generation system-on-chip (SoC) systems is ever increasing. This Special Issue focuses on advance analog, RF, and mixed-signal circuit designs. The topics of primary research include, but are not limited to, the following: High-speed I/O circuits; Advanced clocking circuits; Data converters: ADCs and DACs; Integrated sensor ICs; Internet of Things (IoT) applications; Low-power and low-voltage circuits; RF circuits and building blocks; Heterogeneous integration circuits and systems; Power management integrated circuits (PMICs); Signal integrity and power integrity techniques.

Guest Editors

Prof. Dr. Jongsun Kim

School of Electronic & Electrical Engineering, Hongik University, Seoul 121-791, Republic of Korea

Prof. Dr. Hyunchol Shin

Department Electronic Convergence Engineering, Kwangwoon University, Seoul 01897, Republic of Korea

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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

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