Special Issue

Fault-Tolerant Design and Applications of Electronic Circuits and Systems

Message from the Guest Editor

Electronic circuits and systems used in many real-world safety-critical applications such as space, aerospace, defense, nuclear power plants, electric power transmission and distribution, industrial control and automation, and banking and finance etc. usually involve fault-tolerant design at the hardware and/or software level for enhanced reliability. Fault-tolerant design is essential to cope with the faults or failures of circuits and systems. Fault-tolerant design involves some form of redundancy which may be static or dynamic or a mix of both. This special issue aims to deal with recent advances in fault-tolerant design at the hardware and software levels. Given this, we invite high quality academic and industrial research work on all aspects of fault-tolerant design and reliability. The topics of interest include but are not limited to:

- Methods for assessing reliability of devices, circuits and systems
- Fault tolerance in low power electronics: microelectronics, nanoelectronics and optoelectronics
- Fault tolerance in renewable energy systems including solar, wind, wave, geothermal etc.

Guest Editor

Dr. Padmanabhan Balasubramanian College of Computing and Data Science, Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798, Singapore

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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.

Editor-in-Chief

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

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