Special Issue

Stochastic Computing and Its Application

Message from the Guest Editors

Stochastic computing is a paradigm that leverages the principles of randomness and probability to perform complex computations using simple hardware. Modern applications, including machine learning, neural networks, image processing, and signal processing, have demonstrated the potential benefits of stochastic computing.

This Special Issue highlights innovative approaches, theoretical developments, and practical implementations that leverage stochastic computing techniques, aiming to foster a deeper understanding of stochastic computing's potential and inspire future advancements. Research areas may include (but are not limited to) the following:

- Theoretical Foundations;
- Hardware Design;
- Energy-Efficient Computing;
- Fault Tolerance and Robustness;
- Applications in Machine Learning;
- Signal Processing;
- Neuromorphic Computing;
- Approximate Computing

We look forward to receiving your contributions.

Guest Editors

Prof. Dr. Hongge Li

College of Electronic Information Engineering, Beihang University, Beijing 100191, China

Dr. Kaining Han

National Key Laboratory of Wireless Communications, University of Electronic Science and Technology of China, Chengdu 610054, China

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

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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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