

Special Issue

Hardware for Machine Learning

Message from the Guest Editors

This Special Issue focusses on hardware and circuit design methods for machine learning applications. It will include invited papers that will cover a range of topics—the large-scale integration of CMOS mixed-signal integrated circuits and nanoscale emerging devices, to enable a new generation of integrated circuits and systems that can be applied to a wide range of machine learning problems; on-device learning; in-memory computing; neuromorphic deep learning, and system-level aspects of Edge-AI. The rationale of this Special Issue is to develop a compelling volume of research in the emerging field of neuromorphic and machine learning (ML) circuits and systems, and present advances in their individual studies in this area of growing importance. We believe that this topic is timely and compelling, as there is a growing need for training ML and artificial intelligence (AI) algorithms on low-power platforms that can potentially provide an orders-of-magnitude improvement in energy-efficiency, when compared to the present focus on graphics processing units (GPUs), field-programmable gate arrays (FPGAs), and digital application-specific integrated circuits (ASICs).

Guest Editors

Dr. Aatmesh Shrivastava

Dr. Vishal Saxena

Dr. Xinfei Guo

Deadline for manuscript submissions

closed (1 March 2022)



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Journal of Low Power Electronics and Applications
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jlpea@mdpi.com

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jlpea](http://mdpi.com/journal/jlpea)





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About the Journal

Message from the Editor-in-Chief

Journal of Low Power Electronics and Applications is an open access journal which provides an advanced forum for rapid dissemination of innovative research and important results in all aspects of low power electronics and design.

It publishes reviews, regular research papers and short communications. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. The full experimental details must be provided so that the results can be reproduced.

Editor-in-Chief

Dr. Davide Bertozi

Reader in Advanced Processing Technologies, Department of Computer Science, University of Manchester, Manchester M13 9PL, UK

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