Special Issue

Neuromorphic Computing for Edge Applications

Message from the Guest Editors

Our society's growing demand to integrate artificial intelligence in edge devices poses a significant challenge to traditional computing systems, which struggle to maintain low-power requirements while performing online real-time computational tasks. Neuromorphic computing, taking inspiration from biological computational principles, offers a valid low-energy alternative for real-time edge applications, bridging novel engineering principles with artificial intelligence. This Special Issue aims to present the latest advances in low-energy neuromorphic technologies and algorithms for edge computing applications. Contributions in the form of original research articles, comprehensive review papers, and case studies are all welcome.

Guest Editors

Dr. Luca Peres

Department of Computer Science, The University of Manchester, Manchester M13 9PL, UK

Dr. Oliver Rhodes

Department of Computer Science, University of Manchester, Manchester M13 9PL, UK

Deadline for manuscript submissions

closed (30 June 2025)

Journal of Low Power Electronics and Applications

an Open Access Journal by MDPI

Impact Factor 1.8
CiteScore 4.3

mdpi.com/si/223270

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

mdpi.com/journal/jlpea

Journal of Low Power Electronics and Applications

an Open Access Journal by MDPI

Impact Factor 1.8
CiteScore 4.3

mdpi.com/journal/jlpea

MDPI

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

Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), Inspec, and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 24.2 days after submission; acceptance to publication is undertaken in 3.8 days (median values for papers published in this journal in the second half of 2025).

Journal Rank:

CiteScore - Q2 (Electrical and Electronic Engineering)