Special Issue

Automotive Low Power Technologies

Message from the Guest Editor

Electronic control units (ECUs) in the automotive domain are systems, which need to fulfil several requirements like real-time, safety and security and reliability. ECUs can only be deployed in cars, if they fulfil all these requirements and are certified. Current trends in the automotive domain, where advanced driver assistant systems lead in the future even to fully autonomous driving, are increasing the complexity to fulfil all the system requirements. Novel hardware architectures like multicore and many core architectures, novel design tools for designing these architectures but also to program them, novel algorithms exploiting machine learning require new concepts in automotive low power electronics. This special issue is dedicated to these new trends and how low power electronics can support them. This includes low power hardware for inter- and intra communication, providing high-speed data transfer in the car and also in car2X scenarios.

Guest Editor

Prof. Dr. Michael Hübner
Embedded Systems for Information Technology (ESIT), Ruhr University of Bochum, Bochum, Germany

Deadline for manuscript submissions

closed (15 November 2018)

Journal of Low Power Electronics and Applications

an Open Access Journal by MDPI

Impact Factor 1.8
CiteScore 4.3

mdpi.com/si/13608

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 (ISSN 2079-9268) is an open access journal which provides an advanced forum for the studies of electronics for low power applications. A special emphasize is made on ultralow power bio-medical applications. 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. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

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 23.4 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2025).

Journal Rank:

CiteScore - Q2 (Electrical and Electronic Engineering)