electronics

an Open Access Journal by MDPI

IMPACT FACTOR 2.6

CITESCORE 5.3

Highly Efficient Synapse-Device-Based Neuromorphic Systems

Guest Editor:

Prof. Dr. Daeseok Lee
Advanced Semiconductor Device Laboratory, Department of Electronic Materials Engineering, Kwangwoon University, Seoul, Korea

Deadline for manuscript submissions:
closed (28 February 2021)

Message from the Guest Editor

This Special Issue of *Electronics* aims to call for recent research on the synapse-device-based neuromorphic system from material to system scale.

Prospective authors are invited to submit original works and extended works based on the topics from a wide range of synapse-device-based neuromorphic systems. The synapse devices include (but are not limited to) the following devices: RRAM, CBRAM, FTJ (or other ferroelectric devices), STT-MRAM (or other spintronic devices), PCM, Flash (or other floating-gate/charge trap devices), etc. From material to circuitry, the following topics are solicited:

- Materials/devices for synapses and neurons;
- Brain-inspired neural networks with synapse/neuron devices;
- Selector materials/devices for crossbar array for neuromorphic systems;
- Array scale demonstration for neuromorphic systems;
- Architectural design/circuitry for neuromorphic systems;
- Learning algorithms and architecture/circuitry for neuromorphic systems.

More details via https://www.mdpi.com/journal/electronics/special_issues/Neuro

Welcome to contribute.

electronics

IMPACT FACTOR 2.6

CITESCORE 5.3

an Open Access Journal by MDPI

Editor-in-Chief

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

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, and other databases.
Journal Rank: JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Control and Systems Engineering*)

Contact Us

Electronics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/electronics
electronics@mdpi.com
𝕏@electronicsMDPI