electronics

IMPACT FACTOR 2.9

CITESCORE 4.7

an Open Access Journal by MDPI

Towards Efficient and Reliable AI at the Edge

Guest Editor:

Dr. Palden Lama
Department of Computer Science, the University of Texas at San Antonio, San Antonio, TX 78249, USA

Deadline for manuscript submissions:
15 August 2024

Message from the Guest Editor

The deployment of AI models on edge devices has gained significant traction due to its potential to enable real-time decision-making and alleviate the dependency on cloud-based services. However, this burgeoning field faces numerous challenges such as limited computational resources, power constraints, and unreliable network connectivity. Moreover, with critical infrastructure embracing AI-capable devices, ensuring reliability and security also becomes crucial.

- Efficient AI model design for edge devices: Model compression and quantization; Lightweight network architecture; Federated learning and collaborative approaches
- Optimization of edge device resources: Energy efficient computing and communication: Dynamic resource management: Edge-cloud collaboration
- Reliable operation of edge AI: Robustness against hardware failures; Fault tolerance and resilience
- Security and privacy in edge AI: Secure model deployment; Privacy preservation techniques; Defense against adversarial attacks
- Evaluation and benchmarking of edge AI: Real-world case studies and evaluation; Comparative analysis of edge AI frameworks; Evaluation frameworks for edge AI systems

electronics

IMPACT FACTOR 2.9

CITESCORE 4.7

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(*Electrical and Electronic Engineering*) CiteScore - Q2 (*Electrical and Electronic Engineering*)

Contact Us

Electronics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

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