

Special Issue

Edge Computing Optimization Using Artificial Intelligence Methods

Message from the Guest Editors

The growing importance of the Internet of Things (IoT) and the ubiquitous high capacity provided by 5G technologies have brought the specter of massive quantities of data being generated and/or consumed by sensors, actuators, and smart devices. Such massive amounts of data require considerable processing power, which is available in the cloud. However, cloud-based computation and data delivery models do not allow the stringent quality of service (QoS) guarantees to be efficiently harnessed. For this Special Issue, original scientific articles are welcome on the following as well as closely related topics:

- AI-based algorithms to optimize job placement in EC
- AI software architectures favoring distributed computing job placement in EC resources (e.g., Distributed Deep Neural Network architectures)
- AI-based mechanisms supporting open EC markets leveraging the participation of third-party computing resources opportunistically (e.g., parked autonomous vehicles)
- AI-based methods to optimize mobile EC resources' placement (e.g., EC capable drones)

Guest Editors

Prof. Dr. António M.R.C. Grilo
Prof. Dr. Paulo Rogerio Pereira
Dr. Naércio Magaia

Deadline for manuscript submissions

closed (30 June 2021)



IoT

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 8.7



mdpi.com/si/56844

IoT
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
iot@mdpi.com

mdpi.com/journal/

[IoT](#)





IoT

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 8.7



[mdpi.com/journal/
IoT](https://mdpi.com/journal/IoT)



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Amiya Nayak
School of Electrical Engineering & Computer Science, University of
Ottawa, 800 King Edward Avenue, Ottawa, ON K1N 6N5, Canada

Author Benefits

High Visibility:

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

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 25.5 days after
submission; acceptance to publication is undertaken in 5.3
days (median values for papers published in this journal in
the second half of 2025).

Journal Rank:

JCR - Q2 (Telecommunications) / CiteScore - Q1
(Computer Science (miscellaneous))