



Advances in Cloud and Edge Computing

Guest Editors:

Dr. Claudia Canali

Enzo Ferrari Engineering
Department, University of
Modena and Reggio Emilia,
41125 Modena, Italy.

Dr. Giuseppe Di Modica

Department of Computer Science
& Engineering (DISI), University of
Bologna, 40136 Bologna, Italy

Dr. Riccardo Lancellotti

Enzo Ferrari Engineering
Department, University of
Modena and Reggio Emilia,
41125 Modena, Italy.

Deadline for manuscript
submissions:

closed (15 April 2023)

Message from the Guest Editors

The goal of this Special Issue is to devise models, techniques, and algorithms that can support the management of cloud and edge computing infrastructures. The nature of these applications may introduce new challenges because coordinating large data processing tasks in a widely heterogeneous and distributed environment may pose new issues that need to be addressed.

- Models and algorithms for resource management in the computing continuum;
- Energy models for cloud and edge infrastructures;
- Resource allocation solutions for microservice-based and container-based systems;
- Management of distributed infrastructures in the presence of software-defined networks, network function virtualization, and/or virtual routers;
- Support for IoT applications;
- Solutions for the management of Edge computing scenarios;
- Performance models for distributed edge computing infrastructures;
- Distributed algorithms for data processing and analysis, such as distributed application of machine learning;
- Security issues in Edge computing infrastructures;
- Deployment of applications based on microservices on Edge computing;
- Application scenarios and experiences.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Frank Werner

Faculty of Mathematics, Otto-
von-Guericke-University, P.O. Box
4120, D-39016 Magdeburg,
Germany

Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

Author Benefits

Open Access : free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, ESCI (Web of Science), Ei Compindex, and other databases.

Journal Rank: JCR - Q2 (*Computer Science, Theory and Methods*) / CiteScore - Q1 (Numerical Analysis)

Contact Us

Algorithms Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/algorithms
algorithms@mdpi.com
[X@Algorithms_MDPI](https://twitter.com/Algorithms_MDPI)