Special Issue

Advances in Cloud and Edge Computing

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.

Guest Editors

Dr. Claudia Canali

Dr. Giuseppe Di Modica

Dr. Riccardo Lancellotti

Deadline for manuscript submissions

closed (15 April 2023)

Algorithms

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an Open Access Journal by MDPI

Impact Factor 2.1
CiteScore 4.5

About the Journal

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.

Editor-in-Chief

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

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