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Algorithms for Systems of Autonomous and Mobile Computational Entities

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Deadline for manuscript submissions:
closed (31 May 2021)

Message from the Guest Editors

This Special Issue aims to attract original research contributions on modeling, computability, and algorithmic aspects of Multi-entity Computing Systems (MCSs).

Due to the increasing importance of MCSs applications, in the last decade, we have witnessed the rise of an essentially entirely new field of computer science and engineering, dedicated to research on the algorithmic properties of MCSs.

In fact, despite the very different nature of the specific application domains, these systems share several features from both the abstraction and the computational viewpoints that make them suited for being studied by a systematic rigorous approach.

We solicit the submission of original contributions and new scientific results on MCSs, broadly speaking, including the following: design and analysis of algorithms for MCSs, engineering of MCSs, theoretical advancements on the analysis of the computational properties of MCSs, experimental evaluation of MCSs, and simulation platforms. High-quality survey contributions are also welcome.

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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.

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