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Algorithms for Multi-Agent Systems

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Deadline for manuscript submissions:
closed (15 March 2024)

Message from the Guest Editors

Multi-agent systems (MAS) are a core area of research in many topical industries (e.g., technical sectors, healthcare, economics, biology, etc.). They are formed by a group of multiple agents interacting with each other and the adjacent area in order to accomplish various computational and time-demanding tasks. These agents are characterized by numerous positive features such as independence, self-awareness, distributed character, etc., thereby outperforming traditional single-agent systems in many aspects (e.g., scalability, complexity, robustness to potential threats, diversity, etc.).

This Special Issue is dedicated to the proposal of novel algorithms for topical MAS, an analysis of the current ones in these systems from different aspects, and their optimization. Potential topics include but are not limited to the following topics:

- Internet of Things
- machine learning algorithms
- artificial intelligence algorithms
- deep learning algorithms
- distributed computing
- consensus algorithms
- evolutionary algorithms
- swarm computing
- cloud computing
- sensor systems
- predictive modeling
- optical systems

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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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