Special Issue

Machine Learning Algorithms for Distributed Autonomous Vehicles

Message from the Guest Editor

Autonomous vehicles are growing in popularity, with many new applications emerging in different environments and architectures, e.g., cloud/edge/fog computing. The increasing attention and need for these systems are forcing us to take a deeper look into the challenges associated with them. Resource management, i.e., appropriate allocation of resources to tasks, is one of the challenges of this type of system. Additionally, since these devices are heterogeneous, i.e., they have the different processing and transferring power, memory, sensors, bandwidth, batteries, etc., some may not be able to respond in the necessary time and with the appropriate energy expenditure and have to offload part of their computation tasks to other devices. This cooperation involves a range of challenges, such as trust and reliability, which should be considered in resource management strategies. Through machine learning algorithms, it is hoped that these systems will act intelligently and autonomously to a significant extent.

Guest Editor

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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.

Editor-in-Chief

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