Special Issue

Knowledge Representation and Reasoning

Message from the Guest Editor

Knowledge representation and reasoning (KRR) is a well-established and relevant research field within artificial intelligence. KRR techniques are key drivers of innovation in computer science, and have led to significant advances in practical applications. In KRR, a fundamental assumption is that the knowledge of an agent is explicitly represented in declarative form, that is, it concentrates on the logic of a computation without directly describing its control flow, as instead happens in the imperative form. This is a common approach in many modern intelligent systems. As a result, KRR has significantly contributed to advancements in a variety of research areas, such as automated planning, natural language understanding, software engineering, robotics, databases, verification, semantic Web, computational biology, and cybersecurity.

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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