

Special Issue

Logic-Based Artificial Intelligence

Message from the Guest Editor

Logics have provided a formal basis for the study and development of systems and applications in Artificial Intelligence. In particular, logic became relevant to AI research thanks to fast satisfiability solvers for solving combinatorial search problems. Logic-based AI approaches have contributed to knowledge representation, natural language understanding, automated planning and commonsense reasoning. Nowadays, they are fundamental in the increasing request of explainability, comprehensibility and trustworthy to improve statistical-based AI systems. Hence, logic-based approaches are of paramount importance to identify promising research perspectives. The aim of this Special Issue is to collect state-of-the-art research on the topic of Logic-based AI approaches and technologies, and their main application areas.

Guest Editor

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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

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