Special Issue

Hybrid Answer Set Programming Systems and Applications

Message from the Guest Editor

Extensions of Boolean constraint solving technology have attracted research interest for more than a decade, including incremental reasoning methods for induction or optimization, theory checking for scheduling or verification, domain-specific heuristics for planning or design automation, and more. Given specific application challenges in areas such as planning and scheduling, design and configuration, intelligent robotics, logistics management, and systems biology, hybrid approaches integrating a Boolean core with extensions are becoming increasingly important for knowledge representation and reasoning, where answer set programming and related formalisms provide high-level problem modeling capacities. This Special Issue is dedicated to novel and vibrant approaches to hybrid answer set programming systems and closely related methods as well as their applications, with particular focus on practical implementations and pioneering showcases.

- artificial intelligence
- declarative problem solving
- knowledge representation and reasoning
- computational logic
- answer set programming
- hybrid reasoning
- algorithms and systems
- applications

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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