



Bisimulation and Simulation Algorithms

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Message from the Guest Editors

Dear Colleague,

This Special Issue surveys the current state-of-the-art on algorithms for computing bisimulation and simulation in different fields.

Bisimulation and simulation have been pervasive in the areas of set theory, logics, category theory, formal languages, concurrency, automated verification, performances evaluation. The analysis techniques based on bisimulation and simulation developed in such areas have been successfully applied to the study of both engineered, natural, and hybrid systems.

We invite original high-quality contributions on all algorithmic aspects of bisimulation and simulation computation, including (but not limited to):

- classical partitioning techniques
- abstract interpretation based computations
- symbolic techniques
- variants of the problem such as stuttering, probabilistic, stochastic ones
- lower bounds to the complexity
- tools and applications

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Guest Editors





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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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