

Special Issue

Bayesian Networks and Causal Reasoning

Message from the Guest Editors

We invite you to submit your research on using Bayesian Networks to understand and explain causal systems, and to inform decision making under conditions of uncertainty. The algorithms of interest include those embedded within systems using Bayesian Networks, those generating Bayesian Networks (e.g., causal discovery) and those applying Bayesian Networks in complex decision making and analysis, and include informal algorithms describing how humans may use Bayesian Networks for these purposes. New methods, analyses, and experimental results across this spectrum are most welcome. Problems addressed may range from fundamental or theoretical (e.g., What are causes and how should they be represented in a causal model?), to psychological (e.g., How can Bayesian Networks reduce susceptibility to causal fallacies?), to applied (e.g., How can we use causal Bayesian Networks to improve disease surveillance?).

Guest Editors

Dr. Kevin B Korb

Dr. Steven Mascaro

Erik P. Nyberg

Deadline for manuscript submissions

closed (31 January 2024)



Algorithms

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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

Prof. Dr. Frank Werner

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