Special Issue

Algorithms in Stochastic Models

Message from the Guest Editors

Stochastic models are useful in many real-world scenarios to capture their inherent randomness. Examples of their applications include biological processes, financial markets, manufacturing processes, control systems, power grids, and weather prediction. As stochastic models often suffer from significant complexity, we are interested in algorithms to tackle computationally intensive challenges in stochastic models, including decision-making, control, signal processing, optimization, and resource allocation. This will bring together algorithms, modeling, and numerical studies on algorithms in stochastic models in applications, including (but not limited to) intelligent transportation, smart and connected communities, sensing, smart grids, finance, and telecommunications.

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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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