Special Issue

Machine Learning for Planning and Logistics

Message from the Guest Editors

With the rapid growth of e-commerce, global trade, and just-in-time manufacturing, organisations face increasing pressure to improve delivery efficiency, reduce operational costs, and manage complex logistics networks. Logistics planning requires the management of goods, information or services, with many applications including supply chain optimisation, transport management, event planning, disaster planning, E-commerce. Objectives include cost, speed, profit and robustness under change. These problems have traditionally been modelled and solved using optimisation technologies such as mathematical programming, dynamic programming, and constraint programming, with forecasting methods used to predict demand, cost, and behaviour. However, machine learning is increasingly making inroads in these areas. In this Special Issue, we invite researchers to submit research applying machine learning to logistics planning applications.

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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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