Special Issue

Scheduling, Sequencing and Assignment Problems with Applications in Logistics

Message from the Guest Editor

Optimization problems are ubiquitous in logistics, where the scheduling, sequencing and assignment of activities and resources have a significant impact on operational efficiency. These optimization problems are encountered across the entirety of the modern supply chain: sequencing orders on production lines, scheduling cranes in container warehouses or assigning customers to delivery truck routes. Similar logistics problems also frequently feature in other applications, such as airline crew scheduling, home care scheduling and the optimization of hospital logistics. A range of solution methodologies can be applied to obtain optimal or approximate solutions for these diverse problems. Some examples include metaheuristics, integer programming or simulation-based methods. Moreover, the specific applications that are addressed by researchers often give rise to new classes of combinatorial optimization problems which can also be studied from a theoretical perspective.

Guest Editor

Dr. Pieter Smet
Department of Computer Science, CODeS research group, KU Leuven, 9000 Gent, Belgium

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Algorithms
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
algorithms@mdpi.com

mdpi.com/journal/algorithms

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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

Prof. Dr. Frank Werner
Faculty of Mathematics, Otto-von-Guericke-University, P.O. Box 4120, D-39016 Magdeburg, Germany

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