



Multi-Objective and Multi-Level Optimization: Algorithms and Applications

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Message from the Guest Editors

Decision-making in real world applications often require the consideration more than one objective to find effective solutions. When (conflicting) objectives are associated with either a single decision-maker or cooperative decision-makers, this typically leads to multi-objective optimization; here, optional solutions do not have the same image value, as it happens in single-objective optimization, but are non-dominated, equivalent, and allow the definition of the Pareto front. When objectives are associated with different non-cooperative decision-makers, we fall into the game theory arena; furthermore, when objectives and/or decision makers have a hierarchy among them, this asks to cope with nested optimization problems and, therefore, multi-level optimization.

The aim of this Special Issue is to collect original manuscripts dealing with multi-objective and multi-level optimization; we sought original papers presenting innovative applications and/or contributing to the theory.





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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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