Algorithms and Models for Dynamic Multiple Criteria Decision Making II

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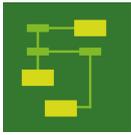
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Message from the Guest Editors

When dealing with conflicting objectives, the design of specific algorithms and heuristic methods seems restricted to their implementation within multi-objective optimization problems, particularly when analyzing complex structures involving dynamic or strategic interactions across variables. The current Special Issue aims at integrating MCDM methods, such as TOPSIS, VIKOR, PROMETHEE and ELECTRE, within the domain of dynamical systems. In particular, it aims at bridging the gap existing between standard MCDM methods—generally implemented within static environments—and the dynamic interactions taking place across variables in many real-life settings.

An intuitive example regarding the preferred type of research is provided by the different dynamic extensions of data envelopment analysis (DEA) introduced in the operational research literature. In addition to the inclusion of a temporal dimension across MCDM methods, any potential development in techniques such as dynamic DEA or novel extensions of multi-objective optimization problems involving dynamic interactions across variables are welcome as contributions to the current Special Issue.

Special Issue

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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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