

Call for Papers

Understanding Complexity in Multiobjective Optimization

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This special issue of [JMCD](#) is devoted to further strengthening the links between the Evolutionary Multiobjective Optimization (EMO) and Multiple Criteria Decision Making (MCDM) communities, and advancing our understanding of different aspects of complexity in multiobjective optimization.

The special issue will focus around the following three topics:

Focus 1: Complexity in preference

This topic is mainly concerned with elicitation, representation and exploitation of the preference of one or more users, for example: discovering and building preferences that are dynamic and unstable, group preference, complex structure of criteria, non-standard preferences, learning in multiobjective optimization.

Focus 2: Complexity in optimization

This topic is mainly concerned with the generation of alternative candidate solutions, given some set of objective functions and feasible space. The following topics are examples for the wide range of issues in this context: high-dimensional problems, complex optimization problems, simulation-based optimization and expensive functions, uncertainty and robustness, interrelating decision and objective space information.

Focus 3: Complexity in applications

An all-embracing goal is to achieve a better understanding of complexity in practical problems. Many fields in the Social Sciences, Economics, Engineering Sciences are relevant: E-government, Finance, Environmental Assessment, E-commerce, Public Policy Evaluation, Risk Management and Security are among the possible application areas.

These three topics should provide a strong basis for progress in both the theory and practice of handling complexity in multiobjective optimization in all its guises.

Submissions are now invited. The standard review processes of the journal will be used. Contributions should be submitted online at <http://mc.manuscriptcentral.com/mcda>, making sure that the box asking whether the submission is for special issue is checked, and that “understanding complexity in multiobjective optimization” is entered into the appropriate field.

Important dates

The final date for submissions is **31 July 2015**. Please see [http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1099-1360/homepage/CFP-MCDA-UndComplexity.pdf](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1099-1360/homepage/CFP-MCDA-UndComplexity.pdf) for a fuller version of this call for papers.