CALL FOR PAPERS

Special Issue on

Multicriteria Optimization in Industry

Special Issue Editors:
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Submission deadline: April 30th, 2020

Most real-world optimization and decision-making problems comprise several, partly conflicting objective functions. Multicriteria mathematical modeling and optimization is a well-established discipline which provides mathematical methods and algorithmic approaches for coping with such situations. Besides being an inspiring theoretical research area, multicriteria optimization has proved to facilitate decision-making situations allowing reliable and provably good decisions. Since substantial advances in terms of theory have been made and since computational capabilities developed significantly in the last decades, more and more models reflect the multicriteria nature of real-world applications.

This special issue aims at presenting original and innovative pieces of research in multiobjective optimization which combine both, a sound theoretical work and a practical impact in some real-world application. Ideally, the problem under consideration is inherently multicriteria and triggered a theoretical development which then caused a boost in terms of the application.

All domains of applications as well as all theoretical streams of multicriteria optimization are eligible for this special issue. This includes but is not limited to:

- Exact and heuristic approaches in multiobjective linear, nonlinear, and integer programming
- Data driven models in multiobjective optimization
- Measures for coping with uncertainty in data, models, and decision making
- Guidances and assistance in decision making
- Applications in economy and society

Contributions should investigate novel approaches, be it on the side of modelling, computational solution procedures, technologies, or analytics, applied to real-world application problems. In line with the aims and scope of OR Spectrum, manuscripts should emphasize the practical relevance and the methodological contribution of the work.

Submission Guidelines and Review Process: Papers must be submitted at http://www.editorialmanager.com/orsp/ under the category "Multicriteria Optimization in Industry" by April 30, 2020. All papers submitted to this special issue should report original work and make a contribution to the journal OR Spectrum by using a quantitative research paradigm and OR methodologies. According to the aims of OR Spectrum, high quality papers are wanted that match the scope of the journal, show rigor in applying state-of-the-art OR techniques, and promise to have an impact on future work of the OR community.

Each paper will be screened by the Editor-in-Chief and one special issue editor. If the paper is deemed to be of sufficient quality, it will be reviewed according to the standards of OR Spectrum by at least two experienced reviewers. We will adopt a rapid and fair review process striving to provide reviews within three months of submission. Accepted papers will be available online prior to the publication of the special issue.

Special Issue Editors

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