

Special issue of the EURO Journal on Computational Optimization on Robust Combinatorial Optimisation.

Robust optimisation has become a central framework to handle the uncertainty that arises in the parameters of optimization problems. While classical RO results can efficiently handle linear programs for a large variety of uncertainty sets, the situation is more complex for optimization problems involving discrete decisions. Efficient exact or approximate solution algorithms for such problems must exploit the combinatorial structure of the problems at hand. The aim of the special issue is to invite high-quality manuscripts addressing robust combinatorial optimization problems and presenting convincing numerical results. A special interest shall be devoted to papers considering extensions of well-known uncertainty sets. Possible topics include, but are not restricted to :

- valid inequalities for robust MILPs,
- decomposition algorithms for robust MILPs,
- constraint programming approaches to robust combinatorial optimization,
- heuristic and meta-heuristic algorithms for hard robust combinatorial problems,
- ad-hoc combinatorial algorithms,
- novel applications of robust combinatorial optimization,
- multi-stage integer robust optimization,
- recoverable robust optimization,
- alternative robust combinatorial frameworks (min-max regret, light robustness, ...).

Following the journal high standards, we expect high quality contributions that will undergo the strict reviewing process of EJCO. Submission deadline is

July 15 2017.

In order to submit a paper for the special issue,

1. Log on the editorial manager using the <Author Login> via the website

<https://www.editorialmanager.com/ejco/>

2. Select <Submit New Manuscript> in the main menu.

3. In the drop down list associated with <Choose Article Type> select the desired special issue (« SI: Robust Combinatorial Optimisation »). Note that all entries corresponding to the special issues start with SI.

We are looking forward to receiving your contributions.

The Guest Editors

Arie Koster, RWTH Aachen University, Germany,

Michael Poss, LIRMM, CNRS, France