

Call for Papers

Special issue on “Applied combinatorial optimization”

Guest Editors

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The **International Transactions in Operational Research (ITOR)** will publish a special issue dedicated to “Applied combinatorial optimization”.

Many decision problems that arise in the real world can be modeled and solved as combinatorial optimization problems. This is an active research area, where new formulations, algorithms, practical applications, and theoretical results are often proposed and published. Current challenges in the field involve modeling of hard problems, development of exact methods, design and experimental evaluation of approximate and hybrid methods, among others.

Contributions solicited cover a variety of topics, including but not limited to:

- Applications of combinatorial optimization,
- Approximation algorithms,
- Bio-informatics,
- Branch-and-cut-and-price algorithms,
- Computational complexity,
- Energy planning,
- Graph theory,
- Heuristics and metaheuristics,
- Hybrid methods,
- Integer programming,
- Natural resource management,
- Network design and analysis,
- Production planning,
- Telecommunications, and
- Transportation and logistics.

Although we strongly encourage the submission of papers presented at the **VIII ALIO/EURO Workshop on Applied Combinatorial Optimization** that took place in Montevideo, Uruguay, from

December 8 to 10, 2014, this Call for Papers is also open to the entire community of academics and practitioners.

All papers will be peer-reviewed according to the editorial policy of ITOR (<http://www3.interscience.wiley.com/journal/118505725/home>), published by the International Federation of Operational Research Societies (IFORS). Papers should be original, unpublished, and not currently under consideration for publication elsewhere. They should be prepared according to the instructions to authors that can be found in the journal homepage. Authors should upload their contributions using the submission site <http://mc.manuscriptcentral.com/itor>, indicating in their cover letter that the paper is intended for this special issue.

The deadline for submissions is April 30, 2015. Other inquiries should be sent directly to any of the Guest Editors in charge of this issue: Héctor Cancela (cancela@fing.edu.uy), Simone Martins (simone@ic.uff.br), Antonio Mauttone (mauttone@fing.edu.uy), and María E. Urquhart (urquhart@fing.edu.uy).