

Call for Papers
Annals of Operations Research
Special Issue on
Operations Research for Transportation

Overview

The journal *Annals of Operations Research* invites submissions of papers to a special issue on **Operations Research for Transportation**.

Transportation is a broad multidisciplinary science concerned with the study of transportation network design, vehicle application engineering, as well as transportation operations and management. It covers issues of relevance to the formulation of policy and the day-to-day operational management of transportation systems.

Due to the complex properties of transportation problems and their impact on society through global trade, research into more effective technologies and theories specifically within this domain is of great importance. Operations Research (OR) mixes theories and methodologies from mathematics, management science, computer science, operations management, economics, engineering, decision support, soft computing, and many more disciplines with applications in almost all domains. As a matter of fact, infrastructure layout and network flow optimization problems existing in transportation systems have been widely described by the theory of OR. With the development of data mining techniques, more accurate and timely data can be attained, giving useful insights and revealing hidden patterns in transportation systems' operations. These data also help in the development of new mathematical models and offer promising opportunities for the development and application of OR in the transportation domain. As a result, the interfaces between OR and the rich transportation field are bolstered, urging innovation and giving room for developing new approaches. For the field and domain to benefit from these gains it is important to synthesize the research findings of transportation and OR with a wide range of real-life applications to support sustainable transportation development.

This special issue will collect papers presenting cutting edge research on OR problems and algorithms in the domain of transportation planning and management. On the methodological side, the issue aims to present theory, methods, and algorithms. Case studies and papers introducing innovative applications are also highly welcome.

Topics

The special issue will cover a broad range of topics in the field of transportation that use OR approaches and methods. Potential topics include, but are not limited to, the following areas of transportation:

- TSP and all variants
- VRP and all variants
- Combining inventory and transportation
- Network design and optimization
- Vehicle flow optimization
- Time-table optimization
- Scheduling

- Stochastic and robust optimization
- Exact algorithms
- Heuristic algorithm
- Combinatorial optimization

Procedures

High quality papers are sought from all researchers in these fields. All papers will be rigorously refereed by experts selected by the editors. The submission deadline is August 31, 2016. Instructions for authors can be found at:

<http://www.springer.com/business/operations+research/journal>

Authors should submit a cover letter and a manuscript via the journal's online submission site. Manuscripts submitted after the deadline may not be considered for the special issue and may be transferred to a regular issue.

Please see the Author Instructions on the website before submitting a paper through Springer's web-based system, Editorial Manager. Be sure to note when leaving a comment that your work is intended for the special issue and select the article type **S.I. : OR in Transportation**.

Guest Editors

Bin Yu, Dalian Maritime University, Dalian 116024, China; ybzhyb@163.com

Gang Chen, Aalborg University, Denmark, Email: gc@m-tech.aau.dk

Peter Nielsen, Aalborg University, Denmark, Email: peter@m-tech.aau.dk