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### DESCRIPTION

*Operations Research Letters* is a publication for literature on all aspects of **operations research** and the **management** and **decision sciences**. The features distinguishing it from other journals in the field are

- \* Concise articles, generally limited to 6 journal pages
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Area Editors:

#### **Approximation and heuristics**

Gerhard J. Woeginger

The area covers all issues relevant to the development of efficient approximate solutions to computationally difficult problems. Examples are heuristic approaches like local search, worst case analysis or competitive analysis of approximation algorithms, complexity theoretic results, and computational investigations of heuristic approaches.

#### **Continuous optimization**

Patrice Marcotte

Papers in all fields of continuous optimization that are relevant to operations research are welcome. These areas include, but are not restricted to, nonlinear programming (constrained or unconstrained, convex or nonconvex, smooth or nonsmooth, exact or heuristic, finite or infinite-dimensional),

complementarity, variational inequalities, bilevel programming, and mathematical programs with equilibrium constraints.

### **Financial engineering**

Kumar Muthuraman

Financial engineering utilizes operations research methods (such as optimization, simulation, decision analysis and stochastic control) to analyze financial markets. This area is interested in papers that innovate in terms of methods or models that help financial applications. The studied problem examples include the pricing and hedging of financial instruments, credit and energy markets and portfolio selection

### **Game theory**

Nimrod Megiddo

The area published papers in game theory with relevance to the field of operations research.

### **Graphs and networks**

Gianpaolo Oriolo

The area seeks papers that apply, in original and insightful ways, discrete mathematics to advance the theory and practice of operations research, as well as those reporting theoretical or algorithmic advances for the area. Of particular, but not exclusive, interest are papers devoted to novel applications, telecommunications and transportation networks, graphs and web models and algorithms.

### **Inventory control**

Sridhar Seshadri

The area welcomes innovative papers focused on inventory management. Examples of topics include, but are not limited to supply chain management, pricing, capacity planning, multi-item/echelon systems, algorithms and bounds, and incentive design.

### **Life sciences and healthcare**

Gunnar W. Klau

Operations research methodologies are used in the healthcare sector, for example, in treatment or clinical trial design, robotic surgery, location of healthcare facilities, medical resource allocation, and vaccine scheduling. Recently, operations research is likewise emerging as a crucial component of basic research in the life sciences, for example, in genome assembly, phylogenetics and network biology, structural biology and drug design. The area welcomes theoretical and applied contributions to these and related fields.

### **Linear and stochastic optimization**

Rüdiger Schultz

The area solicits original articles dealing with theoretical and computational issues in linear optimization or optimization under stochastic uncertainty.

### **Logistics and revenue management**

Mahesh Nagarajan

The area includes topics related to operations management and supply chain design such as location problems, production planning, transportation and routing, and revenue management and pricing. We welcome papers that study existing or new models and applications in these areas and provide significant new results. Examples are papers introducing new models, new algorithms or new analysis of known models or algorithms. Emphasis will be put on the relative importance of the paper's contribution to known theory and practice.

### **Mixed integer optimization**

Volker Kaibel

All submissions advancing the theory and practice of mixed integer (linear or nonlinear) programming like novel techniques and algorithmic approaches in convex relaxations, branch and cut, polyhedral combinatorics and theory driven heuristics are welcome. Case studies may be considered if they contribute to the general methodology.

### **Reliability and maintenance optimization**

Jeffrey P. Kharoufeh

The area invites novel reliability and maintenance optimization contributions with a rigorous operations research component. Examples include, but are not limited to, stochastic models of reliability, dynamic maintenance decision making, novel uses of data within analytical frameworks, matrix-analytic methods and asymptotic results. The area will consider formal models, algorithms, bounds and computational advances.

### **Scheduling**

Marc Uetz

We seek original and significant contributions to the analysis and solution of sequencing and scheduling problems. This includes structural and algorithmic results, in particular optimization, approximation and online algorithms, as well as game theoretic modeling. All results are welcome as long as the relevance of a problem and significance of the contribution is made compellingly clear.

### **Stochastic networks & queues**

John Hasenbein

The area focuses on networks and queueing systems where stochastic variability and uncertainty play a crucial role. The area seeks papers that propose original models and develop novel analytical or computational methods. Innovative ideas and broad results receive precedence over incremental extensions or niche areas.

## **AUDIENCE**

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Researchers and Practitioners working in Operations Research, and the management and decision sciences.

## **IMPACT FACTOR**

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#### **Electronic artwork**

#### **General points**

- Make sure you use uniform lettering and sizing of your original artwork.
- Preferred fonts: Arial (or Helvetica), Times New Roman (or Times), Symbol, Courier.
- Number the illustrations according to their sequence in the text.
- Use a logical naming convention for your artwork files.
- Indicate per figure if it is a single, 1.5 or 2-column fitting image.

- For Word submissions only, you may still provide figures and their captions, and tables within a single file at the revision stage.
- Please note that individual figure files larger than 10 MB must be provided in separate source files. A detailed [guide on electronic artwork](#) is available.

**You are urged to visit this site; some excerpts from the detailed information are given here.**

#### *Formats*

Regardless of the application used, when your electronic artwork is finalized, please 'save as' or convert the images to one of the following formats (note the resolution requirements for line drawings, halftones, and line/halftone combinations given below):

EPS (or PDF): Vector drawings. Embed the font or save the text as 'graphics'.

TIFF (or JPG): Color or grayscale photographs (halftones): always use a minimum of 300 dpi.

TIFF (or JPG): Bitmapped line drawings: use a minimum of 1000 dpi.

TIFF (or JPG): Combinations bitmapped line/half-tone (color or grayscale): a minimum of 500 dpi is required.

#### **Please do not:**

- Supply files that are optimized for screen use (e.g., GIF, BMP, PICT, WPG); the resolution is too low.
- Supply files that are too low in resolution.
- Submit graphics that are disproportionately large for the content.

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#### *Figure captions*

Ensure that each illustration has a caption. A caption should comprise a brief title (**not** on the figure itself) and a description of the illustration. Keep text in the illustrations themselves to a minimum but explain all symbols and abbreviations used.

#### **Tables**

Please submit tables as editable text and not as images. Tables can be placed either next to the relevant text in the article, or on separate page(s) at the end. Number tables consecutively in accordance with their appearance in the text and place any table notes below the table body. Be sparing in the use of tables and ensure that the data presented in them do not duplicate results described elsewhere in the article. Please avoid using vertical rules and shading in table cells.

#### **References**

##### *Citation in text*

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Example: '..... as demonstrated [3,6]. Barnaby and Jones [8] obtained a different result ....'

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#### *Examples:*

Reference to a journal publication:

[1] J. van der Geer, J.A.J. Hanraads, R.A. Lupton, The art of writing a scientific article, *J. Sci. Commun.* 163 (2010) 51–59.

Reference to a book:

[2] W. Strunk Jr., E.B. White, *The Elements of Style*, fourth ed., Longman, New York, 2000.

Reference to a chapter in an edited book:

[3] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age*, E-Publishing Inc., New York, 2009, pp. 281–304.



Reference to a website:

[4] Cancer Research UK, Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>, 2003 (accessed 13.03.03).

[dataset] [5] M. Oguro, S. Imahiro, S. Saito, T. Nakashizuka, Mortality data for Japanese oak wilt disease and surrounding forest compositions, Mendeley Data, v1, 2015. <http://dx.doi.org/10.17632/xwj98nb39r.1>

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