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DESCRIPTION

The European Journal of Operational Research (EJOR) publishes high quality, original papers that contribute to the methodology of operational research (OR) and to the practice of decision making. EJOR contains the following types of papers:

- Invited Reviews, explaining to the general OR audience the developments in an OR topic over the recent years
- Innovative Applications of OR, describing novel ways to solve real problems
- Theory and Methodology Papers, presenting original research results contributing to the methodology of OR and to its theoretical foundations,
- Short Communications, if they correct important deficiencies of papers previously published in EJOR

The Theory and Methodology Papers are classified into one of the seven headings:

- Continuous Optimization
- Discrete Optimization
- Production, Manufacturing and Logistics
- Stochastics and Statistics
- Decision Support
- Computational Intelligence and Information Management
- Interfaces with Other Disciplines

In addition to these types of papers, EJOR contains Book Reviews.

Benefits to authors
We also provide many author benefits, such as free PDFs, a liberal copyright policy, special discounts on Elsevier publications and much more. Please click here for more information on our author services.

Please see our Guide for Authors for information on article submission. If you require any further information or help, please visit our Support Center

AUDIENCE

Researchers and practitioners working in the area of operational research/management science
IMPACT FACTOR

2019: 4.213 © Clarivate Analytics Journal Citation Reports 2020

ABSTRACTING AND INDEXING

International Abstracts in Operations Research
Science Citation Index Expanded
Zentralblatt MATH
COMPENDEX
Current Contents - Engineering, Computing & Technology
CompuMath Citation Index
Research Alert
Mathematical Reviews
Executive Sciences Institute
Engineering Index
INSPEC
Management Contents
QCAS
Decision Sciences Web
Bio Systems
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GUIDE FOR AUTHORS

INTRODUCTION

Editorial policies

The European Journal of Operational Research (EJOR) publishes high quality, original papers that contribute to the methodology of operational research (OR) and to the practice of decision making. Extended versions of papers published in conference proceedings are not solicited. The relation with ongoing research should be demonstrated by providing proper reference to the recent OR literature. With application papers, originality should be demonstrated by applying OR to a problem with interesting new aspects or by providing fresh insights leading to successful implementation. Practitioners often suffer from the need to conceal commercial secrets. Referees will take this into sympathetic consideration when advising on an application paper, but it will not be allowed to detract from the clarity of the presentation.

Types of paper

EJOR includes the following types of papers:

• Theory and Methodology Papers
Papers presenting original research results contributing to the methodology of OR and to its theoretical foundations. The Theory and Methodology Papers will be classified by the Editors into one of seven sub-headings, based on the List of EJOR Keywords:
1. Continuous Optimization
2. Discrete Optimization
3. Production, Manufacturing, Transportation and Logistics
4. Stochastics and Statistics
5. Decision Support
6. Analytics, Computational Intelligence and Information Management
7. Interfaces with Other Disciplines

• Innovative Applications of OR
Papers describing novel ways to solve real problems. A paper presenting an Innovative Application of OR may be worthy of publication simply because it can be used to convince managers of the value to be gained by applying OR to particular problems.

• Short Communications
Short Communications are considered, but only if they correct important deficiencies of papers published in EJOR during the last 5 years.

• Invited Reviews
An Invited Review is expected to be a creative synthesis of the work recently done in an important field. Presentation of models and solution methods proposed up to now should be followed by definition of open problems, and indication of prospective research directions. It should also be strongly based on papers previously published in OR journals, including EJOR. A literature review cannot be just a list of papers with their short summaries and classification statistics, but should also contain an outline of adopted methodologies, their reference to practice, and a thorough analysis of their properties. Usually, the Invited Review papers are written by authors having a strong record of publications in the field and well known to EJOR as authors and reviewers. Note: Anyone interested in writing a review is requested to suggest a topic to one of the Editors, or to a member of the editorial board of EJOR before submitting a paper. If the topic is considered suitable, an invitation to submit will then be given by one of the editors. Unsolicited review papers will be returned to the authors.

• Special Issue Papers
EJOR occasionally publishes groups of papers on topical themes. Submissions are handled by one or more Guest Editors. Special issues that are open for new submissions will each have their own paper type available in the submission system. Please visit the current list of Calls for Papers to see which special issues are open for new submissions.

Advice from the Editors

EJOR has a very high volume of submissions and acceptance is competitive. Therefore, papers that do not contain a major new research finding, or novel approach to the application of OR, are likely to be rejected. A paper may also be rejected because - in the opinion of the Editor - it does not make a sufficient scientific contribution.

All papers will be subject to an initial screening and technical check by the EJOR Managing Editor. Please carefully read the guidelines for NEW SUBMISSIONS below. If your article is written in poor English or does not contain all of the required components, it will not progress to peer review stage.
Articles that do not pass the Managing Editor screening or do not conform to the Editorial Policy are likely to be rejected without peer review.

- **Are you making a new submission?**
  All papers will be screened by the EJOR Managing Editor to make sure they conform to all Journal requirements. Please carefully read the PREPARATION section of this Guide for Authors for more details on each of the required components for New Submissions. We recommend you check this even if you have submitted to EJOR recently, as some requirements may have changed.

- **Has your submission been returned by the Managing Editor?**
  The Editorial Policy of EJOR is such that your paper will not be able to progress to peer review until it is of a good standard of English and contains all of the required components. If you have received the message Send Back to Author then your paper has not passed the technical checks and unfortunately does not comply with one or more of the Journal policies. Please carefully read the feedback from the Managing Editor to establish the reason your paper was returned, then consult the relevant PREPARATION section below for more information on how to improve and progress your paper.

- **Have you received an Editorial decision of Revise?**
  If an Editor has made the decision that you need to revise your paper, for example Minor Revision or Major Revision, please carefully read the decision letter and any Editor and reviewer comments in order to make the required changes to your paper. When you are ready to resubmit, visit the REVISED SUBMISSIONS section. It contains advice, and details of the extra components required with your resubmission.

**BEFORE YOU BEGIN**

*Ethics in publishing*

Please see our information pages on Ethics in publishing and Ethical guidelines for journal publication.

**Ethical statement**

Papers going through the peer-review process, before being accepted for publication, obtain an average of over five reports from three reviewers. For each paper that enters the review process, several fellow scientists devote their time and efforts to reading this work and providing comments. To keep this process operational and ensure a fair distribution of the workload, we expect that all submitting authors and co-authors are willing to review papers. We understand there may be reasons you cannot accept a request at certain times, however, refusing many requests over a long period of time is unwanted and not fair on other reviewers. After all, if you have time to write papers, then there should be time to review other papers, despite other teaching, administrative or editorial duties.

As editors, we observe increased concerns of authors regarding the proper re-use of published material. In general, copying copyrighted material constitutes plagiarism unless there is an agreement of the copyright holder and the copied material is referenced appropriately (the identical material needs to be highlighted and the source reported with the page number from which the text is taken). EJOR prohibits plagiarism of any kind. Papers extending previously published results (e.g., as is common for conference proceedings) therefore need to ensure that previously copyrighted material is not re-published. In general, the journal does not consider extended versions of conference proceedings.

Finally, we expect that all authors of a submitted paper have read the complete paper and have played an important part in the research. Acting as or allowing a "ghost-author" (for financial remuneration) is unethical and may lead to a submission ban for all involved authors. We highly disapprove of such behavior and would like to raise awareness in the community about the fact that it is against ethical rules in publishing. Any suggested change in the set of authors after a first submission has to be carefully explained in the submission letter of a new version, and will typically not be accepted after a minor revision decision.

**Declaration of interest**

All authors must disclose any financial and personal relationships with other people or organizations that could inappropriately influence (bias) their work. Examples of potential competing interests include employment, consultancies, stock ownership, honoraria, paid expert testimony, patent applications/registrations, and grants or other funding. Authors must disclose any interests in two places: 1. A summary declaration of interest statement in the title page file (if double-blind) or the manuscript file (if single-blind). If there are no interests to declare then please state this: ‘Declarations
of interest: none’. This summary statement will be ultimately published if the article is accepted.

2. Detailed disclosures as part of a separate Declaration of Interest form, which forms part of the journal's official records. It is important for potential interests to be declared in both places and that the information matches. More information.

**Submission declaration and verification**

Submission of an article implies that the work described has not been published previously (except in the form of an abstract, a published lecture or academic thesis, see 'Multiple, redundant or concurrent publication' for more information), that it is not under consideration for publication elsewhere, that its publication is approved by all authors and tacitly or explicitly by the responsible authorities where the work was carried out, and that, if accepted, it will not be published elsewhere in the same form, in English or in any other language, including electronically without the written consent of the copyright-holder. To verify originality, your article may be checked by the originality detection service Crossref Similarity Check.

**Use of inclusive language**

Inclusive language acknowledges diversity, conveys respect to all people, is sensitive to differences, and promotes equal opportunities. Content should make no assumptions about the beliefs or commitments of any reader; contain nothing which might imply that one individual is superior to another on the grounds of age, gender, race, ethnicity, culture, sexual orientation, disability or health condition; and use inclusive language throughout. Authors should ensure that writing is free from bias, stereotypes, slang, reference to dominant culture and/or cultural assumptions. We advise to seek gender neutrality by using plural nouns ("clinicians, patients/clients") as default/wherever possible to avoid using "he, she," or "he/she." We recommend avoiding the use of descriptors that refer to personal attributes such as age, gender, race, ethnicity, culture, sexual orientation, disability or health condition unless they are relevant and valid. These guidelines are meant as a point of reference to help identify appropriate language but are by no means exhaustive or definitive.

**Authorship**

An author of a paper submitted to EJOR is considered to be an individual who has made a significant intellectual contribution to the study. Four criteria must all be met to be credited as an author:

- Substantial contribution to the study at the stage of conception and design, problem modelling, data acquisition, solution method, analysis and interpretation of results.
- Drafting or revising the article for intellectual content.
- Approval of the final version.
- Agreement to be accountable for all aspects of the work related to the accuracy or integrity of any part of the work.

Individuals who are involved in a study but don't satisfy the above criteria for authorship, should be listed as 'Contributors' or 'Acknowledged Individuals'. Examples include: assisting the research by providing advice, sharing the data, providing research space, departmental oversight, and obtaining financial support.

There should be at most 10 authors. In the case the list of authors should include from 7 to 10 individuals, the leading author should present to the Editor a convincing argumentation specifying the role of each listed author prior to the submission. In this case, the submission of a paper can only be made upon an agreement of the Editor. Authors are expected to consider carefully the list and order of authors before submitting their manuscript and provide the definitive list of authors at the time of the original submission. Any addition, deletion or rearrangement of author names in the authorship list should be made only before the manuscript has been accepted and only if approved by the journal Editor. To request such a change, the Editor must receive the following from the corresponding author: (a) the reason for the change in author list and (b) written confirmation (e-mail, letter) from all authors that they agree with the addition, removal or rearrangement. In the case of addition or removal of authors, this includes confirmation from the author being added or removed. Only in exceptional circumstances will the Editor consider the addition, deletion or rearrangement of authors after the manuscript has been accepted. While the Editor considers the request, publication of the manuscript will be suspended. If the manuscript has already been published in an online issue, any requests approved by the Editor will result in a corrigendum.
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Please submit your article via our Editorial Site.

Peer review
The continuing success of EJOR relies not only on high quality submissions, but also on high quality reviews. The editors therefore ask all authors to act also as reviewers and to register for an account in EM if they are not already registered.

This journal operates a single blind review process. All contributions will be screened by the EJOR Managing Editor for language and completeness and, if they pass, assessed by an EJOR Editor for suitability for the journal. Papers deemed suitable are typically sent to a minimum of two independent expert reviewers to assess the scientific quality of the paper. The Editor is responsible for the final decision regarding acceptance or rejection of articles. The Editor's decision is final. More information on types of peer review
PREPARATION

NEW SUBMISSIONS

New submissions should be submitted as a single file, which will be used in the refereeing process. The single manuscript file can be a PDF file or word document. If you prefer to do so, you may still provide some or all source files in addition to the single file. Please note that individual figure files larger than 10MB must be uploaded separately. The total size of the combined submitted files must not exceed 30MB.

If your source files are in LaTeX, please visit our LaTeX site.

Requirements for New Submissions

Your article will be screened by the EJOR Managing Editor and must conform to the following guidelines in order to progress:

1. Standard of English

Please write your text in good English (American or British usage is accepted, but not a mixture of these). Authors who feel their English language manuscript may require editing to eliminate possible grammatical or spelling errors and to conform to correct scientific English may wish to use the English Language Editing service available from Elsevier’s WebShop.

Papers written in poor English will immediately be returned to the authors.

2. Article format

• Page extent

The article should not exceed 30 pages (or 10 pages for Short Communications). The page limit includes the abstract, figures and tables, the main manuscript and the references. If necessary, Appendices can be uploaded as Supplementary Materials.

• Format of text

The article should be A4 or letter size, in single column pages, with 11pt font and 1.5 line spacing. Please do not use double column format or line numbering; line numbers will be added to your paper by the submission system.

• Figures and tables

Please ensure that figures and tables embedded in the single manuscript file are placed next to the relevant text in the article, not at the bottom or top of the file.

Figures should be of a high enough quality for refereeing.

• Reference format

References should follow the style used by the American Psychological Association (APA), with the reference list arranged alphabetically. The use of DOIs is encouraged. Please see the references section in MORE INFORMATION for details.

3. Article structure

The structure should be easy to follow. Sections should be clearly defined and numbered, with headings on separate lines.

Please include the following sections, taking into account the requirements for each:

• Title page

Article title. Please avoid formulae wherever possible. Abbreviations and acronyms are not permitted.

All author names and affiliations, including email addresses and postal addresses. Clearly indicate which author is the corresponding author.

• Abstract

A 50-250 word summary of the article. Please do not include formulae. Please do not include unqualified abbreviations or acronyms. Any abbreviation or acronym that you have defined in the abstract should be redefined in the manuscript text. References should be avoided, but if necessary, include the full reference.

• Keywords

The first keyword should be selected from the list of EJOR Keywords. Please note that the first keyword should also be entered separately under Section/Category in the submission system.

Please include up to 4 additional keywords of your choice.
4. Supplementary materials
If your article contains any videos or other supplementary materials, these should be included in your initial submission for peer review purposes. Please upload supplementary materials as separate files. Note that they will be available in the online version only.

**New Submissions: file inventory**

**Mandatory**
- Manuscript file in PDF or Word format

**Optional**
- Cover letter
- Manuscript source files
- Graphical abstract*
- Highlights*
- Supplementary materials*

Please note that for new submissions of previously rejected papers, an additional "Comments to reviewers" file must also be included.

**New Submissions: checklist**
Before submitting a new manuscript to EJOR, please ensure that your article:
- Conforms to Elsevier's Ethical Guidelines for Journal Publication
- Is written in good British or American English
- Does not exceed 30 manuscript pages (or 10 pages if a Short Communication)
- Uses single column formatting, 11pt font, 1.5 line spacing, and has no line numbers
- Has figures and tables embedded next to relevant text
- Includes references in APA format, with an alphabetical reference list*
- Includes a Title Page, containing all of the essential title page information*
- Includes one keyword from the list of EJOR Keywords and no more than 4 additional keywords*
- Does not contain formulae, abbreviations or acronyms in the Title
- Does not contain formulae or unqualified abbreviations or acronyms in the Abstract
- Does not contain unqualified abbreviations or acronyms in the main text
- Is in a single PDF or Word document (source files and/or supplementary materials* can be uploaded separately if needed)

*Please see the relevant sections in **MORE INFORMATION** for details.

**REVISED SUBMISSIONS**
After peer review, if an editorial decision of "Revise" is made, authors are asked to update their manuscript, according to the advice given by the Editors and referees. Authors are advised to revise and resubmit their manuscript no later than 6 months after the decision. If the revision is not submitted within this time, the review process of the paper will be terminated, and the revised paper will need to be submitted as a new submission.

**Requirements for Revised Submissions**
All revised submissions will be screened (again) by the EJOR Managing Editor, before being passed back to the relevant Editor.
In order for the Editor and/or referees to be certain that the requested changes have been carried out, please clearly outline all of the changes made to the article since its last submission, for example by colouring any new text in red. Changes should also be referred to in the 'Comments to reviewers' file. If there are too many changes, please explain this in the 'Comments to reviewers' file. Note that there is no need to include an additional, clean, version of the manuscript.

At revision stage, several additional components are needed. These should be submitted as separate files:
- **Highlights**
  A short collection of bullet points that convey the core findings of the article.
  Please see the Highlights section in **MORE INFORMATION** for details.
- **Comments to reviewers**
A separate document containing author responses to each of the Editor and/or reviewer queries and suggestions. Each of the changes made to the manuscript since the last review should be explained in this file.

- **Manuscript source files**
  Regardless of the file format of the original submission, at revision stage authors must provide editable files of the entire manuscript.
  These source files (e.g. Word, LaTeX) are required to typeset your article for final publication, in the event that an editorial decision of "Accept" is later made.

**Revised submissions: file inventory**

**Mandatory**
- Manuscript file, with changes clearly shown
- Highlights*
- Comments to reviewers
- Manuscript source files

**Optional**
- Cover letter
- Graphical abstract*
- Supplementary materials*

**Revised submissions: checklist**

Before submitting a revised manuscript to EJOR, please ensure that your article (still):
- Conforms to Elsevier's Ethical Guidelines for Journal Publication
- Is written in good British or American English
- Does not exceed 30 manuscript pages (or 10 pages if a Short Communication)
- Uses single column formatting, 11pt font, 1.5 line spacing, and has no line numbers
- Has figures and tables embedded next to relevant text
- Includes references in APA format, with an alphabetical reference list*
- Includes a Title Page, containing all of the essential title page information*
- Includes one keyword from the list of EJOR Keywords and no more than 4 additional keywords*
- Does not contain formulae, abbreviations or acronyms in the Title
- Does not contain formulae or unqualified abbreviations or acronyms in the Abstract
- Does not contain unqualified abbreviations or acronyms in the main text
- Shows changes made to the manuscript
- Includes a separate Highlights* file
- Includes a separate Comments to reviewers file
- Includes separate source files

*Please see the relevant sections in MORE INFORMATION for details.

**MORE INFORMATION**

**Essential title page information**
- **Title.** Concise and informative. Titles are often used in information-retrieval systems. Abbreviations, formulae and acronyms are not permitted.
- **Author names and affiliations.** Please clearly indicate the given name(s) and family name(s) of each author and check that all names are accurately spelled. Present the authors' affiliation addresses (where the actual work was done) below the names. Indicate all affiliations with a lower-case superscript letter immediately after the author's name and in front of the appropriate address. Provide the full postal address of each affiliation, including the country name and, if available, the e-mail address of each author.
- **Corresponding author.** Clearly indicate who will handle correspondence at all stages of refereeing and publication, also post-publication. **Ensure that the e-mail address is given and that contact details are kept up to date by the corresponding author.**
- **Present/permanent address.** If an author has moved since the work described in the article was done, or was visiting at the time, a 'Present address' (or 'Permanent address') may be indicated as a footnote to that author's name. The address at which the author actually did the work must be retained as the main, affiliation address. Superscript Arabic numerals are used for such footnotes.
Abstract
A concise and factual abstract of between 50 and 250 words is required for all New and Revised Submissions. The abstract should state briefly the purpose of the research, the principal results and major conclusions. An abstract is often presented separately from the article, so it must be able to stand alone. For this reason, references should be avoided, but if essential, the full reference must be included. (For Short Communications, which address deficiencies in previous EJOR papers, the full reference to the original paper should always be included.)

Abstracts should not contain any formulae, or any unqualified abbreviations or acronyms. Abbreviations and acronyms used and defined within the abstract should be defined for a second time within the manuscript main text.

Graphical abstract
Although a graphical abstract is optional, its use is encouraged as it draws more attention to the online article. The graphical abstract should summarize the contents of the article in a concise, pictorial form designed to capture the attention of a wide readership. Graphical abstracts should be submitted as a separate file in the online submission system. Image size: Please provide an image with a minimum of 531 × 1328 pixels (h × w) or proportionally more. The image should be readable at a size of 5 × 13 cm using a regular screen resolution of 96 dpi. Preferred file types: TIFF, EPS, PDF or MS Office files. You can view Example Graphical Abstracts on our information site.

Authors can make use of Elsevier's Illustration Services to ensure the best presentation of their images and in accordance with all technical requirements.

Highlights
Highlights are optional for New Submissions but mandatory for Revised Submissions, as they are included within all accepted papers in this Journal. They consist of a short collection of bullet points that convey the core findings of the article and should be submitted in a separate editable file in the online submission system. Please use 'Highlights' in the file name and include 3 to 5 bullet points (maximum 85 characters, including spaces, per bullet point). You can view example Highlights on our information site.

Highlights must not contain acronyms, abbreviations, formulae, or references.

Keywords
Keywords are required for all New Submissions and Revised Submissions. Selected keyword should be the first keyword in other 2 keyword sections (i.e., during submission process as well in manuscript after abstract). At least the first keyword should be selected from the official list of EJOR Keywords, below. Please note that the first keyword should also be entered separately under ?Section/Category? in the submission system. Some keywords from outside the list may be added but the total number of keywords should not exceed five.

The letters before the keywords represent the Editor who will receive the paper, if it progresses through the initial screening process.

Codes of Editors: (R) - Steffen Rebennack; (B) - Emanuele Borgonovo; (D) - Robert Dyson; (O) - José Fernando Oliveira; (S) - Roman Slowinski; (T) - Ruud Teunter

List of EJOR keywords
- (S) Analytics
- (R) Applied probability
- (S) Artificial intelligence
- (S) Assignment
- (R) Auctions/bidding
- (D) Behavioural OR
- (R) Bioinformatics
- (S) Branch and bound
- (O) Combinatorial optimization
- (D) Community operational research
- (S) Complexity theory
- (R) Computing science
- (R) Conic programming and interior point methods
- (D) Control
- (R) Convex programming
- (D) Cost benefit analysis
• (O) Cutting
• (D) Data envelopment analysis
• (R) Data science
• (B) Decision analysis
• (D) Decision processes
• (S) Decision support systems
• (B) Distributed decision making
• (O) Distribution
• (S) Dynamic programming
• (D) E-commerce
• (O) Education
• (D) Ethics in OR
• (S) Evolutionary computations
• (R) Facilities planning and design
• (B) Finance
• (O) Flexible manufacturing systems
• (T) Forecasting
• (R) Fractional programming
• (S) Fuzzy sets
• (B) Game theory
• (O) Genetic algorithms
• (R) Global optimization
• (S) Goal programming
• (R) Graph theory
• (S) Group decisions and negotiations
• (O) Heuristics
• (D) Human resource planning
• (O) Humanitarian logistics
• (R) Integer programming
• (T) Inventory
• (B) Investment analysis
• (S) Knowledge-based systems
• (R) Large scale optimization
• (R) Linear programming
• (O) Location
• (T) Logistics
• (R) Machine learning
• (T) Maintenance
• (T) Manufacturing
• (R) Markov processes
• (O) Metaheuristics
• (D) Multi-agent systems
• (S) Multiple criteria analysis
• (S) Multiple objective programming
• (R) Multivariate statistics
• (R) Networks
• (R) Nonlinear programming
• (D) OR in agriculture
• (R) OR in airlines
• (B) OR in banking
• (T) OR in defence
• (D) OR in developing countries
• (O) OR in disaster relief
• (R) OR in energy
• (B) OR in entertainment
• (R) OR in environment and climate change
• (D) OR in government
• (O) OR in health services
• (O) OR in maritime industry
• (D) OR in marketing
• (S) OR in medicine
• (R) OR in natural resources
• (B) OR in organization theory
• (D) OR in research and development
• (R) OR in scientometrics
• (O) OR in service industries
• (D) OR in societal problem analysis
• (D) OR in sports
• (R) OR in telecommunications
• (O) Packing
• (S) Preference learning
• (D) Pricing
• (D) Problem structuring
• (T) Production
• (D) Productivity and competitiveness
• (B) Project management
• (S) Project scheduling
• (T) Purchasing
• (R) Quality control
• (T) Quality management
• (R) Queueing
• (B) Reliability
• (R) Replacement
• (O) Retailing
• (D) Revenue management
• (B) Risk analysis
• (D) Risk management
• (R) Robustness and sensitivity analysis
• (S) Rough sets
• (O) Routing
• (B) Scenarios
• (S) Scheduling
• (R) Semi-infinite programming
• (B) Simulation
• (R) Stochastic processes
• (R) Stochastic programming
• (D) Strategic planning
• (T) Supply chain management
• (D) System dynamics
• (O) Timetabling
• (R) Traffic
• (O) Transportation
• (O) Travelling salesman
• (R) Uncertainty modelling
• (B) Utility theory
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