



EURO Newsletter # 94
December 22, 2021

Visit our Website



We welcome submissions to the following journals published by EURO.

European Journal of Operational Research (EJOR), published by Elsevier. Created as an independent journal in 1976, EJOR became a EURO journal in 1990. Its coordinating Editor is Roman Słowiński.

EURO Journal on Computational Optimization (EJCO), published by Elsevier. It was officially launched in 2011. Its Editor in Chief from 2021 is Immanuel Bomze.

EURO Journal on Decision Processes (EJDP), published by Elsevier. It was officially launched in 2011. Its Editor in Chief is Jutta Geldermann.

EURO Journal on Transportation and Logistics (EJTL), published by Elsevier. It was officially launched in 2011. Its Editor in Chief is Dominique Feillet.

We now have 15 **tutorials** published in the series of EURO Advanced Tutorials. Please take a look at our titles:

***Facility Layout**

***Matheuristics**

***From Shortest Paths to Reinforcement Learning**

***Risk Management for Pension Funds**

***Even Convexity and Optimization**

***Orienteering Problems: Models and Algorithms for Vehicle Routing Problems with Profits**

***Nonlinear Programming Techniques for Equilibria**

***Analytical Techniques in the Assessment of Credit Risk**

***Traffic Flow Modelling**

***Supply Chain Finance**

***Metaheuristics for Business Analytics**

***Compact Extended Linear Programming Models**

***Multiobjective Linear and Integer Programming**

***Dual-Feasible Functions for Integer Programming and Combinatorial Optimization**

***Linear and Mixed Integer Programming for Portfolio Optimization**

Series Editors

- M. Grazia Speranza, Dipartimento de Economia e Management. Università di Brescia. Italy. (e-mail: grazia.speranza@unibs.it)
- José Fernando Oliveira, Faculdade de Engenharia. Universidade do Porto, Portugal. (e-mail: jfo@fe.up.pt)

Please contact the editors for more information or to submit ideas for topics.

It is important to include reminders about particular EURO events and publications as the deadlines approach but these will now be shaded slightly so that regular readers can more easily see the new items.

Special Announcements

EURO 2022
Espoo, Finland,
3-6 July, 2022

We have the great pleasure of inviting you to take part in the 32nd EURO Conference to be organized in Espoo, Finland on 3-6 July, 2022.

The Scientific and Organization Committees, chaired by Dolores Romero Morales and Antti Punkka, along with Juuso Liesiö and Eeva Vilkkumaa, are preparing a conference to remember.

EURO 32nd Conference will be an excellent opportunity for the OR community to get together again in a pleasant atmosphere, and we are looking forward to meeting you in Espoo next summer!

We are extremely pleased to announce our full list of Plenary and Keynote speakers.

Plenary Speakers

**Andrea Lodi - IFORS
Distinguished Lecturer**



Marja-Liisa Siikonen



Christina Pagel



Keynote Speakers

Fran Ackermann



Jacek Gondzio



Emilio Carrizosa



Martin Schmidt



**Athanasios
Yannacopoulos**



Krzysztof Burnecki



Burcu Balçık



Antonio Conejo



Claudia Archetti



James Cochran



Grit Walther



Daniel Kuhn



CALL FOR PAPERS AND SESSIONS:

Researchers, academics, practitioners, and students interested in any branch of Operational Research, mathematical modelling or economic analysis are invited to submit abstracts or organize sessions. Invited and contributed papers will be organized in parallel sessions. In general, sessions are part of the Conference streams, and streams are grouped in different areas. The list of areas and streams is available at <https://euro2022espo.com/conference-programme/areas-and-streams/>.

No participant can present more than one paper at the Conference.

Researchers who wish to organize a stream or an invited session or contribute with a paper within an invited session should contact a PC member of the corresponding area.

IMPORTANT DATES:

Abstract submission deadline: **Friday, March 4, 2022**

Early registration deadline: Friday, March 25, 2022

Author registration deadline: Friday, April 8, 2022

REGISTRATION FEES:

Regular: €385.00 (early); €513.00 (late),

Student/Retired: €210.00 (early); €280.00 (late),

Accompanying persons: €129.00.

The regular/student registration fee includes:

*Admission to all sessions and the exhibition

*Conference materials

*Tea, coffee and lunches throughout the conference

*Admission to the Welcome Reception on Sunday and to the Farewell Party on Wednesday

The registration fee for an accompanying person covers the same except the admission to sessions and conference materials.

Please note that the Conference Gala Dinner on Tuesday is not included in the registration fee.

CALL FOR EXHIBITORS:

Parties interested in having a booth or exhibition area during the Conference are kindly requested to contact the EURO 2022 Conference Secretariat (Gráinne McQuaid, Senior Project Manager: euro2022@abbey.ie).

We look forward to welcoming you to our great conference in Espoo!

Dolores Romero Morales

Antti Punkka, Juuso Liesiö, Eeva Vilkkumaa

For any further information, contact the EURO 2022 CONFERENCE SECRETARIAT:

c/o Abbey Conference & Events

· Phone: (+353) 1 648 6130

· Email: euro2022@abbey.ie

EURO PhD School

Data Driven Decision Making and Optimization

Seville, Spain, 13-22 June, 2022



Website

The EURO PhD School (EPS) will be focused on giving participants advanced training on the use of Data Science to aid Data Driven Decision Making. There will be two main components in this EPS. First, methodological training on the role of Mathematical Optimization in Data Science will be given in the format of lectures and computer workshops. The lectures will highlight the mathematical modelling and numerical optimization behind data analysis and data visualization tools. The computer workshops will put this knowledge in action. Second, applications of the acquired knowledge to the modeling of specific industrial problems will be presented by professionals from industry and worked out by the PhD students. Mathematical models and numerical solution approaches will be developed and communicated, following a collaborative approach, in which the PhD students will work in small groups under the guidance of the instructors.

To apply to the EURO PhD School on Data Driven Decision Making and Optimization, the candidates should be from a EURO member society country or studying in a **EURO member society country**. Preference will be given to applicants who have not previously received support from EURO for other PhD schools.

PhD students need to apply to be admitted to the EURO PhD School. The candidates will be required to have basic knowledge of Mathematical Optimization, Operations Research or Statistical Data Analysis. Applications should be submitted via email to <mailto:eps2022@cbs.dk>, with the subject "Application to EURO PhD School in Seville". For the application the following documents are needed:

- Curriculum Vitae from the applicant
- A letter of motivation from the applicant to attend EURO PhD School
- Recommendation letter from the PhD supervisor

Those applicants admitted to the EURO PhD School will be automatically considered for a scholarship to partially cover the fees of the EURO PhD School. The applications will be reviewed by the scientific committee. The committee will consider (amongst other criteria): the excellence of the applicants, the area they are working in, and the benefit to the PhD student of attending the EURO PhD School.

The attendance of the EURO PhD School implies the payment of a fee covering:

- (i) accommodation,
 - (ii) meals, and
 - (iii) social activities. There will be 20 scholarships to partially cover the fees.
- The reduced fee (with a scholarship) is €200.
 - The full fee (without a scholarship) is €500.

Important dates:

February 15, 2022 Deadline for applications
March 1, 2022 Notification of acceptance decision
June 13-22, 2022 EURO PhD School on Data Driven Decision Making and Optimization



ESI on Location Science

Edinburgh, UK

11-24 June, 2022



[Website](#)

Overview of the EURO Summer Institute

14 years have passed since the twenty-fifth EURO Winter Institute on Location and Logistics held in Estoril, Portugal, in January and February 2007. It was the last one devoted to locational analysis and five laureates of previous Summer/Winter Institutes felt it was high time to organise another one devoted to location science, taking place in Edinburgh, Scotland, from 11 June to 24 June 2022.

EURO Summer/Winter Institutes are an instrument EURO has established for the encouragement of good scientific and social relationships between promising early stage OR scientists. The main purpose of the institutes is to establish in each field of OR a network of outstanding people who will continue to work together in the future. Participation at an ESI is an honour.

The scientific sessions will be hosted at the International Centre for Mathematical Sciences (ICMS) in the Bayes Centre, a modern building in the city centre. Accommodation will be provided at Pollock Halls, an accommodation on campus, and laureates will share a double room with another laureate. Both venues belong to The University of Edinburgh and are 15-20 minutes walking from each other, a very nice walk in a very safe neighbourhood.

Scientific Programme

To be eligible, a candidate must be the main contributor of a single-authored or co-authored paper related to the field of Location Science, which has not yet been published or accepted for publication. Topics of interest are, for example:

- Network location.
- Continuous location.
- Location-routing.
- Hub location.
- Geographical information systems and location.
- Supply chain design.
- Discrete location.
- Location under uncertainty.
- Location in healthcare.

Each laureate will give a presentation of 45 minutes about their paper, plus questions. Moreover, there will be presentations from international experts.

In addition to those presentations, we intend to hold three workshops, each coordinated by two or three of the invited speakers. During these workshops, the laureates, split into groups, will have the chance of working together on a given topic. After two days, each group will present its findings to all laureates. These workshops give the laureates the opportunity to delve deeper into some of the topics addressed in the talks of the experts. Furthermore, we hope to encourage laureates to work together on some problems and, hopefully, lay the grounds for future collaborations among them.

The first workshop will start in the middle of the first week, with the presentations on Friday. The other two workshops will be scheduled for the second week. This schedule is not only to give enough time for the laureates to get to know each other, but also to ensure that by the time of the workshops, the laureates have already attended the relevant lectures for the corresponding topics.

Finally, we are very pleased to say that there will be a special issue of Computers & Operations Research covering the topics of the ESI and that selected papers of the Institute will be eligible for submission.

Social Programme

Several social activities are planned to encourage laureates to socialise. The (tentative) list of activities includes

- a ceilidh (a traditional Scottish dance)
- a guided city tour of Edinburgh, including a hike to Arthur's Seat
- a whisky tasting at the Scotch Malt Whisky Society
- and an excursion to North Berwick, a scenic seaside village 25 miles east of Edinburgh, including a boat trip to the famous Bass Rock with its stunning population of gannets and puffins, and a walk along the coast to Tantallon Castle, a ruined mid-14th-century fortress

Applying to the ESI

If accepted, the ESI will cover the full cost for accommodation and board of each laureate for the duration of the institute.

To apply to the ESI, you

- Have to be a current PhD student or researcher with less than two years research experience since completing your PhD.
- Have to come from a EURO member society country, or study in a **EURO member society country**.
- Must not have been a laureate of a previous EURO Summer/Winter Institute.

What to submit?

- * A Curriculum Vitae, including information about your education, research projects, publications, awards, and other pertinent experiences (pdf format).
- * A single-authored or co-authored paper in the field of "Location Science" where you are the main contributor and which has not yet been published or accepted for publication (pdf format).
- * A statement outlining your motivation for participating in the ESI (at most one page).
- * A letter of recommendation from one referee (preferably the thesis advisor or head of department).

How to submit?

The applications should be submitted electronically through:

<https://www.euro-online.org/awards/esi2022/registration.php>

The deadline for submission is **10 January 2022**.

The admission process for candidates will focus on the quality of their submitted paper, their scientific background as well as their interest in the field of Location Science. Applicants might be asked to clarify their statement before the final decision.

The Scientific Committee selects and ranks the candidates and the Organising Committee will liaise with the national OR societies to secure funding to cover travel expenses (which are not included in the ESI grant). The Scientific Committee will notify applicants about the final decision by email by 21 February 2022.

The office of the IFORS Vice President for EURO is pleased to announce a sponsorship of up to two participants to join the 2022 EURO Summer Institute on "Location Science" to be held in Edinburgh, United Kingdom, June 11-24, 2022.

The selected IFORS-EURO scholar(s) will receive joint sponsorship from IFORS and EURO. IFORS will sponsor the travel costs of the delegate coming from a **non-EURO member society**. EURO will shoulder expenses related to the registration, accommodation, meals, and social activities to the IFORS fellow. Applicants from developing countries will be given preferential treatment for the slot. Those who have joined EURO Institutes in the past cannot apply.

The applications should be submitted electronically through:

<https://www.euro-online.org/awards/esi2022/registration.php>

Please indicate in your application that you are outside EURO and that you would like to apply for an IFORS-EURO sponsorship.

Applications should include:

- * A Curriculum Vitae, including information about your education, research projects, publications, awards, and other pertinent experiences (pdf format).
- * A single-authored or co-authored paper in the field of "Location Science" where you are the main contributor and which has not yet been published or accepted for publication (pdf format).
- * A statement outlining your motivation for participating in the ESI (at most one page).
- * A letter of recommendation from one referee (preferably the thesis advisor or head of department).

Deadline for applications: **January 10, 2022**

Notification of acceptance: February 21, 2022



IFORS-EURO Scholarships

Questions regarding the sponsorship can be sent by email to:

Professor Stefan Nickel,
 Karlsruhe Institute of Technology
 IFORS Vice President for EURO
 Email: vpifors@euro-online.org

Website



Some contributions of Ailsa H. Land to the study of the traveling salesman problem



[Link to article](#)

It is with great pleasure that Elsevier, through EJCO, has published the historic article of this years' EURO medallist. With our thanks to Gilbert Laporte and Immanuel Bomze for their efforts in preparing this extremely valuable text.

Highlights

- Ailsa H. Land made several important contributions to the Traveling Salesman Problem
- She contributed to the development of branch-and-cut and cut-and-price for this problem
- This note presents some of her main contributions dating from 1955 and 1979

Abstract

Ailsa H. Land, who received the 2021 EURO Gold Medal, made some important contributions to the study of the Traveling Salesman Problem, which were published in a 1955 journal article and in a 1979 working paper. The purpose of this introductory note is to describe these contributions.

EURO Awards 2022 Call for Applications



EURO Prize for OR for the Common Good (EPOCG) ****NEW AWARD****

[Website](#)

All interested candidates are invited to submit a detailed description of an application of OR with a real impact on society for the common good, which has original features, whether in methodology, field of application and/or implementation. This may be in the form of a paper written for publication (although not necessarily published at the time of submission), a client report, or other appropriate documentation. The documentation must describe the work in a way that illustrates how it meets the criteria outlined below. The age limit for published papers is four years. The work must not have been submitted concurrently to another competition. The application is open to OR specialists from any part of the world. Please also check the **guidelines**.

The criteria for the evaluation of the papers are:

- real impact on society for the common good,
- scientific quality,
- appreciation by the organisation involved with the application,
- originality in methodology, implementations and/or field of application.

Letters of appreciation by the organization involved with the application are important.

The jury selects a short-list of finalists who will present their work in a special session at the 32nd European Conference on Operational Research in Espoo. There is no registration fee for one representative of each of the finalist presentations. The winner will be determined by the jury at the end of the special session(s) and will be announced by the chair of the jury during the closing session of the EURO 2022 Conference.

Applications should be submitted (as a zip file or equivalent single submission) online <http://www.euro-online.org/awards/epocg2022/registration.php> by the deadline of **January 31, 2022**.

EURO Doctoral Dissertation Award (EDDA)

[Website](#)

The EDDA 2022 jury will only consider dissertations in Operational Research defended between 1 January 2021 and 31 December 2021. The dissertation must have been defended in a University located in a **member country of EURO**. The author of the dissertation must be a member of a member society of EURO.

To be considered, a dissertation should be nominated by the supervisor of the thesis (one of them in case of multiple supervisors). The supervisor of the dissertation is asked to provide the jury with the following information:

1. The text of the dissertation;
2. An extended abstract (3 to 5 pages) of the dissertation; this abstract should be written in English and should include precise keywords;
3. If the dissertation is not in English, a paper in English which has been authored or co-authored by the candidate and which describes the core ideas of the dissertation. This paper should preferably have been published in or submitted to an international journal;
4. **Nomination letters** (or reports) from two referees selected by the dissertation supervisor, supporting the submission and stating their assessment of why the dissertation should win the award;
5. An up-to-date CV of the candidate, including a list of publications.

No nomination will be considered without these items. Please also check the **guidelines**.

Since many doctoral dissertations in OR are defended each year only outstanding pieces of work are expected to be submitted. The jury would like to remind supervisors that only high-quality theses might have a chance of winning the award.

The jury selects a shortlist of finalists who will present their work in a special session at the 32nd European Conference on Operational Research in Espoo. There is no registration fee for each finalist. EURO will also contribute to the travel and accommodation expenses. The winner will be determined by the jury at the end of the special session(s) and will be announced by the chair of the jury during the closing session of the EURO 2022 Conference.

Applications should be submitted (as a zip file or equivalent single submission) online <http://www.euro-online.org/awards/edda2022/registration.php> by the deadline of **January 31, 2022**.

EURO Excellence in Practice Award (EEPA)

Sponsored by



Website

All interested candidates are invited to submit a detailed description of an application of OR with a real impact on practice, which has original features, whether in methodology, field of application and/or implementation. This may be in the form of a paper written for publication (although not necessarily published at the time of submission), a client report, or other appropriate documentation. The documentation must include a document which explicitly states, for each of the criteria below, how the application meets that criterion. This document may be a summary document, pointing towards evidence contained in other documents submitted or referenced as part of the application; or it may form the main body of the application if that is more appropriate. The first full application (i.e. not counting any piloting or prototyping) must be no more than four years ago; but must be long enough ago to allow for convincing assessment of realised benefits. The work must not have been submitted concurrently to another competition. The application is open to OR specialists from any part of the world. Please also check the **guidelines**.

The criteria for the evaluation of the submissions are:

- the real impact on practice,
- the scientific quality of the application,
- the relevance to Operational Research,
- the appreciation by the organisation involved with the application,
- the originality in methodology, implementations and/or field of application.

A letter or other evidence of appreciation by the organisation or organisations that made use of the work described is essential, and will form part of the assessment.

The jury selects a short-list of finalists who will present their work in a special session at the 32nd European Conference on Operational Research in Espoo. There is no registration fee for one representative of each of the finalist presentations. The winner will be determined by the jury at the end of the special session(s) and will be announced by the chair of the jury during the closing session of the EURO 2022 Conference.

Applications should be submitted (as a zip file or equivalent single submission) online <https://www.euro-online.org/awards/eeepa2022/registration.php> by the deadline of **January 31, 2022**.

IFORS Developing Countries OR Resources Website



IFORS Developing Countries Online Resources
Steadily enriched - your documents count

The aim of the IFORS Developing Countries Online Resources page is to offer the OR worker all publicly-available materials on the topic of OR for Development. It also aims to provide a venue for people who are working in the area to share their completed or in-process work, learn from others, and stimulate comments and discussions on the work. Regarding IFORS Developing Countries OR resources website, its regular updates - and your possible submission of "free" (not copyright protected) material, you might occasionally visit http://ifors.org/developing_countries/index.php?title=Main_Page.

With this open resources page we aim to make research and application results better accessible to the many friends in the Developing Countries. We would be glad about interest.

Contributions from art and science, communication and education sectors are warmly welcome by our community which has very little access to emerging documents on arts and sciences, research, design and development.

"Operational Research" (OR) is the discipline of applying advanced analytical methods to help make better decisions. By using techniques such as problem structuring methods and mathematical modelling to analyze nontrivial situations, Operational Research gives executives the power to make more effective decisions and build more productive systems.

The International Federation of Operational Research Societies (IFORS; <http://ifors.org/>) is an almost 60-year old organization which is currently composed of 51 national societies. Regional Groups of IFORS are: ALIO (The Latin American Ibero Association on Operations Research), APORS (The Association of Asian-Pacific Operational Research Societies), EURO (The Association of European Operational Research Societies), NORAM (The Association of North American Operations Research Societies).

Thank you very much for your attention.
With kind regards, best wishes
PS: Feedback is welcome via gerhard.weber@put.poznan.pl.

EURO Journals Open Access Fees



We are pleased to announce that the open access Article Publishing Charge (APC) fee covered by EURO has been extended.

For **EJTL** the open access Article Publishing Charge (APC) fee will be covered by EURO for articles submitted by **31st December 2022**.

For **EJCO** and **EJDP** the open access Article Publishing Charge (APC) fee will be covered by EURO for articles submitted by **31st December 2023**.



Conferences, Schools and Meetings

6th AIRO Young Workshop on "Operation Research and Data Science in Public Services"

Rome, Italy, 23rd-25th February, 2022



Website

With this call we invite all AIROYoung members, PhD students in Operations Research and related topics, early-stage Researchers (PhD degree \leq 5years) or anyone with a strong interest in OR (\leq 35years old) to submit Abstracts on novel contributions in the field of "Operation Research and Data Science in Public Services" to be presented during the Workshop.

The participation to the 6th AIROYoung Workshop is free.

Thanks to the financial support offered by AIRO and our sponsors we are able to provide a limited number of GRANTS to cover accommodation expenses for the entire event.

To apply for the grant, please send an email at ayw2022@uniroma3.it with "Application to Grant – NAME SURNAME" from the 25th November 10:00 am (CET).

The Grants will be given on a first-come first-served basis to participants that have successfully completed the event registration and that are (or are willing to become) AIROYoung members.

In order to be entitled for the grants, we will ask by email eligible people to send us proofs of AIROYoung membership and travel booking no later than 17th January.

If you are not already, an AIROYoung member please write to airo.young.researchers@gmail.com.

Abstracts should be sent by the **30th December** to ayw2022@uniroma3.it with "Abstract submission AYWorkshop" as email's subject.

The abstract must contain no more than 200 words and should be confined within a single page (front matter and references included) and be sent in pdf format.

We suggest to name your abstract as SURNAME_NAME_6AYW. Abstracts will be selected by the Program Committee to be included in the conference e-book of abstracts.

Notification of Abstract acceptance will be notified to the author by email no later than the 14th January.

While not mandatory, please complete the registration before sending the Abstract. Priority for acceptance to present during the workshop will be given to in person participants at the beginning of their career.

www.airoyoung.org

@AIROYoungResearchersChapter

@AIROyoung

Copenhagen School of Stochastic Programming - International PhD School

Copenhagen, Denmark, 4-8 April, 2022

Website

The Copenhagen School of Stochastic Programming is a PhD course that provides a rigorous and research-oriented introduction to stochastic programming, a mathematical framework for decision-making in the presence of uncertainty. In many real-life problems, important information is unknown to the decision-maker and only distributional information is available. Examples include the scheduling of power generation while demand and renewable production is uncertain, investments in assets with uncertain future returns or production of goods for which demand is stochastic.

The course is taught by world-renowned experts on the subject (see below). It will start by formalizing decision problems under uncertainty as mathematical optimization problems and analyzing their fundamental mathematical properties. From a computational perspective, these problems may be extremely challenging. Thus, a major part of the course will discuss approximations, mainly of the underlying probability distributions (so-called scenario generation), and stability of the optimization problems. The course will then proceed with a number of applications in the energy sector, an area for which stochastic programming has become increasingly important with the adoption of intermittent renewable energy sources. Finally, a selection of solution methods will be addressed, including exact decomposition procedures and approximate methods with strong connections to emerging approaches in machine learning.

The course is primarily aimed at PhD students who require a solid introduction into decision making under uncertainty. Nevertheless, it is open to anyone who would like to approach the subject, ranging from master's students to more experienced researchers and professionals. A participant can earn a certificate of 3.5 ECTS upon successful completion the course. The course is open to students from all over the world and the registration is free.

ISCO 2022 (International Symposium on Combinatorial Optimization)

ONLINE, 16-20 May, 2022

Website

ISCO (International Symposium on Combinatorial Optimization) is a biennial symposium whose aim is to bring together researchers from all the communities related to combinatorial optimization, including algorithms and complexity, mathematical programming, operations research, optimization under uncertainty, graphs and combinatorics. It is intended to be a forum for presenting original research in these areas and especially in their intersections. Quality papers on all aspects of combinatorial optimization, from mathematical foundations and theory of algorithms to computational studies and practical applications, are solicited.

ISCO 2022 will be held online (May 18-20, 2022) and will be preceded by a Spring School (May 16-17, 2022) which is dedicated to PhD students but the lectures are also open to other colleagues.

SUBMISSIONS and PUBLICATIONS:

There are two types of submissions:

- Regular papers up to 12 pages. The post-conference proceedings will be published by Springer (LNCS series). For an accepted paper to be included in the proceedings, it should be presented at the conference by one of the authors. The authors of accepted papers will have to prepare their camera-ready version two weeks after the end of the conference.
- Extended abstracts up to 3 pages. Accepted abstracts will be published online on the conference website (and will not be included in the post-conference proceedings).

IMPORTANT DATES:

- Submission deadline: **February 15, 2022** (regular papers) and March 31, 2022 (extended abstracts)
- Notifications: April 20, 2022
- Registration deadline: May 10, 2022
- Spring school: May 16-17, 2022
- Online conference: May 18-20, 2022

PLENARY SPEAKERS:

Jon Lee, University of Michigan, USA
Petra Mutzel, Bonn University, Germany
Rekha R. Thomas, University of Washington, USA
Rico Zenklusen, ETH Zurich, Switzerland

EWG DSS, EURO Working Group on Decision Support Systems

8th International Conference on Decision Support System Technology

Thessaloniki, Greece, 23-25 May, 2022



Website

Main Theme: "Decision Support addressing modern Industry, Business and Societal needs"

Decision Support Systems (DSS) are designed to assist Policymakers (and not only) to tackle issues that are increasingly complex, trying to navigate the different objectives of multiple and diverse stakeholders, while attempting to take decisions that are robust under different circumstances and do not produce undesirable consequences. Therefore, there is a concrete need to generate knowledge from information as well as from models relying on that information. In addition, in the modern digital age, theoretical and technological advances allow DSSs to better model human decision-making capabilities. The new business models of this era accentuate the demand for a customized and intelligent decision support able of meeting the needs of modern industry, business, and society.

The Organising Committee of the ICDSST 2022 invites researchers, educators, developers, specialists and other professionals in the related areas of decision-making, including its methodologies and technologies, as well as application oriented practitioners directed to the implementation of solutions for decision support challenges, to submit their work to the ICDSST 2022 Conference.

Authors are requested to submit full papers, short papers or posters. All templates can be found on the webpage. All papers and posters should be submitted to the ICDSST 2022 via the following EasyChair account: <https://easychair.org/conferences/?conf=icdsst2022>.

Full Papers:

Submission: **31 January 2022**
Notification of acceptance: 28 February 2022
Camera ready version: 15 March 2022

Short Papers:Submission: **31 January 2022**

Notification of acceptance: 28 February 2022

Camera ready version: 15 March 2022

Posters:Submission: **31 January 2022**

Notification of acceptance: 28 February 2022

Camera ready version: 15 March 2022

All EWG-DSS founding members and senior Collaborators from other EURO WGs and DSS Communities, who have consistently contributed to the research in the DSS area in the last years, are highly encouraged and invited to submit their contributions and participate in the conference. For further information contact the EWG-DSS: ewg-dss@fon.bg.ac.rs

Looking forward to seeing you in Thessaloniki in 2022!

Mixed Integer Programming (MIP) Workshop

DIMACS, Rutgers University, 23-26 May, 2022

[Website](#)

The Mixed Integer Programming (MIP) Workshop is a single-track workshop highlighting the latest trends in integer programming and discrete optimization, with speakers chosen by invitation.

The MIP 2022 edition of the workshop will be the nineteenth in the MIP series, and it will be opened by DANniversary, a special conference in celebration of Daniel Bienstock's 60th birthday.

This year, we will also host a **computational competition**. All relevant information can be found [here](#).

Speakers

- Manuel Aprile (University of Padova)
- Beste Basciftci (University of Iowa)
- Sam Burer (University of Iowa)
- Marianna De Santis (University of Roma)
- Bistra Dilkina (University of Southern California)
- Samuel Fiorini (ULB)
- Ignacio Grossman (CMU)
- Oktay Günlük (Cornell)
- Georgina Hall (INSEAD)
- Kim-Manuel Klein (University of Kiel)
- Christian Kroer (Columbia University)
- Yin Tat Lee (University of Washington)
- Jean-Philippe Richard (University of Minnesota)
- Christopher Thomas Ryan (University of British Columbia)
- Nick Sahinidis (Georgia Tech)
- Felipe Serrano (I2Damo GmbH)
- Alfredo Torrico (Polytechnique Montréal)
- Vera Traub (ETH Zurich)
- Laszlo Vegh (LSE)
- Juan Pablo Vielma (Google)
- Yiling Zhang (University of Minnesota)

12th IEEE Workshop on Parallel / Distributed Combinatorics and Optimization (PDCO 2022)

Lyon, France, 30 May-3 June, 2022

[Website](#)

The IEEE Workshop on Parallel / Distributed Combinatorics and Optimization aims at providing a forum for scientific researchers and engineers on recent advances in the field of parallel or distributed combinatorics for difficult optimization problems, ranging from theoretical to applied problems. The latter include for instance 0-1 multidimensional knapsack problems and cutting stock problems, large scale linear programming problems, nonlinear optimization problems, global optimization and scheduling problems.

Emphasis will be placed on new techniques for solving difficult optimization problems, like cooperative methods for integer programming problems, nature-inspired techniques and hybrid methods. Aspects related to Combinatorial Scientific Computing (CSC) will also be treated. We also solicit submissions of original manuscripts on sparse matrix computations and related topics (including graph algorithms); and related methods and tools for their efficiency on different parallel systems. Applications combining traditional parallel and distributed combinatorics and optimization techniques as well as theoretical issues (convergence, complexity, etc.) are welcome.

Application domains of interest include (but are not limited to) cloud computing, planning, logistics, manufacturing, finance, telecommunications and computational biology.

Important Dates:

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- Extended submission deadline: **January 7, 2022**
- Decision notification: January 28, 2022
- Camera-Ready papers due: March 15, 2022
- Workshop: June 3, 2022

EWG VEROLOG, EURO Working Group on Vehicle Routing and Logistics

VeRoLog 2022. 8th meeting of the EURO Working Group on Vehicle Routing and Logistics Optimization

Hamburg, Germany, 12-15 June, 2022



[Website](#)

The eighth meeting of the EURO Working Group on **Vehicle Routing and Logistics Optimization** will be jointly hosted by the Kühne Logistics University and the Helmut Schmidt University in the beautiful city of Hamburg, Germany.

The VeRoLog conference is a meeting bringing together the large community of researchers and practitioners interested in vehicle routing optimization and its relationship with logistics. The conference is open to high quality methodological contributions, relevant real-world applications, and case studies from industry and the service sector.

IMPORTANT DATES

- Submission deadline: **January 15, 2022**
- Notification of acceptance: February 15, 2022
- Early registration / payment deadline: March 15, 2022
- Late registration / payment deadline: April 15, 2022

10th IFAC MIM 2022 conference

Nantes, France, 22-24 June, 2022

[Website](#)

We invite you to submit proposals of invited sessions, invited and regular papers for the 10th IFAC triennial conference on Manufacturing Modelling, Management and Control, MIM 2022.

One of the worldwide largest conferences matching industrial and manufacturing engineering, supply chain and operations management, computer science, robotics and automation, artificial intelligence, decision science and operations research.

The submission website is: <https://ifac.papercept.net/conferences/scripts/start.pl>

Invited session organizers should submit a short abstract that summarizes the aim and content of the invited session, a code will be assigned to the session. Potential authors are invited to submit papers by using the code.

If at least 5 papers are accepted, the session is included in the conference program as an invited session.

If an invited session is not accepted, accepted papers submitted to this session will be included in regular sessions.

If you wish to organize an entire Track (at least 3 sessions), invited sessions which will compose the track must be submitted independently, but in addition an abstract of the Track should also be submitted and mention the titles of sessions.

The tentative deadlines for IFAC MIM 2022:

- **25 December 2021** : Submission of draft papers for regular and invited sessions (6 pages in IFAC format)
- 15 February 2022: Notification to authors/ Start of registration
- 15 March 2022: Submission of final camera ready versions of accepted papers
- 30 April 2022: Early registration rates expire

The conference is dedicated to the 60th volume anniversary of the International Journal of Production Research (IJPR).

EURO Working Group on Stochastic Optimization

ECISO-CMS 2022 European Conference on Stochastic Optimization Computational Management Science Conference



Venice, Italy, 29 June-1 July, 2022

[Website](#)

IMPORTANT DATES

Abstract submission: **March 31, 2022**

Notification of acceptance: April 20, 2022

Early registration: April 30, 2022

Conference: 29-30 June – 1 July, 2022

ECISO 2022 is the 3rd edition of a stream of conferences organized by the EURO Working Group on Stochastic Optimization (EWGSO). The previous editions were held in Paris (2014) and Rome (2017). The scope of the conference is to bring together researchers and professionals in Stochastic Optimization and its applications in different fields spacing from economics and finance to supply chain, logistics, etc.

CMS 2022 is the 17th edition of an annual meeting associated with the journal of Computational Management Science published by Springer. The aim of the conference is to provide a forum for theoreticians and practitioners from academia and industry to exchange knowledge, ideas and results in a broad range of topics relevant to the theory and practice of computational methods in management science.

This joint event will provide a forum for fruitful discussions and interactions among researchers and professionals from industry and institutional sectors on decision making under uncertainty in a complex world. The conference will be within the scopes of both CMS and EWGSO and, in particular, it will focus on models, methods and computational tools in stochastic, robust and distributionally robust optimization and on computational aspects of management science with emphasis on risk management, valuation problems, measurement applications. Traditional fields of application, such as finance, energy, water management, logistics, supply chain management, and emerging ones, such as healthcare, climate risk and sustainable development, will be included.

ECISO – CMS 2022 is jointly organized by the Department of Economics of Ca' Foscari University of Venice, the CMS Journal and the EURO Working Group on Stochastic Optimization.

BEST STUDENT PAPER PRIZE

A prize for the student best paper will be awarded. Papers should be nominated via e-mail by the students' supervisors (ecsocms2022@unive.it). Deadline for the submissions to the prize is **May 15**. The program will include a devoted session for presenting the best papers to compete for the prize, such that the jury could make the final choice. The paper does not have to be published. The papers should be principally authored by the student, but co-authors are permitted as long as their contributions are clarified. Only registered participants' papers will be considered for the prize.

PLENARY SPEAKERS

DARINKA DENTCHEVA, Stevens Institute of Technology (USA)

DAVID MORTON, Northwestern University (USA)

GAH-YI BAN, Robert H. Smith Business School, University of Maryland (USA)

DANIEL KUHN, École polytechnique fédérale de Lausanne (CH)

GIORGIO CONSIGLI, Khalifa University of Science and Technology (UAE), Università di Bergamo (I)

WARREN POWELL, Princeton University (USA)

University Conference Secretariat: ecsocms2022@unive.it

2022 Genetic and Evolutionary Computation Conference (GECCO 2022)

ONLINE/Boston, USA, 9-13 July, 2022

Website

We are inviting you to submit your latest top-quality work for presentation and publication at the Genetic and Evolutionary Computation Conference 2022, the premier conference in the field of genetic and evolutionary computation. Topics include genetic algorithms, genetic programming, evolution strategies, evolutionary programming, memetic algorithms, hyper-heuristics, real-world applications, evolutionary machine learning, neuroevolution, evolvable hardware, artificial life, adaptive behavior, ant colony optimization, swarm intelligence, biological applications, evolutionary robotics, coevolution, artificial immune systems, and more. Full details on the 13 tracks are available at <https://gecco-2022.sigevo.org/Tracks>. GECCO 2022 is currently being planned as a hybrid event.

Each accepted paper needs to have at least one author registered. A registered author may present more than one paper at the conference without having to pay additional registration fees.

IMPORTANT DATES

- * Abstract submission (for full papers): **January 27, 2022**
- * Full paper submission: February 3, 2022
- * Poster-only submission: February 3, 2022
- * Notification of paper acceptance: March 25, 2022
- * GECCO 2022 Conference: July 9-13, 2022

More information is available at

<https://gecco-2022.sigevo.org/Call-for-Papers>

<https://gecco-2022.sigevo.org/Paper-Submission-Instructions>

All submissions should be ANONYMIZED and be made via <https://ssl.linklings.net/conferences/gecco/>

For the latest information on additional exciting events that are part of the conference follow us on Twitter (@GeccoConf) and check the conference website.

OLA'2022. International Conference on Optimization and Learning

Syracuse, Italy, 18-20 July, 2022

Website

OLA is a conference focusing on the future challenges of optimization and learning methods and their applications. The conference OLA'2022 will provide an opportunity to the international research community in optimization and learning to discuss recent research results and to develop new ideas and collaborations in a friendly and relaxed atmosphere.

OLA'2022 welcomes presentations that cover any aspects of optimization and learning research such as big optimization and learning, optimization for learning, learning for optimization, optimization and learning under uncertainty, deep learning, new high-impact applications, parameter tuning, 4th industrial revolution, computer vision, hybridization issues, optimization-simulation, meta-modeling, high-performance computing, parallel and distributed optimization and learning, surrogate modeling, multi-objective optimization ...

Submission papers: We will accept two different types of submissions:

- S1: Extended abstracts of work-in-progress and position papers of a maximum of 3 pages
- S2: Original research contributions of a maximum of 10 pages

Important dates

Paper submission deadline **Jan 28, 2022**

Notification of acceptance March 25, 2022

IFCS 2022: 17th conference of the International Federation of Classification Societies

Porto, Portugal, 19-23 July, 2022

Website

The 17th conference of the International Federation of Classification Societies will take place in Porto, Portugal, on 19-23 July 2022. IFCS 2022 is a joint organization of the Portuguese Association for Classification and Data Analysis, CLAD, and the Faculty of Economics of the University of Porto, FEP-UP. The conference will feature keynote speakers, invited and contributed sessions, and organized streams on specific topics. Preceding the conference itself, tutorials on up-to-date fields will be organized on 19 July.

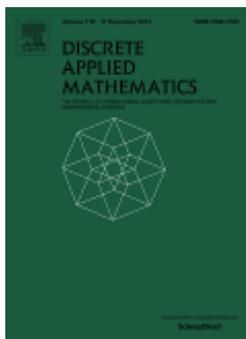
IMPORTANT DATES

Early registration deadline April 30th, 2022
Standard registration deadline June 15th, 2022
Late registration deadline after June 15th, 2022

Submission of full papers **January 15th, 2022**
Notification to authors March 1st, 2022
Submission of revised papers March 15th, 2022

Deadline Submission of Single Abstracts March 31st, 2022
Notification to Single Abstract Authors April 14th, 2022

Publications



Discrete Applied Mathematics

Special Issue: Call for Papers on CO emerging applications, models and algorithms

Guest Editors: **Antonio Alonso-Ayuso, Laureano F. Escudero, Silvano Martello**

Deadline for submission: **January 15, 2022**

[Website](#)

This special issue will be based on contributions presented at the 34th Conference of the European Chapter on Combinatorial Optimization (Madrid, June 10-11, 2021), but the invitation to submit is extended to all ECCO and CO members.

Main topics of interest are (but not restricted to):

- Approximation algorithms
- Exact algorithms
- Graphs and networks
- Heuristics
- Mathematical programming
- Metaheuristics
- Scheduling

All articles will be thoroughly refereed according to the high standards of Discrete Applied Mathematics.

Manuscript submission information:

The deadline for submission is **January 15, 2022**.

Learn more about the benefits of publishing in a special issue: <https://www.elsevier.com/authors/submit-your-paper/special-issues>



EURO Journal on Transportation and Logistics (EJTL)

Special Issue: Call for Papers on Data-Driven Optimization for Transport and Logistics Systems

Guest Editors: **Shadi Sharif Azadeh, Nursen Aydin**

Deadline for submission: **February 1, 2022**

Aim and Scope

Transport and logistics systems include a range of activities that deal with all sorts of decisions and operations from vehicle routing and scheduling to distribution of passengers and products in different regions. One of the main challenges for transport operators is to deal with large-scale and complex problems at minimal cost while satisfying the needs of service users.

Operators aim at solving these complex problems in a computationally efficient way. In recent years, with the increase of demand, this task has become more challenging. However, with increasingly diverse sets of operational data becoming available in transportation and logistics systems, incorporating advanced technologies is promising to pave the path for improving the already existing models. Like traffic management, data-driven optimization methods have found their way in the field of transport and logistics. Therefore, there is an increasing need to introduce computationally efficient algorithms that are motivated by available real-world data to solve these traditional problems.

This Special Issue aims to invite researchers who can offer novel data-driven efficient algorithms covering a range of methods (optimization, simulation, data-driven heuristics and data analytics) to tackle complex transport and logistics problems. We encourage the participation of researchers proposing new applications and methods to design efficient algorithms for real-world transportation and logistics problems.

Potential topics include but not limited to:

- Data-driven heuristic methods for transport and logistics
- Incorporating emerging technologies in large-scale optimization problems
- Real-time operations for large scale problems
- New transport and logistics applications and models for integrating optimization with data analytics

Important Dates

Submission deadline: **1 February 2022**

Notification of the first-round review (for guidance only): 1 June 2022

Revised submission due (for guidance only): 1 August 2022

Final notice of acceptance/reject (for guidance only): 1 November 2022

All articles submitted in this journal will be 100% (APC) waived until December 31, 2022 and APC will be covered by EURO.

Submitted papers should be original and should have not been previously published or currently considered for publication elsewhere. The manuscript should be prepared according to the Guide for Authors available at: <https://www.elsevier.com/journals/euro-journal-on-transportation-and-logistics/2192-4376/guide-for-authors>



Journal of Advanced Transportation

Special Issue: Call for Papers on Artificial Intelligence Approaches for Green Transportation Planning

Guest Editors: **Eduardo Lalla-Ruiz, Rosa G. González-Ramírez, Carlos Castro, Frederik Schulte**

Deadline for submission: **February 18, 2022**

The aim of this Special Issue is to highlight the current progress of artificial intelligence approaches for designing, developing, and promoting green and sustainable transportation systems through optimization, intelligent use of data, and advanced decision support. This Issue will aim to provide a platform of research exploring and dealing with transportation problems within the interplay between transportation planning, design, and operations. Submissions should incorporate advanced transport technologies and artificial intelligence techniques that support and enhance transport planning, promote green development, and mitigate negative environmental impacts.

Authors can submit their manuscripts through the Manuscript Tracking System at <https://review.hindawi.com/submit?specialIssue=081657>

Special Issue: Call for Papers on Operational Optimization of Networked Microgrids

Guest Editors: **Nanpeng Yu, Mikhail A. Bragin, Peng Li**

Deadline for submission: **February 25, 2022**

[Website](#)

The widespread and rapid proliferation of distributed energy resources such as wind and solar has a far-reaching impact on traditional power system paradigms and broad implications for the entire power grid. A microgrid can disconnect from the central grid and operate independently, thereby allowing the continued supply of power to customers when a storm or other disastrous event causes an outage of the main grid. Under normal operations, microgrids create energy for local customers, thereby avoiding the need to deliver electricity from power plants over long distances via traditional transmission lines, which typically results in huge losses. It is expected that the number of microgrids will grow to form a network of microgrids to avoid cascading failures inherent to the traditional grid and to improve the resilience and robustness of the entire system. Microgrids can thus provide a great way to enhance local reliability. The pressing concerns when considering microgrids are the following: due to the presence of the intermittent renewables, 1) the time resolution of the associated operation optimization problems can no longer be 1 hour as in traditional grids, but rather, much shorter time periods are advised to accommodate for the fluctuations in demand; 2) the number of stochastic levels to capture low-probability high-impact events is expected to grow significantly; and 3) nonlinear AC power flow is needed to obtain feasible schedules of the microgrids.

This Special Issue is focused on 1) identifying current and potential issues and advantages of networked microgrids; and 2) developing efficient solutions methodologies to efficiently manage and coordinate networked microgrids.

Submit your paper and select the Journal “Energies” and the Special Issue “Operational Optimization of Networked Microgrids” via: **MDPI submission system**. Please contact the special issue editor (spring.deng@mdpi.com) for any queries. Our papers will be published on a rolling basis and we will be pleased to receive your submission once you have finished it.



IIEE Transactions: Focused Issue on Scheduling and Logistics

Special Issue: Call for Papers on Modeling and Optimization of Supply Chain Resilience to Pandemics and Long-Term Crises

Guest Editors: **David W. Coit, Weiwei Chen, Dmitry Ivanov, Nezhil Altay**

Deadline for submission: **February 28, 2022**

[Website](#)

This Special Issue intends to showcase research addressing the novel decision-making settings entailed in supply chain resilience in the wake of the COVID-19 pandemic and characterized by crisis-like environment, epistemic and deep uncertainty, and adaptability as a “new normal” instead of stability and long-term planning. Here, the epistemic and deep uncertainty refers to the uncertainty that cannot be fully described by probabilistic modeling only due to incomplete awareness about anticipated events and their likelihood. Furthermore, preparedness, recovery and adaptation decisions should be planned and deployed in the presence of concurrent disruptions when bouncing back to the “old normal” is impossible or difficult in the short or medium-term. This setting is distinct from the traditional supply chain resilience research that has been developed to manage disruptions with an instantaneous impact (e.g., earthquake) followed by post-event recovery measures to return to the “old normal” (e.g., using backup sourcing and some extra inventory pre-positioning). Typically, supply chain resilience modelling is based on disruption probability estimations (i.e., random or hazard uncertainty: known-known and known-unknown). Modeling and optimization of supply chain resilience in epistemic uncertainty can be in conflict with traditional probabilistic modeling due to simultaneous existence of different uncertainty types and difficulties in uncertainty quantification. This requires application of different techniques such as possibilistic optimization, robust convex optimization, and chance-constrained optimization, and their synthesis with probabilistic modeling and artificial intelligence-based solution algorithms.

We are seeking papers that fit their problem settings and methodology into this novel context. We do not limit our Special Issue to the COVID-19 pandemic only and encourage submissions looking at other possible supply chain crises that can happen in future, e.g., long-term political crises, global financial crises, recessions, and climate change. Creating relevant knowledge for these future challenges now is imperative and of vital importance. There is a pressing need to develop modeling and optimization techniques that account for crisis settings and guide firms in building adaptable, reconfigurable, resilient, and viable supply chains.



Annals of Operations Research

Special Issue: Call for Papers on Big Data for Logistics Decarbonization

Guest Editors: **Gang Chen, Junliang He, Devika Kannan, Chun-Hsien Chen**

Deadline for submission: **February 28, 2022**

PDF

In order to promote decarbonization in the transportation logistics industry, this special issue focuses on big logistics data analytics, and invites submissions with contributions on theories, methods and applications related to green logistics operations from the perspectives of innovative technology applications, operational strategy design and new optimization methods. This special issue welcomes submissions of operation research type only, to ensure a good fit to AOR's readership.

Following the high standards of AOR, we are looking for high quality original manuscripts that have not been published and are not under review at other journals or peer-reviewed conferences. The special issue is open to papers based on all types of mainstream OR methods, including theoretical, empirical and field-based research.

Instructions for authors can be found at:

<http://www.springer.com/business/operations+research/journal/10479>



European Journal of Operational Research (EJOR)

Special Issue: Call for Papers on The future of transport: Coordination of public and private transport

Guest Editors: **Hillel Bar-Gera, Marco Bijvank, Florian Jaehn, Simone Neumann, Sandra Transchel**

Deadline for submission: **February 28, 2022**

Website

Background:

Almost all goods and people are frequently subject to transport and thus, transport has always been an important research field in many disciplines. Traditionally, transport is roughly classified into public transport and private transport. In the latter, the entities in motion make decisions on routing and traveling (e.g., speed), while in the former, they only decide whether or not to make use of a transport offer with a fixed route and fixed schedule. Due to digitalization and other technological innovations, new opportunities are created to coordinate private transport where the decision making is shifted from entities in motion to new technologies (e.g., by Intelligent Transport Systems or navigation systems). Similarly, public transport becomes more personalized (e.g., by demand-driven schedule synchronization). This has led to the blurring of the boundaries between public and private transport. Especially the availability of (real-time) data and autonomous driving (including unmanned aerial vehicles) will even further change transport planning in this context. This requires new approaches for the coordination of passengers and goods, their demands of transport, and the resources available for transport (especially the infrastructure and means of transport).

Scope:

This feature cluster welcomes high quality papers, which contribute to transport coordination aspects (i.e., transport planning and/or transport control) that are in the spectrum from public to private transport. This includes

but is not restricted to the following topics.

- Intelligent transport systems
- Demand responsive transport
- Shared transport solutions
- Self-organization of transport
- Real-Time planning
- Unmanned aerial vehicles
- Autonomous driving
- Platooning
- Crowd Shipping

From the methodological point of view, papers from Operations Research in its widest sense are welcome. Besides traditional methods from Operations Research, we also welcome papers with game-theoretic approaches, empirical work, Analytics, Behavioral Science and Industrial Engineering.

Submission:

Prospective authors are asked to follow the EJOR guide for authors. Please submit your paper at:

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

Please select "The future of transport" as the "Article Type" during the submission process.



IEEE Transactions on Fuzzy Systems

Special Issue: Call for Papers on Fuzzy Decision Systems for Sustainable Transport

Guest Editors: **Muhammet Deveci Rosa M. Rodríguez, Dragan Pamucar, Madjid Tavana, Harish Garg**

Deadline for submission: **February 28, 2022**

PDF

AIMS AND SCOPE

Sustainable transport has gained widespread recognition by countries, local governments, cities, and transport authorities around the world to bring about positive change for the environment, ensure wider accessibility, and reduce carbon emissions. Many countries and cities have been redesigning their transport systems to make them more sustainable. Incentives are being provided to ensure shift from petroleum-fueled vehicles to zero emission vehicles (e.g. electric vehicles, hydrogen vehicles, fuel cell, biogas, etc.) to limit the environmental harm caused by the widespread use of gasoline and diesel fuel. Recent technological developments around propulsion technologies as well as policy changes to reduce the need for travel or increase the share of sustainable modes has accelerated the shift towards sustainable transport. Global transport emissions increased by less than 0.5% in 2019 (compared to 1.9% annually since 2000), thanks to efficiency improvements, electrification and the use of more biofuels. However, transportation is still responsible for 24% of direct CO₂ emissions from fuel combustion. Road vehicles such as cars, trucks, buses, and two-and three-wheeled vehicles account for almost three-quarters of CO₂ emissions in transport. Emissions from them continue to increase, and more international policy and cooperation focus is needed in these areas. For example, electric vehicles are gaining more and more attention from the governments and general public across the world as electric vehicles make a significant contribution to the reduction of greenhouse gas emissions. Therefore, the shift towards sustainable transport requires effective decision mechanisms in these areas. The COVID-19 pandemic increased the uncertainty around the decisions influencing the shift towards sustainable transport due to financial, social, and technical uncertainties. In the literature, these uncertainties are often not taken into account sufficiently. Classical methods are insufficient in decision making involving the necessity of these decision mechanisms and multidimensionality. Fuzzy methods provide a suitable methodology for the solution of these sort of problems involving uncertainty.

Fuzzy decision systems are one of the most important advances in computational intelligence. The recent theoretical developments in the area of fuzzy decision systems provide novel perspectives for the key mechanisms of decision making and information processing that can handle uncertain, ambiguous, noisy and missed input information in sustainable transport problems and decisions.

The aim of this special issue is to publish recent advances in the development and use of fuzzy decision systems in sustainable transport issues. We are looking for original works on both theoretical and application papers.

TOPICS COVERED

This Special Issue is focused on the recent advances in the use of fuzzy decision systems for the sustainable transport issues.

SUBMISSION GUIDELINES

All authors should read 'Information for Authors' before submitting a manuscript at <https://cis.ieee.org/publications/t-fuzzy-systems/tfs-information-for-authors>

Submissions should be through the IEEE TFS journal website <http://mc.manuscriptcentral.com/tfs-ieee>.

Submissions must be in the CORRECT FORMAT <https://journals.ieeeauthorcenter.ieee.org/create-your-ieee-journal-article/authoring-tools-and-templates/ieee-article-templates/templates-for-transactions/>

It is essential that your manuscript is identified as a Special Issue contribution:

- Ensure you choose 'Special Issue' when submitting.
- A cover letter must be included which includes the title 'Fuzzy Decision Systems for Sustainable Transport'.

Upcoming Conferences

Click on the table below to download a pdf of upcoming events

2024-31st December 2021	ICQ 2024 8th International Conference on Intelligent Computing & Optimization	ONLINE(Thailand)	30th September 2021
10th January-15th February 2022	Winter School of Operational Research in Public Health Emergencies (WSOPEH21)	ONLINE	1st December 2021
17th-21st January 2022	Winter school on Data Science, Optimization and Operations Research	Zürich, Switzerland	
2nd-3rd February 2022	International Conference On Science, Engineering, Management and Information Technology (SEMIT 2022)	Ankara, Turkey	4th January 2022
21st-25th February 2022	5th AI/DS/DS Workshop	Rome, Italy	29th December 2021
1st-4th March 2022	International Network Optimization Conference 2022 (INOC)	Aachen, Germany	26th November 2021
7th-9th March 2022	3rd Chinese conference on Operations Research, OPTIMA	Madrid, Chile	4th January 2022
14th-17th March 2022	ISCOPT2022 International Conference on Optimization	Cottbus, Germany	13th January 2022
4th-5th April 2022	SIAM Conference on Discrete Mathematics	Coventry, UK	14th January 2022
4th-8th April 2022	Copenhagen School of Stochastic Programming	Copenhagen, Denmark	4th March 2022
11th-13th April 2022	IEEE AutoNet International Conference 2022 on Applied Combinatorial Optimization	ONLINE (Villa del Mar, Chile)	22nd September 2021
20th-22nd April 2022	KeyStar 2022	Seville, Spain	24th November 2021
21st-25th April 2022	COMO 2022 - 32nd Annual Conference	Oxford, USA	13th December 2021
4th-10th May 2022	Schedas, the 14th International Workshop on Freight Transportation and Logistics	Tampere, Norway	19th November 2021
16th-18th May 2022	7th International Scientific Industrial Conference - MANUFACTURING 2022	Warsaw, Poland	29th December 2021
16th-20th May 2022	ICQ 2024 International Symposium on Combinatorial Optimization	ONLINE	15th February 2022
16th-20th May 2022	Stamatis School on Stochastic programming	Crete, Italy	
21st-25th May 2022	PhD in Conference on Decision Support System Technology, ICDSST 2022	Macedonia, Greece	31st January 2022
23rd-26th May 2022	IMP Mixed Integer Programming Workshop 2022	Rutgers University, New Jersey, USA	
30th May-2nd June 2022	The 24th IEEE Workshop on Parallel & Distributed Combinatorics and Optimization (PDCO 2022)	Lyon, France	7th January 2022
16th May-1st June 2022	2nd Int Combinatorics for Applications (ICCA) Conference	ONLINE (Ankara, Turkey)	1st March 2022
7th-9th June 2022	INCOA 2022, 33rd International Workshop on Combinatorial Algorithms	Trier, Germany	4th January 2022
7th-10th June 2022	ISOP 2022 - 39th Spanish Conference on Statistics and OR	Granada, Spain	31st January 2022
9th-11th June 2022	ISCOA 2022 - 10th 2022 Joint Conference	Saint Petersburg, Russia	21st March 2022
11th-24th June 2022	INRO Science Institute on Logistics Science	Edinburgh, UK	19th January 2022
11th-15th June 2022	InfLog 2022, 8th meeting of the EURO Working Group on Vehicle Routing and Logistics Optimization (InfLog)	Hamburg, Germany	15th January 2022
17th-22nd June 2022	EURO School on Data-Driven Decision Making and Optimization	Seville, Spain	15th February 2022
16th-17th June 2022	Stochastic Optimization Days 2022	Stockholm, Sweden	31st March 2022
19th-20th June 2022	INFORMS - 50th Annual Meeting on Transportation Analysis conference	Maui, Hawaii	15th January 2022
20th-23rd June 2022	ICQIN 2022 - 19th International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research	Los Angeles, US	29th November 2021
22nd-26th June 2022	10th IFAC Triennial Conference MFA	Nantes, France	25th December 2021
27th-29th June 2022	Conference on Integer Programming and Combinatorial Optimization (IPCO 2022)	Eindhoven, The Netherlands	12th November 2021
29th June-1st July 2022	EURO 2022 - 32nd European Conference on Operational Research	Venice, Italy	3rd March 2022
3rd-4th July 2022	EURO 2022 - 32nd European Conference on Operational Research	Vienna, Austria	4th March 2022
6th-13th July 2022	Genetic and Evolutionary Computation Conference (GECCO 2022)	Boston, USA	27th January 2022
10th-15th July 2022	22nd International Symposium on Forecasting	Oxford, UK	25th March 2022
11th-15th July 2022	8th Mediterranean International Conference	Reading, UK	
11th-14th July 2022	INS 2022 - 14th International Operational Conference	Ortigia Syracuse, Italy	30th March 2022
13th-15th July 2022	15th European Conference on Artificial Intelligence and Dynamic Games	Vienna, Austria	29th March 2022
18th-20th July 2022	ISA 2022 International Conference on Optimization and Learning	Syracuse, Italy	28th January 2022
18th-20th July 2021 (IFAC)	IFAC PhD School on MCDM/CDM	Ankara, Turkey	
19th-23rd July 2022	ICCS 2022 - 17th conference of the International Federation of Classification Societies	Porto, Portugal	19th January 2022
21st-26th July 2022	ICOP 2022 (ICOP 2022)	Pennsylvania, USA	15th March 2022
24th-27th July 2022	7th Symposium on Experimental Algorithms (SEA 2022)	Hamburg, Germany	23rd January 2022
31st July-8th August 2022	Twenty-Eighth Conference on Physics and Practice of Constraint Programming (CP 2022)	Haifa, Israel	19th February 2022

Contact Us

Do you have an item to be included in the next newsletter? Just contact us at office@euro-online.org. We reserve the right to edit submissions to suit the presentation and available space.



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