

EURO Newsletter # 52
July 12, 2017

In This Issue

Special Announcements

Joint EURO/ALIO International Conference 2018 on Applied Combinatorial Optimization. Bologna, Italy, 25-27 June, 2018

The 2018 International Conference of the African Federation of Operational Research Societies (AFROS 2018). Tunis, Tunisia, 2-4 July, 2018

IFORS Developing Countries OR Resources Website

Working Groups

EURO working group on Agriculture and Forest Management. IV Workshop on Optimization Under Uncertainty in Sustainable Agriculture and Agrifood Industry. Lleida, Spain, 6-8 September, 2017

EWG EPA, EURO working group on Efficiency and Productivity Analysis. BLGDRC Annual Conference 2017. Colchester, UK, 14-15 September, 2017

EWG ENOG, EURO working group on Network Optimization. 7th edition of the Winter School on Network Optimization. Estoril, Portugal, 15-19 January, 2018

EWG EUROPT, EURO working group on Continuous Optimization WGSCO2018 (Workshop on Graph Spectra, Combinatorics and Optimization). Aveiro, Portugal, 25-27 January, 2018

EWG PMS, EURO working group on Project Management and Scheduling. 16th International Conference on Project Management and Scheduling. Rome, Italy, 17-20 April, 2018

EWG SSC, EURO working group on Sustainable Supply Chains. PhD Summer School and Bi-Annual Conference Rome, Italy, 17-20 April, 2018

Conferences and Meetings

UK Operational Research Society SW18 (Simulation Workshop 2018). Stratford-upon-Avon, UK, 19-21 March, 2018

Kolkom 2017 (Colloquium on Combinatorics). Paderborn, Germany, 24-25 November, 2017

8th International Conference on Industrial Engineering and Operations Management (IEOM). Bandung, Indonesia, 6-8 March, 2018

20th International Conference on Enterprise Information Systems (ICEIS). Madeira, Portugal, 21-24 March, 2018

BIOMA'2018 (8th International Conference on Bioinspired Optimization Methods and their Applications). Paris, France, 16-18 May, 2018

Schools and Courses

CP & OR Summer School. Porquerolles, France, 18-22 September, 2017

Publications

EURO Journal on Transportation and Logistics (EJTL). Special Issue: Call for Papers on Models and Methods for the Supply Chain and Logistics Management

EURO Journal on Computational Optimization (EJCO). Special Issue: Call for Papers on Constraint Programming Approaches to Combinatorial Optimization

Journal of Heuristics. Special Issue: Call for Papers on Intensification, Diversification and Learning in Metaheuristic Optimization

Transportation Science. Special Issue: Call for Papers on ROADEF/EURO Challenge 2016

International Journal of Multicriteria Decision Making. Special Issue: Call for Papers on New Methodological and Practical Developments of the PROMETHEE Methods

Operations Research for Health Care. Special Issue: Call for Papers on Multi-Criteria Decision Making in Health Care

International Series in Operations Research & Management Science. Handbook of Operations Research and Management Science in Higher Education

International Journal of Operations Research and Information Systems (IJORIS). Special Issue: Call for Papers on Current Research Trends in Operational Research for Better Living

Journal of The Operational Research Society. Special Issue: Call for Papers on Healthcare Behavioural OR

Upcoming Conferences

Special Announcements

Joint EURO/ALIO International Conference 2018 on Applied Combinatorial Optimization



Bologna, Italy, 25-27 June, 2018

ALIO

<https://events.unibo.it/euroalio2018>

AIMS AND OBJECTIVES

The Joint EURO/ALIO International Conference 2018 on Applied Combinatorial Optimization is an event jointly promoted by the Association of European Operational Research Societies (EURO) and the Association of Latin-Iberoamerican Operational Research Societies (ALIO), both within the International Federation of Operational Research Societies (IFORS).

The main purpose of the event is to bring together European and Latin American researchers and to stimulate activities and discussions about methods and applications in the field of combinatorial optimization. Researchers from other regions worldwide are also welcome. This conference continues the series of the ALIO/ EURO Workshops on Applied Combinatorial Optimization that were held in:

- Rio de Janeiro, Brazil (1989)
- Valparaiso, Chile (1996)
- Erice, Italy (1999)
- Pucon, Chile (2002)
- Paris, France (2005)
- Buenos Aires, Argentina (2008)
- Porto, Portugal (2011)
- Montevideo, Uruguay (2014)

Important Deadlines

Submission of Extended Abstracts **08/01/2018**

Submission of Short Abstracts 19/02/2018

Early Registration 16/03/2018

CONFERENCE TOPICS

Contributions dealing with any aspect of Applied Combinatorial Optimization are welcome. This includes theoretical achievements, algorithm development and real-world implementations. Main topics of this conference are, among others:

- *Applications of Combinatorial Optimization
- *Approximation algorithms
- *Branch-and-cut-and-price algorithms
- *Computational complexity
- *Emerging applications of OR
- *Energy planning
- *Graph theory
- *Healthcare applications
- *Heuristics and metaheuristics
- *Hybrid methods
- *Integer programming
- *Natural resource management
- *Network design and analysis
- *Production planning
- *Telecommunications
- *Transportation and logistics

VENUE

The conference will be held at the School of Engineering and Architecture of the Alma Mater Studiorum - Università di Bologna, Viale del Risorgimento, 2 Bologna. The School is within walking distance from the city center, hotels, bars and restaurants.

The city of Bologna offers a lively cultural environment, and is well connected by high-speed trains to Florence (35min), Venice (1h 25min), Milan (1h), Rome (2h), Turin (2h 15min), Naples (3h 30min).

A short video on the city of Bologna:

<https://www.youtube.com/watch?v=ObBreSoNzZY>

The 2018 International Conference of the African Federation of Operational Research Societies (AFROS 2018)



Tunis, Tunisia, 2-4 July, 2018

<http://afros.tdasociety.org/>



We are honoured to invite you to the inaugural conference of the African Federation of Operational Research Societies (AFROS). AFROS aims to promote Operations Research in Africa.

The deadline for abstract submission is **March 30, 2018**. You can submit your abstract at <https://easychair.org/conferences/?conf=afros2018>

Selected abstracts from AFROS 2018 conference will be considered as potential full-paper publications in International peer reviewed journals.

For more information, please don't hesitate to contact the conference program chair: hatem.masri@gmail.com

We are looking forward to welcoming you in Tunisia in 2018!

Fouad Ben Abdelaziz and Hatem Masri

Deadlines

Submission of abstracts: **March 30, 2018**

Acceptance notice: April 30, 2018

Early registration: May 20, 2018

Preliminary Program: June 15, 2018



IFORS Developing Countries OR Resources Website



Welcome to the IFORS Developing Countries OR Resources Website http://ifors.org/developing_countries/index.php?title=Main_Page

The aim of the Developing Countries On-Line Resources page is to offer the OR worker all publicly-available materials on the topic of Operations Research 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.

The IFORS activity links with that of the EURO Working Group on OR for Development. This has been a classical connection reflected both in and around all our last EURO and IFORS conferences. And ("free", not prevented by copyright, etc.) submissions to IFORS DC online resources by EURO friends are very much welcome, especially



Please visit and contribute to the
IFORS Developing Countries
Online Resources

Working Groups

EURO working group on Agriculture and Forest Management



IV Workshop on Optimization Under Uncertainty in Sustainable Agriculture and Agrifood Industry

Lleida , Spain, 6-8 September, 2017

<http://orafm.udl.cat/workshop2017/>

The EURO working group on Agriculture and Forest Management invites you to participate in the Workshop on Optimization Under Uncertainty in Agriculture and Agrifood Industry, which will be hosted at the Universitat de Lleida, Lleida (Spain).

Submissions may include topics related to Agriculture and Agrifood industry, but also Forestry, Food Industry, Fisheries and Natural Resources in general.

Important Dates:

Submission of abstracts: **07/08/2017**

Acceptance of abstracts: 12/08/2017

Early registration Deadline: 12/08/2017

EWG EPA, EURO working group on Efficiency and Productivity Analysis



BLGDRC Annual Conference 2017

Colchester, UK, 14-15 September, 2017

<http://www.blqdataresearch.org/annualconference2017/>

We are currently calling for researchers to submit papers to be discussed at our Conference.

We welcome submissions of papers in the following areas:

- *Entrepreneurship
- *SME finance
- *Skills gaps
- *Applications of spatial data and technologies in local government
- *Techniques for the management and processing of large spatial datasets

If you would like to showcase your research at our conference please complete the online form: <http://www.blgdataresearch.org/annualconference2017/> or if you would like any further details about the event please contact us at blgdataresearch@essex.ac.uk

EWG ENOG, EURO working group on Network Optimization



7th edition of the Winter School on Network Optimization

Estoril, Portugal, 15-19 January, 2018

<http://netopt2018.campus.ciencias.ulisboa.pt>

The 7th edition of the Winter School on Network Optimization will take place at Hotel Londres, Estoril, from the 15th to the 19th of January 2018. Its main objective is to provide an opportunity for PhD students to get together and attend high level courses in the field of Network Optimization. Non-PhD students are welcome to attend the school, but the number of participants is limited and priority will be given to PhD students. In this edition of the school, the lecturers and subjects to be addressed are:

Adam Ouorou (Orange Labs) - Robust optimization in telecommunications;

Martine Labbé (Univ. Libre de Bruxelles) - Bilevel programming: Stackelberg games and Pricing Problems;

Ivana Ljubic (ESSEC, Paris) - Recent Developments on Exact Solvers for the (Prize-Collecting) Steiner Tree Problem;

Silvano Martello (Univ. of Bologna) - Packing problems in one and more dimensions;

Juan José Salazar-Gonzalez (Univ. de La Laguna) - Models and Algorithms for Vehicle Routing Problems with Pickups and Deliveries.

Since the first edition in 2009, the school has been part of the activities of the CIO, now CMAFCIO (Centro de Matemática, Aplicações Fundamentais e Investigação Operacional) University of Lisbon as well as of the [ENOG \(European Network Optimization Group\)](#). The event is also endorsed by the EURO (the Association of European Societies) and APDIO (the Portuguese OR society).

Potential participants are invited to submit their CVs to the address NetOpt2018@fc.ul.pt

no later than the **31st October**.

EWG EUROPT, EURO working group on Continuous Optimization



WGSCO2018 (Workshop on Graph Spectra, Combinatorics and Optimization)

Aveiro, Portugal, 25-27 January, 2018

<http://wqsco2018.web.ua.pt>

Aim and Scope

The aim of WGSCO2018 is to bring together academic specialists and promote broad exchange of information and new developments in Spectral Graph Theory, Combinatorics and Optimization, and other related areas. During the Workshop we will commemorate the **65th birthday of Domingos M. Cardoso**, who is a prominent Professor of the University of Aveiro.

Format of the Workshop

The scientific program of the Workshop consists of Plenary talks by the Invited Speakers and 20-minute contributed talks. We kindly invite you to contribute to the scientific program of the Workshop by submitting an abstract or a Special Session and participating in the Workshop. All abstracts will be refereed by the members of the International Scientific Committee. The abstracts will be published electronically in the Book of Abstracts.

Invited Speakers

Jerzy Szymański, University of Adam Mickiewicz, Poznan, Poland

Jorge Orestes, New University of Lisbon, Portugal

Nair Abreu, Federal University of Rio de Janeiro, Brasil

Peter Rowlinson, University of Stirling, Scotland, UK

Richard Brualdi, University of Wisconsin, Madison, Wisconsin, USA

Slobodan Simić, Serbian Academy of Sciences and Arts, Serbia

Tamás Terlaky, Lehigh University, Bethlehem, Pennsylvania, USA

Vadim Lozin, University of Warwick, UK

Willem Haemers, Tilburg University, The Netherlands

Important Dates

Abstract Submission and Special Session Proposals: **September 30, 2017**

Notification of Acceptance: October 15, 2017

Early-Bird Registration: October 30, 2017

Later Registration: January 5, 2018

EWG PMS, EURO working group on Project Management and Scheduling



16th International Conference on Project Management and Scheduling

Rome, Italy, 17-20 April, 2018

<http://www.pms2018.ing.uniroma2.it/>

PMS is an international conference series initialized by the EURO PMS Working Group, devoted to project management and

scheduling (<http://www.cs.put.poznan.pl/pms/>). The workshop is held every two years in different locations around Europe. This conference brings together researchers and practitioners from different disciplines of Computer Science, Operational Research, Optimization Engineering, Mathematical Programming and Industrial Engineering. The conference covers theoretical results and algorithmic developments in the fields of Project Management and Scheduling, including project management and scheduling practice and applications to real-life situations.

PMS 2018 (16th International Workshop on Project Management and Scheduling) is organized by the Department of Enterprise Engineering of the University of Rome "Tor Vergata" (Rome, Italy). The workshop will be held in Rome - Italy - on April, 17-20, 2018 at Residenza di Ripetta, strategically located in the heart of the City - a few steps away from Piazza del Popolo and Piazza di Spagna.

The workshop will consist of technical and selected presentations as well as invited presentations made by esteemed researchers working on Project Management and Scheduling.

Plenary speakers confirmed are:

***Jacques Carlier** - Université de Technologie de Compiègne

***Rolf Möhring** - Technische Universität Berlin

***Erwin Pesch** - Universität Siegen

All researchers, academics, phd students and practitioners working on the conference themes are invited to participate to PMS 2018 submitting an extended abstract (length 4 single-spaced A4 pages). Templates and guidelines to authors are available on the PMS 2018 website. These 4-page submissions will be reviewed according to the standard reviewing process of international conferences. A selection of submissions will be presented during the workshop.

After the workshop, the authors will have the opportunity to submit full papers to a special issue of Annals of Operations Research (see the PMS 2018 website).

Important deadlines:

Paper submission: **31st October 2017**

Notification of acceptance: 19th January 2018

Final paper presentation: 12th February 2018

Early registration: 15th February 2018

EWG SSC, EURO working group on Sustainable Supply Chains



PhD Summer School and Bi-Annual Conference

Rome, Italy, 17-20 April, 2018

The EWG SSC EURO working group on Sustainable Supply Chains will organize a

PhD summerschool (July 1-7 2018) in Wageningen, The Netherlands

and the

EWG bi-annual conference , July 6-7, 2018 in Amsterdam, The Netherlands

Further information and the website will appear soon.

Conferences and Meetings

UK Operational Research Society



SW18 (Simulation Workshop 2018)

Stratford-upon-Avon, UK, 19-21 March, 2018

www.theorsociety.com/SW18

19th - 21st March 2018 sees the return of the OR Society's biennial simulation workshop (SW18). The conference always boasts an excellent mix of delegates from the fields of simulation practice and research. The conference covers application and theoretical developments across all simulation methods, for example agent based simulation, system dynamics, discrete-event simulation and monte-carlo simulation. We have updated and refreshed the conference this year keeping the best of the original format and adding some exciting new elements.

Practitioner and researcher poster competition

If you don't feel your work warrants a full oral presentation then the practitioner and researcher poster option is for you. Poster delegates produce an A0 or A1 poster showcasing their applied or theoretical simulation work and are asked to give a 2 minute 'elevator pitch' presentation to argue why their poster deserves the title of SW18's best poster. **We emphasise this competition is open to all SW18 delegates!**

Key Dates

29 Sep 2017 - Submission deadline for papers

08 Jan 2018 - Notification of outcomes of reviews of conference papers

08 Jan 2018 - Contributors will be notified whether or not their paper is accepted

08 Jan 2018 - Deadline for submission of Poster titles and abstracts (150 words)

14 Jan 2018 - Deadline for early bird reduced registration

15 Jan 2018 - Standard registration rates apply

Kolkom 2017 (Colloquium on Combinatorics)

Paderborn, Germany, 24-25 November, 2017

<http://www.kolkom.de/>

The Colloquium on Combinatorics is a forum that brings together young researchers and well established scientists. The colloquium will cover all parts of Combinatorics and Discrete Mathematics in a broad sense, including combinatorial aspects in Algebra, Geometry, Optimization and Computer Science.

Important Dates

Registration: October 31, 2017

Abstract Submission: **October 31, 2017**

8th International Conference on Industrial Engineering and Operations Management (IEOM)

Bandung, Indonesia, 6-8 March, 2018

www.ieomsociety.org/ieom2018/

The IEOM 2018 Bandung Conference focuses on industrial engineering and operations management and related topics. You can find topic areas and details from the conference website. You can present with full paper or abstract. Full paper is optional. All full papers are subject to double peer review. IEOM format must be followed. Accepted papers will be indexed in Scopus subject to meeting IEOM Quality Standards.

Submission link: www.xcdsystem.com/IEOM/abstract/index.cfm?ID=IK6LBIL.

The IEOM Society is expecting another exciting event in Bandung, Indonesia. Some of the events and activities that are planned include: outstanding keynote speakers, global engineering education track, industry solutions track, women in industry and academia track, undergraduate student paper competition sponsored by Siemens, graduate student paper competition sponsored by Eaton, senior design project competition, undergraduate research competitions, doctoral dissertation and master thesis competition, Simulation and PLM competition, high school and middle school STEM project competition, panel sessions, activities of IEOM student chapters and professional chapters, recognition and awards, exhibition, poster, student chapter activities and tours.

20th International Conference on Enterprise Information Systems (ICEIS)

Madeira, Portugal, 21-24 March, 2018

<http://www.iceis.org/>

The purpose of the 20th International Conference on Enterprise Information Systems (ICEIS) is to bring together researchers, engineers and practitioners interested in the advances and business applications of information systems. Six simultaneous tracks will be held, covering different aspects of Enterprise Information Systems Applications, including Enterprise Database Technology, Systems Integration, Artificial Intelligence, Decision Support Systems, Information Systems Analysis and Specification, Internet Computing, Electronic Commerce, Human Factors and Enterprise Architecture. ICEIS focuses on real world applications; therefore authors should highlight the benefits of Information Technology for industry and services. Ideas on how to solve business problems, using IT, will arise from the conference. Papers describing advanced prototypes, systems, tools and techniques and general survey papers indicating future directions are also encouraged. Papers describing original work are invited in any of the areas listed below. Accepted papers, presented at the conference by one of the authors, will be published in the Proceedings of ICEIS. Acceptance will be based on quality, relevance and originality. Both full research reports and work-in-progress reports are welcome. There will be both oral and poster sessions. Workshops, providing a more interactive and focused platform for presenting and discussing new and emerging ideas or special sessions, dedicated to case-studies and commercial presentation are also envisaged: companies interested in presenting their products/methodologies or researchers interested in holding a tutorial are invited to contact the conference secretariat.

UPCOMING DEADLINES

Regular Paper Submission: **October 18, 2017**

Regular Paper Authors Notification: December 19, 2017

Regular Paper Camera Ready and Registration: January 4, 2018

BIOMA'2018 (8th International Conference on Bioinspired Optimization Methods and their Applications)

Paris, France, 16-18 May, 2018

<http://bioma2018.sciencesconf.org/>

BIOMA is one of the main events focusing on the progress of the area of bioinspired optimization methods and their applications. As in the seven previous editions, BIOMA 2018 will provide an opportunity to the international research community in optimization to discuss recent research results, to develop new ideas and collaborations in a friendly and relaxed atmosphere.

BIOMA 2018 welcomes papers that cover any aspects of bioinspired optimization research such as new algorithmic developments, high-impact applications, new research challenges, theoretical developments, implementation issues, and experimental studies. BIOMA 2018 strives for a high-quality program that will be completed by a number of invited talks and special sessions.

Important dates

Submission deadline **Dec 1, 2017**

Notification of acceptance Feb 15, 2018

Final papers Mar 1, 2018

Paper submission: We will accept submissions in two different formats.

S1: Extended abstracts of a maximum of 3 pages

S2: Long papers of a maximum of 12 pages

Proposals of invited sessions

Deadline Nov 1, 2017. Contact el-ghazali.talbi@univ-lille1.fr

Schools and Courses

CP & OR Summer School

Porquerolles, France, 18-22 September, 2017

<http://school.a4cp.org/summer2017/>

Joint ACP and GdR RO Summer School 2017

This summer school is coorganized by the ACP and the French constraint programming working group for "Constraints and Operational Research" within the CNRS research group "Operational Research".

The topic of the school is **Hybridization of Constraint Programming and Operational Research: from practical opportunities to concrete implementation of solutions.**

During this week, participants will be raised awareness on several classical and novel challenges at the frontier between Constraint Programming and Operational Research. This year a focus will be done on the tools that allow to provide concrete implementation of solutions. Particularly, the participants will be challenged on a given problem both in terms of modeling and implementation of a solution in their own standalone tool.

The school is intended for PhD students, masters students and industrial practitioners, who want to get a good understanding of capabilities and current research directions in the area of Constraint Programming, particularly at the frontier with Operational Research. Prior knowledge of Constraint Programming is not required, but general problem solving skills, good programming and mathematical skills will be helpful.

Early registration deadline **31 July 2017**.

Publications

EURO Journal on Transportation and Logistics (EJTL)



Special Issue: Call for Papers on Models and Methods for the Supply Chain and Logistics Management

Guest Editors:

Chefi Triki and Teodor Gabriel Crainic

Deadline for submission: **July 25, 2017**

<https://www.euro-online.org/web/pages/1486/special-issues?id=16>

The function of supply chain management is to design and manage the processes, assets, and flows of material and information required to satisfy customers' demands. Globalization of economy and electronic commerce has heightened the strategic importance of supply chain management and created new opportunities for using supply chain strategy and planning as a competitive tool. E-logistics has not only created new distribution channels for consumers but also revolutionized the industrial marketplace by facilitating inter-firm communication and by creating efficient markets through trading communities. Moreover combination of enterprise information infrastructure and the Internet has paved the way for a variety of supply chain and logistics optimization technologies.

This special issue deals with the strategic, planning, and operational roles of the supply chains and logistics. It has the aim of being a valuable collection of original contributions proposing novel mathematical models and solution methods to solve challenging logistics problems. Works devoted to solve real-life logistics problems are particularly welcome.

Scholars participating in the ICAMIS OMAN 2016 (International Conference on Applied Mechanics and Industrial Systems, Muscat-Oman, 6-8 December 2016) are invited to submit their high quality unpublished papers to this special issue. However, any other researcher interested in the topics of this issue can submit his/her paper as well.

Topics covered include:

- *Supply chain design and control
- *Transportation, vehicle routing and fleet management
- *Manufacturing & warehousing operations
- *Sustainable development
- *Decision Making in Industry and Services
- *Maritime and Port logistics

- *Modelling & simulation of logistics systems
- *Planning and scheduling
- *IT for Supply Chain Management and logistics
- *Reverse and green logistics
- *Design and management of logistic infrastructure and networks
- *Heuristic and meta heuristic implementation in logistic-related models
- *Smart city logistics
- *Strategies and operations of logistic service providers

Submitted papers should not have been previously published nor being currently under consideration for publication elsewhere. All papers are refereed through a peer review process. All papers must be submitted online.

In order to submit a paper for a Special Issue,

1. Log on the [editorial manager](#) using the Author Login.
2. Select Submit New Manuscript in the main menu.
3. In the drop down list associated with Choose Article Type, select the desired special issue. The entries corresponding to the special issues start with SI.

EURO Journal on Computational Optimization (EJCO)



Special Issue: Call for Papers on Constraint Programming Approaches to Combinatorial Optimization

Guest Editors:

Willem-Jan van Hoeve and **Louis-Martin Rousseau**

Deadline for submission: **August 15, 2017**

<https://www.euro-online.org/web/pages/1599/special-issue-constraint-programming-approaches-to-combinatorial-optimization>

Combinatorial optimization is at the heart of many real-world applications, while at the same time it is a vibrant and intellectually challenging field of research. Some well-known application areas of combinatorial optimization are vehicle routing, employee scheduling, strategic planning, (financial) asset optimization, production scheduling, timetabling, to name just a few. In this world with evermore available digital information, the developments in the field of combinatorial optimization are increasingly more important to our society.

The different contexts in which combinatorial problems arise have led to a variety of solution techniques. For example, in Operations Research (OR), the traditional application areas include logistics, supply chain management, and resource allocation problems, while the solution methodology is most often based on integer linear programming, or more generally mathematical

programming. On the other hand, the field of Artificial Intelligence (AI) which has historically studied applications such as motion planning, pattern recognition, and learning, is evolving rapidly in the field of Machine Learning (ML). Most solution methods in AI for combinatorial optimization utilize specialized search algorithms and constraint reasoning techniques.

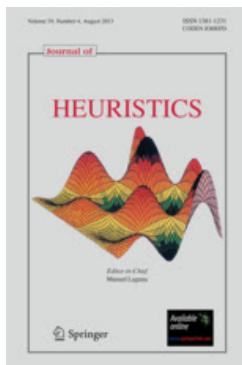
Based on a systematic search procedure and constraint propagation, Constraint Programming (CP) has been the main paradigm for the integration of techniques from OR and AI in the last decade. It has fostered the development of new methodologies such as logicbased Benders decomposition and CP-based column generation while providing a framework for state-of-art algorithms for solving both challenging new applications, for example determining the optimal power flow in electric grids, and fundamental combinatorial optimization problems such as maxclique or graph coloring.

We invite papers that combine ideas from algorithmic combinatorics, mathematical programming, and artificial intelligence in the context of constraint programming for solving combinatorial optimization problems.

Papers, in the EJCO format, should be submitted online at <https://www.editorialmanager.com/ejco/>

Please select "**S.I. : Constraint Programming Approaches to Combinatorial Optimization 2017**" when prompted.

Journal of Heuristics



Special Issue: Call for Papers on Intensification, Diversification and Learning in Metaheuristic Optimization

Guest Editors:

Fred Glover, and Michele Samorani

Deadline for submission: **August 15, 2017**

Intensification, Diversification and Learning (IDL), separately or together, are fundamental components of methods for metaheuristic optimization. Although each may be studied independently of the others, in the more effective metaheuristic algorithms they are often interdependent, as legs of what may be called an IDL triangle, each leg intimately relying on the presence of the other two, so that a focus on any subset of the three is implicitly understood to operate in relationship to the missing component(s).

While numerous proposals have been made for methods in all three of these classifications, there remains a significant unexplored area, both conceptually and empirically, for integrating various elements of the three-sided IDL relationship. In some cases, general formulations await to be made complete by filling in specific details, and in other cases details await to be tested to determine their impact. New ideas have not always been thoroughly compared with previous ones, to identify their relative contribution. And within the space of possibility spanned by the legs of the IDL triangle, it is reasonable to speculate that there remains a vast region of formulations not yet conceived.

The power of modern metaheuristic algorithms to generate better solutions to complex optimization problems that could be found in the past motivates a closer look at the link between algorithmic effectiveness and the combined effects of intensification, diversification and learning.

The goal of this special issue is to provide a forum advancing the state-of-the-art of metaheuristic design based on the IDL interrelationship. Of particular interest are papers in the following areas, supported by theoretical or empirical analysis:

*New strategies for intensification, diversification and learning.

*New frameworks for integrating these IDL components

- *IDL-based methods for obtaining improved solutions to important special problem classes.
- *IDL-based methods to solve large problems more effectively.
- *Comparative empirical studies of different IDL-based metaheuristics for solving important optimization problems.
- *New theoretical results supporting the solution of special or general problem structures via an IDL focus.
- *Modeling innovations enabling IDL-based methods to be applied more effectively.
- *Discussion of important real-world applications.

Timeline for Special Issue:

Submission of papers: August 15, 2017 (papers submitted earlier may be reviewed more quickly)

Notification of first review: October 31, 2017

Revised (final) manuscripts due: March 1, 2018

NOTE: Authors should submit their manuscripts to the Journal of Heuristics Editorial Manager <http://heur.edmgr.com>. Enter system as an Author, click on Submit New Manuscript and then use the pull-down menu in the box for Choose Article Type to select **S.I. : Intensification, Diversification and Learning**.

Transportation Science



Special Issue: Call for Papers on ROADEF/EURO Challenge 2016

Guest Editors:

Roberto Wolfler Calvo, Jean Andre, Eric Bourreau

Deadline for submission: **September 1, 2017**

Inventory routing is key issue in logistics. The ROADEF/EURO Challenge 2016 (<http://challenge.roadef.org/2016/en/index.php>) was devoted to this topic and focused on an inventory routing problem proposed by Air Liquide. The inventory routing problem proposed by Air Liquide arises in their healthcare business (<https://www.airliquide.com/healthcare>), which delivers large (bulk) volumes of liquid oxygen to 7500 hospitals worldwide. Their inventory routing problem incorporates both vendor managed inventory (VMI) customers (the majority) and call-in customers (still a significant number) who are served on demand.

We invite papers for a special section of/Transportation Science/devoted to this variant of the Inventory Routing Problem. All papers submitted have to discuss approaches that can solve the ROADEF instances. All papers will go through the standard review process of/Transportation Science/. Up to five accepted papers will be published in the special section; others may appear as regular journal articles.

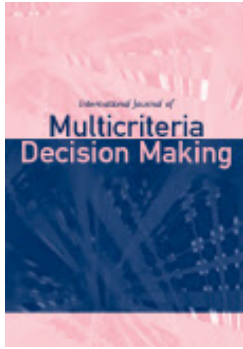
Submission

Please submit your manuscript online via ScholarOne Manuscripts at <http://mc.manuscriptcentral.com/transci>.

When choosing Manuscript Type in Step 1 of the submission process, enter "**Special Section - ROADEF/EURO**", otherwise your submission will be handled as a regular manuscript.

The Instructions to Authors can be found on the Transportation Science homepage: <http://pubsonline.informs.org/page/trsc/submission-guidelines>.

International Journal of Multicriteria Decision Making



Special Issue: Call for Papers on New Methodological and Practical Developments of the PROMETHEE Methods

Guest Editors:

Alessio Ishizaka, Salem Chakhar

Deadline for submission: **September 30, 2017**

<http://www.inderscience.com/info/ingeneral/cfp.php?id=3710>

PROMETHEE is one of the most popular multi-criteria decision aiding methods. Today, hundreds of applications have been published, several software packages are available, and new methodological developments (including group decision support, preference elicitation, sorting, visual management, etc.) have been proposed.

The issue will carry revised and substantially extended versions of selected papers presented at PROMETHEE Days 2017, but we also strongly encourage researchers unable to participate in the conference to submit articles for this call.

Suitable topics include, but are not limited to, the following:

- *Theoretical advances in the PROMETHEE and GAIA methods
- *Axiomatization
- *Extensions for sorting and clustering
- *Group decision support
- *Rank reversal
- *Preference elicitation
- *PROMETHEE applications
- *PROMETHEE software packages
- *Industrial case studies

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. (N.B. Conference papers may only be submitted if the paper has been completely re-written and if appropriate written permissions have been obtained from any copyright holders of the original paper).

All papers are refereed through a peer review process.

All papers must be submitted online. To submit a paper, please read our Submitting articles page.

Important Dates

Manuscripts due by: **30 September, 2017**

Notification to authors: 31 December, 2017

Final versions due by: 31 March, 2018

Operations Research for Health Care



Special Issue: Call for Papers on Multi-Criteria Decision Making in Health Care

Guest Editors:

Melanie Reuter, Sebastian Rachuba, Andrea Raith

Deadline for submission: **October 31, 2017**

<https://www.journals.elsevier.com/operations-research-for-health-care/call-for-papers/multi-criteria-decision-making-in-health-care>

Context:

The development and use of new models and concepts to support decision making in health care has constantly increased over the last decades and a variety of techniques has been applied including optimisation, simulation paradigms, and hybrid approaches. In general, quantitative decision support in health care very often needs to consider different criteria to evaluate whether a solution (e.g. a schedule or a network of locations) is good or optimal. In the assessment of solution quality, sometimes different stakeholder's views also need to be captured.

It has been stated in the literature that decision making in health care is, in fact, a multi-criteria decision problem. However, only a few studies do explicitly reflect on this or even critically discuss why a problem is of multi-criteria nature and how it should best be approached. Also, as health care problems address real world issues, the usefulness of such multi-criteria approaches for practitioners and the way solutions are presented and used is of crucial, yet often neglected, importance.

Hence, this special issue aims to collect articles which explicitly address the mentioned issues around multi-criteria decision making in health care. We invite discussions on how multiple criteria are selected, how they are modelled and which approaches can be used to solve the problems. Submissions should also provide insights from the collaborating health practitioners' perspective, e.g. did the model meet their requirements, and what were necessary simplifications, reductions, or extensions to the set of criteria that was used. Contributions should use dedicated multi-criteria approaches or discuss trade-offs between performance metrics. Finally, we encourage authors to discuss how their solutions have been presented to and used by decision makers.

This special issue "Multi-Criteria Decision Making in Health Care" aims to publish recent advances in the development and use of models and approaches in health care where multiple criteria are explicitly taken into account. We would like to invite both researchers and practitioners who develop and use operations research in health care to submit their work to be published in this special issue.

Possible application areas include, but are not limited to:

- *Location problems in health care
- *Operating room planning and scheduling
- *Physician and staff scheduling or rostering
- *Appointment planning
- *Emergency department modelling
- *Home care and long term care
- *Emergency medical service systems

- *Health care logistics
- *Radiation therapy
- *Screening and prevention

We welcome the submission of case studies, in particular when lessons learned from using multi-criteria decision analysis are shared. We invite researchers to submit their work to this special issue as an opportunity for publishing in a high quality journal. Submitted papers should fulfil the scope of Operations Research for Health Care (ORHC) as stated on the journal's homepage (a guide for authors is available here).

Submissions:

Please submit your full papers for ORHC through <http://ees.elsevier.com/orhc/>
Select the article type option for special issue from the drop down menu "**Special Issue: MCDM in Health Care**".
Submission Start Date: 1st July 2017
Last Date for Submission: **31st October 2017**
Closure of peer review process: 30th September 2018
Expected publication: January 2019

International Series in Operations Research & Management Science



Handbook of Operations Research and Management Science in Higher Education

Editor:

Zilla Sinuany-Stern

Deadline for submission: **October 31, 2017**

The Handbook will cover applications of Operations Research (OR) and Management Science (MS) in the management of Higher Education (HE) at all levels: departmental, institutional, and national. We welcome applications and literature reviews of OR/MS in HE in areas such as: strategy, budgeting, resource allocation, facility planning, faculty planning, performance, scheduling, efficiency, quality assurance, international comparisons, and ranking. All OR/MS methodologies applied to the management of HE are acceptable, such as: optimization, decision analysis, forecasting, simulation, and game theory. Original papers with review of the relevant literature and applications are welcome. The papers will be refereed.

Potential contributors are welcome to send via e-mail to: zilla@bgu.ac.il

extended abstract (including list of references) by **October 31, 2017**.

The Full paper/chapter is expected by May 20, 2018.

International Journal of Operations Research and Information Systems (IJORIS)



Special Issue: Call for Papers on Current Research Trends in Operational Research for Better Living

Guest Editors:

Pandian Vasant, Herman Mawengkang, Gerhard Wilhelm Weber

Deadline for submission: **November 20, 2017**

Introduction

We believe this special issue for the INTERIOR 2017 conference will be instrumental in generating ideas and disseminating information to a greater extent than is possible through more conventional forums.

Objective

This special issue is going to focus on all the major aspects in the fields of operation research (O.R.). It would be greatly beneficial for all students as well whoever is willing to enter into the research and development targeting to the respective fields.

Recommended Topics

- *Applied Mathematics
- *Business Analytics
- *Combinatorics and Graph Theory
- *Data Mining, Decision Analysis
- *Financial Engineering
- *Forecasting
- *Fuzzy theory
- *Game Theory
- *Heuristics
- *Industrial Engineering
- *Logistics
- *Mathematical Computer Sciences
- *Mathematical Finance and Actuary
- *Mathematical Optimization
- *Numerical Analysis
- *Probability and Statistics
- *Simulation
- *Social Network
- *Forecasting Model

Submission Procedure

Prospective authors should note that only original and previously unpublished articles will be considered. **INTERESTED AUTHORS MUST CONSULT THE JOURNAL'S GUIDELINES FOR MANUSCRIPT SUBMISSIONS** at <http://www.igi-global.com/publish/contributor-resources/before-you-write/> **PRIOR TO SUBMISSION**. All article submissions will be forwarded to at least 3 members of the Editorial Review Board of the journal for double-blind, peer review. Final decision regarding acceptance/revision/rejection will be based on the reviews received from the reviewers. All submissions must be forwarded electronically.

All submissions and inquiries should be directed to the attention of:

Guest Editors:

Dr. Pandian Vasant, Dr. Herman Mawengkang, and Dr. Gerhard Wilhelm Weber,
pvasant@gmail.com | hmawengkang@yahoo.com | gweber@metu.edu.tr

Submit at: <https://www.igi-global.com/submission/submit-manuscript/?jid=1141&cfcid=7d83c867-18c0-4b98-8996-78d54ef95061>

Journal of The Operational Research Society



Special Issue: Call for Papers on Healthcare Behavioural OR

Guest Editors:

Sally Brailsford, Mike Carter, Paul Harper, Kostantinos Katsikopoulos



Deadline for submission: **November 30, 2017**

Behavioural Operational Research (BOR) is defined as the study of behavioural aspects related to the use of OR methods in modelling, problem solving and decision support (Hämäläinen et al, 2013). BOR may broadly be considered within three categories: behaviour in models (methods), behaviour with models (actors) and behaviour beyond models (praxis) (Franco and Hämäläinen, 2017).

As comprehensive reviews of the application of OR to healthcare (e.g. Brailsford et al, 2009; Hulshof et al, 2012) reveal, relatively little prior consideration has been devoted to behavioural aspects in this field. Contrast this state of affairs with the need for behaviourally informed approaches in important issues of healthcare, such as:

- *Patient and staff behaviours relating to services and patient access to them, including service design, patient no-shows, provider response to congestion;
- *Patients' understanding of public health campaigns, including screening and treatment recommendations, and the decision making of patients;
- *The importance of behaviours from a policy maker's perspective and distinguishing between what some traditional OR models might deem 'optimal' solutions versus practical solutions. This may include the need to consider aspects such as public perception, workforce response, financial accountability, media coverage etc. and their influence on changes to health policy;
- *Physicians' understanding of the benefits and risks of recommendations, and the decision-making support physicians provide;
- *Effects of patients' social networks on the transmission, propagation, and reaction to disease.

The aim of this Special Issue is to engage those working within OR for healthcare who have an interest in behavioural aspects and how this impacts on theory and application. We will consider conceptual, modelling, and empirical manuscripts provided they take a behaviourally informed approach, and they seek to create a new body of knowledge concerning the role and impact of behavioural factors such as, but not limited to, those illustrated above. We welcome submissions across all three categories of BOR as defined earlier i.e. behaviour in models, behaviour with models and behaviour beyond models.

Review Paper

In accordance with guidelines for JORS special issues, we are required to include a review paper within the special issue, and are seeking expressions of interest. Please submit these to Paul Harper (harper@cardiff.ac.uk) by **31st August 2017**.

Instructions for Authors

<http://www.springer.com/business+%26+management/operations+research/journal/41274>

Each paper will be peer-reviewed according to the editorial policy of the journal. Papers should be original, unpublished, and not currently under consideration for publication elsewhere. Before submitting manuscripts authors are advised to ensure that they have conformed to the requirements detailed in the instructions to authors that can be found on the journal homepage. Manuscripts which are incorrectly formatted or do not contain all the required elements may be returned to authors for correction prior to review.

When submitting a paper, authors select "**Healthcare Behavioural OR**" from the Special Issue list to ensure that your manuscript is considered for this issue. The deadline for submissions is **November 30th 2017**.

Upcoming Conferences

Event Date	Event	Location	Submission Deadline
12th-14th July 2017	EUROPT 2017	Montréal, Canada	15th March 2017
13th-14th July 2017	ICORD 2017	Québec, Canada	30th March 2017
17th-21st July 2017	IFORS 2017	Québec, Canada	17th February 2017
17th-21st July 2017	28th International Workshop on Combinatorial Algorithms (IWOCA 2017)	Newcastle, Australia	31st March 2017
21st-24th July 2017	International Conference on Risk Analysis, Decision Analysis and Security	Beijing, China	15th April 2017
21st-25th July 2017	Healthcare Operations Research Summer School in Twente	Enschede, The Netherlands	10th April 2017
24th-25th July 2017	International Symposium on Industrial Engineering and Operations Management	Bristol, UK	14th March 2017
24th July-4th August 2017	Big Data and Analytics Summer School	Essex, UK	14th May 2017
26th-28th July 2017	INFORMS Healthcare Conference	Rotterdam, The Netherlands	24th March 2017
26th-29th July 2017	INFORMS Transportation and Logistics Society. First Triennial Conference	Chicago, USA	5th January 2017
30th July - 4th August 2017	ORAHS 2017	Bath, UK	12th May 2017
7th-18th August 2017	27th Jyväskylä Summer School	Jyväskylä, Finland	30th April 2017
14th-18th August 2017	Group Decision and Negotiation International Conference (GDN 2017)	Stuttgart, Germany	31st January 2017
14th-18th August 2017	FRICO 2017 (21st Workshop on Future Research on Combinatorial Optimization)	Trier, Germany	14th July 2017
16th-18th August 2017	MOPTA 2017	Bethlehem, PA, USA	15th June 2017

20th-24th August 2017	SPUDM26 (The 26th Subjective Probability, Utility, and Decision Making Conference)	Technion, Israel	15th March 2017
22nd-23rd August 2017	Symposium on Innovations and Sustainability	Hong Kong	20th April 2017
23rd-25th August 2017	IWLS 2017 - International Workshop on Lot Sizing	Glasgow, UK	1st June 2017
23rd-26th August 2017	7th International Conference on Logistics and Maritime Systems	Bergen, Norway	28th February 2017
28th August 2017	MCDMT 2017 (3rd Workshop on Modeling, Computing and Data Handling for Marine Transportation)	Larnaka, Cyprus	29th May 2017
28th August 2017	CP / ICLP / SAT Doctoral Program	Melbourne, Australia	19th June 2017
28th-31st August	Autumn School: Optimization in Machine Learning and Data Science	Trier, Germany	15th June 2017
28th August-1st September 2017	Eurocomb 2017 (European Conference on Combinatorics, Graph Theory and Applications)	Vienna, Austria	15th March 2017
29th August-1st September 2017	CP 2017 (International Conference on Principles and Practice of Constraint Programming)	Melbourne, Australia	27th April 2017
4th-6th September 2017	20th EURO Working Group on Transportation Meeting (EWGT)	Budapest, Hungary	15th December 2016
4th-7th September 2017	ODS2017 - International Conference on Optimization and Decision Science, XLVII annual meeting organized by Italian OR Society (AIRO)	Sorrento, Italy	30th April 2017
4th-7th September 2017	10th International Workshop on Computational Optimization (WCO17)	Prague, Czech Republic	10th May 2017
6th-8th September 2017	IV Workshop on Optimization Under Uncertainty in Sustainable Agriculture and Agrifood Industry	Lleida, Spain	7th August 2017
6th-8th September 2017	OR 2017 International Annual Meeting of the German OR Society (GOR)	Berlin, Germany	9th May 2017
6th-8th September 2017	Optimization 2017	Lisbon, Portugal	21st May 2017
6th-8th September 2017	2nd. Global Conference on Theory and Applications of OR/OM for Sustainability (GCTAOS)	Beijing, China	30th April 2017

7th September 2017	17th Workshop on Algorithmic Approaches for Transportation Modeling, Optimization, and Systems (ATMOS 2017)	Vienna, Austria	1st July 2017
7th-8th September 2017	WAOA 2017 (15th Workshop on Approximation and Online Algorithms)	Vienna, Austria	27th June 2017
11th-15th September 2017	Lagos 2017 (IX Latin and American Algorithms, Graphs and Optimization Symposium)	Marseille, France	31st March 2017
12th-14th September 2017	UK OR Society OR59 Annual Conference	Loughborough UK	14th July 2017
14th-15th September 2017	BLGDRC Annual Conference 2017	Colchester, UK	
14th-17th September 2017	3rd Int. Workshop on Machine learning, Optimization & big Data - MOD 2017	Tuscany, Italy	31st May 2017
18th-20th September 2017	2017 IEEE International Conference on Service Operations and Logistics, and Informatics (SOLI 2017)	Bari, Italy	15th March 2017
18th-22nd September 2017	CP & OR Summer School	Porquerolles, France	31st July 2017
20th-22nd September 2017	European Conference on Stochastic Optimization	Rome, Italy	25th May 2017
21st-22nd September 2017	The Karlsruhe Service Summit (KSS) Research Workshop	Karlsruhe, Germany	20th June 2017
25th-28th September 2017	18th French-German-Italian Conference on Optimization	Paderborn, Germany	23rd May 2017
26th-30th September 2017	DMMS (1st International Conference on Decision Making in Manufacturing and Services)	Zakopane, Poland	21st May 2017
27th-29th September 2017	SOR '17 The 14th International Symposium on Operations Research in Slovenia	Bled, Slovenia	18th June 2017
27th-29th September 2017	I International Conference on Agro BigData and Decision Support Systems in Agriculture	Montevideo, Uruguay	4th June 2017
2nd-6th October 2017	AGIFORS 57th Annual Symposium	London, UK	15th August 2017
2nd-7th October 2017	VIII International Conference Optimization and Applications (OPTIMA-2017)	Petrovac, Montenegro	25th May 2017
11th-13th	IESM2017 - International Conference on Industrial	Saarbrücken,	17th April 2017

October 2017	Engineering and Systems Management	Germany	
18th-20th October 2017	8th International Conference on Computational Logistics (ICCL'17)	Southampton, UK	8th June 2017
22nd-25th October 2017	2017 INFORMS Annual Meeting	Houston, Texas, USA	15th May 2017
23rd-25th October 2017	The 8th Conference on Decision and Game Theory for Security	Vienna, Austria	8th July 2017
24th-26th October 2017	ISFUROS 2017	Villa Clara, Cuba	30th June 2017
25th-26th October 2017	International Congress on Industrial Engineering and Operations Management	Bogota, Colombia	30th May 2017
25th-27th October 2017	ADT 2017 -- 5th International Conference on Algorithmic Decision Theory	Luxembourg	9th April 2017
30th-31st October 2017	12th International Conference on Multiple Objective Programming and Goal Programming (MOPGP 2017)	Metz, France	25th July 2017
3rd-4th November 2017	COMPSE - 2nd EAI International Conference on Computer Science and Engineering	Bangkok, Thailand	30th July 2017
24th-25th November 2017	Kolkom 2017 (Colloquium on Combinatorics)	Paderborn, Germany	31st October 2017
27th November - 1st December 2017	2017 IEEE Symposium Series on Computational Intelligence (IEEE SSCI 2017)	Hawaii, USA	16th July 2017
3rd-6th December 2017	Winter Simulation Conference 2017	Las Vegas, USA	28th April 2017
5th-8th December 2017	MISTA 2017	Kuala Lumpur, Malaysia	31st July 2017
9th-12th December 2017	ISAAC 2017 (28th International Symposium on Algorithms and Computation)	Phuket, Thailand	29th June 2017
10th-13th December 2017	2017 IEEE International Conference on Industrial Engineering and Engineering Management	Singapore	1st June 2017
16th-20th December 2017	4th Conference on Optimization Methods and Software	Havana, Cuba	15th September 2017

21st-23rd December 2017	AFOR 2017: "Advancing Frontiers in Operational Research: Towards a Sustainable World"	Calcutta, India	31st May 2017
8th-10th January 2018	6th INFORMS Transportation Science and Logistics Society Workshop "E-Commerce and Urban Logistics"	Hong Kong	15th July 2017
15th-19th January 2018	7th edition of the Winter School on Network Optimization	Estoril, Portugal	31st October 2017
17th-19th January 2018	BAFI 2018. 3rd Conference on Business Analytics in Finance and Industry	Santiago, Chile	31st July 2017
25th-27th January 2018	WGSCO2018 (Workshop on Graph Spectra, Combinatorics and Optimization)	Aveiro, Portugal	30th September 2017
6th-8th March 2018	8th International Conference on Industrial Engineering and Operations Management (IEOM)	Bandung, Indonesia	30th September 2017
19th-21st March 2018	9th Simulation Workshop (SW18)	Stratford, UK	29th September 2017
21st-24th March 2018	20th International Conference on Enterprise Information Systems (ICEIS)	Madeira, Portugal	18th October 2017
22nd-23rd March 2018	19th EU/ME Workshop on Metaheuristics for Industry	Geneva, Switzerland	3rd November 2017
17th-20th April 2018	16th Int'l Conference on Project Management and Scheduling	Rome, Italy	31st October 2017
10th-12th May 2018	The 7th International Conference on Multidimensional Finance, Insurance and Investment (ICMFI'18)	Crete, Greece	15th February 2018
16th-18th May 2018	BIOMA'2018 (8th International Conference on Bioinspired Optimization Methods and their Applications)	Paris, France	1st December 2017
23rd-25th May 2018	EURO Working Group on Location Analysis Meeting, EWGLA XXIV	Edinburgh, UK	
3rd-8th June 2018	Odysseus 2018	Cagliari, Italy	15th November 2017
18th-22nd June 2018	IWOBIP'18 (International Workshop on Bilevel Programming)	Lille, France	
25th-27th June 2018	Joint EURO/ALIO International Conference 2018 on Applied Combinatorial Optimization	Bologna, Italy	8th January 2018

