Journal Special Issues related to decision-making methods and their applications

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Members of EWG-ORSDCE have been continuing tradition and successfully Guest Editing special issues of journals related to the research field.
As was mentioned in the *Newsletter 7 of EWG ORSDCE*, December 2016:

- The Special Issue "*Decision Making Methods and Applications in Civil Engineering*" in "*Mathematical Problems in Engineering*" journal was published in 2015.

  See: https://www.hindawi.com/journals/mpe/si/267648/

- The Special Issue "*Mathematical Models for Dealing with Risk in Engineering*" in "*Mathematical Problems in Engineering*" journal was published in 2016.

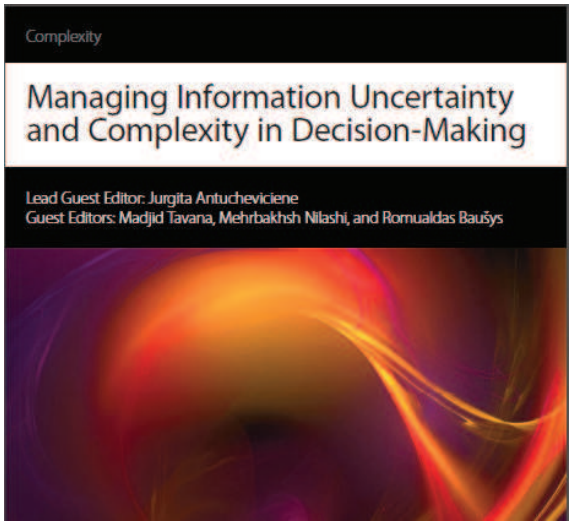
  See: https://www.hindawi.com/journals/mpe/si/162542/

The third Special Issue, Guest Edited by Members of EWG-ORSDCE, was published in 2017 in **"*Complexity*"** journal.
"Complexity" is a cross-disciplinary journal focusing on the rapidly expanding science of complex adaptive systems. The purpose of the journal is to advance the science of complexity. Papers treating applications in any area of natural science or human endeavour are welcome.
The journal is published by Hindawi Publishing Corporation as part of a publishing collaboration with John Wiley & Sons, Inc.
The most recent Impact Factor of journal "Complexity" is 4.621 according to the 2016 Journal Citation Reports released Clarivate Analytics in 2017. The journal is in quartile Q1 in "Mathematic, Multidisciplinary Applications" Web of Science category and is very highly ranked in the category: 2/100. In the Web of Science category "Multidisciplinary Sciences" the journal is also in quartile Q1 and takes a high 9th position from 64 journals referred in the category (9/64).

- The title of the Special Issue is **"*Managing Information Uncertainty and Complexity in Decision-Making*"**.

  See: https://www.hindawi.com/journals/complexity/si/513462/

Lead Guest Editor: Jurgita Antuchevičienė, Vilnius Gediminas Technical University, Lithuania; Guest Editors: Madjid Tavana, La Salle University, Philadelphia, USA; Mehrbakhsh Nilashi, Universiti Teknologi Malaysia, Johor, Malaysia; Romualdas Baušys, Vilnius Gediminas Technical University, Lithuania.



Information uncertainty and complexity are a common paradigm in modern decision-making because perfect information is seldom available to decision-makers. A wide range of statistical and non-statistical decision-making models have been proposed in the literature to model complex systems under uncertainty. Statistical methods (i.e., probability theory) are useful in modelling complex systems with incomplete or inaccurate data while non-statistical methods (i.e., fuzzy set theory, rough set theory, possibility theory, or fuzzy neural networks) are useful for modelling complex systems with imprecise, ambiguous, or vague data.
The special issue aimed at providing recent developments in managing information uncertainty and complexity in decision-making. The researchers were invited to submit original research articles that proposed formal decision-making methods to describe and rationalize the process of decision-making in complex systems under uncertainty.
This special issue received twenty-four articles, and after rigorous review, six articles were accepted and included in the issue.

A short description of each of the articles is provided in Editorial.
See: https://www.hindawi.com/journals/complexity/2017/1268980/
All the articles of the special issue you can read here:
https://www.hindawi.com/journals/complexity/si/513462/

In addition, the issue includes Review Article co-authored by Guest Editors "Recent Fuzzy Generalisations of Rough Sets Theory: A Systematic Review and Methodological Critique of the Literature". The article presents a comprehensive and systematic review of methodological approaches and applications of fuzzy-rough set theory including fuzzy logic and fuzzy sets, rough sets, fuzzy logical operators, and fuzzy relations. A total of 132 papers were selected for this systematic review and meta-analysis for a seven-year period from 2010 to 2016. This study found that fuzzy set theory combined with rough set theory was the most widely used method.
You can read the Review Article here:
https://www.hindawi.com/journals/complexity/2017/1608147/

We think the special issue is interesting to all those who have to make decisions in uncertain environments, including engineers, managers, and economists interested in the analytical and practical aspects of hybrid multiple-criteria decision-making methods.

Three more Special Issue Guest Edited by Members of EWG-ORSDCE are currently open for submissions. Your papers are welcome.



- Special Issue ***"Sustainability in Construction Engineering"*** in *"Sustainability"* journal (MDPI Publisher, Web of Science Core Collection, IF = 1.789)

http://www.mdpi.com/journal/sustainability/special_issues/Sustainability_Construction_Engineering

Guest Editors: Edmundas Kazimieras Zavadskas; Jonas Šaparauskas; Jurgita Antuchevičienė

Articles are welcome on this issue, where sustainable solutions in construction engineering that bring economic, social and environmental benefits are offered through a variety of methodologies and tools (e.g. information technologies, life-cycle analysis, multiple criteria decision making methods). Articles that propose new methodologies dealing with construction sustainability issues are also welcome.

Deadline for manuscript submissions: 30 April 2018



- Special Issue ***"Civil Engineering and Symmetry"*** in *"Symmetry"* journal (MDPI Publisher, Web of Science Core Collection, IF = 1.457)

http://www.mdpi.com/journal/symmetry/special_issues/Civil_Engineering_Symmetry

Guest Editors: Edmundas Kazimieras Zavadskas; Romualdas Baušys; Jurgita Antuchevičienė

The topic of utmost importance in civil engineering is optimal solutions throughout the life cycle of the buildings, roads, bridges and other infrastructure objects. Operational research, management science, optimization methods provide a consistent and applicable groundwork for engineering decision making. Therefore, articles are welcome on these topics and methodologies.

Deadline for manuscript submissions: 31 January 2018



- Special Issue ***"Economic Growth as a Consequence of the Industry 4.0 Concept"*** in "Economies" journal (MDPI Publisher, Emerging Sources Citation Index)

http://www.mdpi.com/journal/economies/special_issues/industry4.0

Guest Editors: Petra Maresova, Jonas Šaparauskas, et al.

To remain efficiency, it is essential for public and private sector to adopt new methodologies of public sector management, process management, manufacturing, and innovation. The impact of change is so crucial that it is referred to as the Fourth Industrial Revolution—Industry 4.0. Papers on the subject, which should highlight the economic consequences, are welcome.

Deadline for manuscript submissions: 31 May 2018