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Call for Papers

Special Issue on “Decision Support: Combining Technology
and Algorithms to Solve Complex Problems”

Guest Editors

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Supporting decision makers in complex problems involving multiple stakeholders, multiple criteria, uncertainty and risk or other factors has been an important goal of Operations Research since the field emerged. New developments in technology have increased the computing power available for problem solving and have made technology and algorithms much more accessible by providing new ways of communicating with models and tools. The aim of this special issue is to take stock of the fundamental concepts of decision support that remain valid in this changing environment or that need to be adjusted. We also intend to provide an overview of state of the art in supporting decision makers in solving the complex and important decision problems we are facing.

Specifically, we seek contributions covering:

- Original developments at the crossroads of Artificial Intelligence or Machine Learning and Decision Support Systems or Multiple Criteria Decision Analysis;
- Theoretical aspects and algorithmic developments involving fair and explainable preference models, interactive approaches, preference learning, and robustness analysis;
- Group decision support methods and systems,
- Novel applications of decision support in emerging fields such as sustainable development, resilience and risk assessment, healthcare, policy analytics, environmental management, urban and territorial planning, resource allocation, portfolio selection, and Covid-related studies.

The deadline for submissions is October 18, 2021. We encourage authors who presented their work in the area of decision support at the EURO 2021 taking place in Athens, Greece, July 11–14 to submit their manuscripts. However, this Call for Papers is also open to the entire community of academics and practitioners.

Papers will be peer-reviewed according to the editorial policy of the *International Transactions in Operational Research* (ITOR), published by the International Federation of Operational

Research Societies. Contributions should be prepared according to the instructions to authors on the journal homepage. Authors should upload their contributions using the submission site <http://mc.manuscriptcentral.com/itor>, indicating in their cover letter that the paper is intended for this special issue.

Other inquiries should be sent directly to any of the Guest Editors in charge of this issue: Miłosz Kadziński (milosz.kadzinski@cs.put.poznan.pl), Rudolf Vetschera (rudolf.vetschera@univie.ac.at), and Pascale Zaraté (pascale.zarate@ut-capitole.fr).