Special Issue

Advances in Combinatorial Optimization and Discrete Mathematics with Applications

Message from the Guest Editors

This Special Issue is devoted to state-of-the-art research on combinatorial optimization and overall discrete mathematics, particularly applications related to both. Therefore, the guest editors wish to provide a platform for the presentation of the latest advances in all aspects of combinatorial optimization and discrete mathematics, especially those dealing with practical applications. Among the topics that this Special Issue aims to address, we may consider such as those mentioned in the nonexhaustive list below: Mathematical models for combinatorial optimization problems (COPs), such as job shop scheduling, knapsack problems, bin packing, traveling thief, balanced partition, constraint satisfaction, etc., representing a contribution to the field (such as more general models or novel hybrid models); solution approaches for tackling COPs; application of current COPs to real-life problems; modeling of complex environments (such as robotic mobile fulfilment systems) as COPs; mathematical methods for tackling COPs; etc.

Guest Editors

Dr. Ivan Mauricio Amaya-Contreras

Tecnologico de Monterrey, School of Engineering and Sciences, Monterrey 64849, Mexico

Dr. José Carlos Ortiz-Bayliss

Tecnologico de Monterrey, School of Engineering and Sciences, Monterrey 64849, Mexico

Deadline for manuscript submissions

closed (31 March 2025)



Axioms

an Open Access Journal by MDPI

Impact Factor 1.6



mdpi.com/si/153383

Axioms
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
axioms@mdpi.com

mdpi.com/journal/axioms





Axioms

an Open Access Journal by MDPI

Impact Factor 1.6



About the Journal

Message from the Editor-in-Chief

Axioms is dedicated to the foundations (structure and axiomatic basis, in particular) of mathematical theories, not only from a crisp or strictly classical sense, but also from a fuzzy and generalized sense. This includes the more innovative current scientific trends, devoted to discover and solve new challenging problems. The prime goal of Axioms is to publish first-class, original research articles under an open access policy with minimal fees for the authors. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Humberto Bustince

Department of Statistics, Computer Science and Mathematics, Public University of Navarra, 31006 Pamplona, Spain

Author Benefits

Open Access

 free for readers, with article processing charges (APC) paid by authors or their institutions.

High visibility:

indexed within SCIE (Web of Science), dblp, and other databases.

Journal Rank:

JCR - Q2 (Mathematics, Applied)

