



Some Applications of Mathematical Methodologies in Operations Research

Guest Editors:

Dr. Rekha Guchhait

Department of Industrial Engineering, Yonsei University, 50 Yonsei-ro, Sinchon-dong, Seodaemun-gu, Seoul 03722, Republic of Korea

Prof. Dr. Biswajit Sarkar

Department of Industrial Engineering, Yonsei University, 50 Yonsei-ro, Sinchon-dong, Seodaemun-gu, Seoul 03722, Republic of Korea

Deadline for manuscript submissions:

closed (30 May 2024)

Message from the Guest Editors

Dear Colleagues,

The applications of mathematical methods for operations research are well established. The emerging fields require mathematical methods such as calculus, statistics, probability, queuing theory, and numerical methods along with developed metaheuristics and advanced artificial intelligence for problem solving and decision making. This Special Issue aims to find novel mathematical methods for optimization and problem solving in the emerging fields of operations research, especially for technology development, sustainability, and climate change issues within operations research. The proposed methods should solve higher-dimensional non-linear constraint and unconstraint optimization problems, but should not be limited to these. Novel approaches for complex linear constraints and unconstraint problems are also acceptable. The scope of this Special Issue is not only limited to the above topics of operations research but also welcomes other novel methods for problem solving, global optimization, and best-fit solutions.

Dr. Rekha Guchhait
Prof. Dr. Biswajit Sarkar
Guest Editors





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Humberto Bustince

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

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.

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 - Q1 (Mathematics, Applied)

Rapid Publication: manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.8 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2023).

Contact Us

Axioms Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/axioms
axioms@mdpi.com
[X@Axioms_MDPI](https://twitter.com/Axioms_MDPI)