

Special Issue

Recent Developments in Graph Theory

Message from the Guest Editor

It brings me great pleasure to announce the commencement of our latest Special Issue, focusing on the forefront of advancements and research within the realm of graph theory and discrete applied mathematics, particularly spotlighting domination theory and chemical graph theory. The realm of domination stands as a swiftly expanding domain within graph theory, bearing significant real-world applications spanning various sectors. These applications range from the analysis of electrical and communication networks to optimization and coding theory. Similarly, the realm of chemical graph theory holds immense application potential, employing graph theoretical constructs to model the physical and biological attributes of chemical compounds. We extend a cordial invitation to researchers who are actively engaged in these fields to contribute their work to this Special Issue. We firmly believe that this compilation will serve as a pivotal repository of knowledge and inspiration for the researchers, professionals, and students vested in these dynamic and rapidly evolving domains.

Guest Editor

Dr. Simon Brezovnik

Department for Mathematics, University of Ljubljana, 1000 Ljubljana, Slovenia

Deadline for manuscript submissions

27 May 2025



Axioms

an Open Access Journal
by MDPI

Impact Factor 1.9



mdpi.com/si/201621

Axioms

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

[mdpi.com/journal/
axioms](https://mdpi.com/journal/axioms)





Axioms

an Open Access Journal
by MDPI

Impact Factor 1.9



[mdpi.com/journal/
axioms](https://mdpi.com/journal/axioms)



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 - Q1 (Mathematics, Applied)