

Special Issue

Advances in Operator Theory and Nonlinear Evolution Equations

Message from the Guest Editor

Recent progress in abstract operator theory is shown with respect to real and complex analysis. Although discussion is basically developed in the abstract Banach spaces framework, more concrete mathematical spaces such as Besov spaces are employed in some cases. Among others, much attention is paid on the abstract operator theory applied to the nonlinear evolution equations, where the formation of certain kinds of nonlinear semigroups and its profiling is one of the key issues. Consequently, from an operator algebraic point of view, the sub- and super-algebraic structures of Banach algebra is found. For accomplishing the classification of generally unbounded operator, the integral representations of operators in the complex plane are effectively used, so that those concepts are explained.

Guest Editor

Dr. Yoritaka Iwata

Faculty of International Studies, Osaka University of Economics and Law, Yao 581-0853, Japan

Deadline for manuscript submissions

31 December 2026



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/257247

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

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





Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



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



About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and Informatics, De Montfort University,
The Gateway, Leicester LE1 9BH, UK

Author Benefits

High Visibility:

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

Journal Rank:

JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.3 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 2025).