

# Special Issue

## Advances in Convex Analysis and Inequalities

### Message from the Guest Editor

Convex analysis, a vital branch of mathematics, explores the properties of convex functions and sets, providing crucial tools and applications across various scientific and mathematical disciplines. Its significance is particularly notable in optimization problems, where convex functions offer several advantageous properties. Additionally, inequalities such as Jensen's and Hermite–Hadamard inequalities, which are essential in convex functions, play a pivotal role in many mathematical areas. This Special Issue welcomes submissions on new developments in convex analysis and mathematical inequalities, including innovative proofs of classical inequalities and their generalizations. We welcome contributions across various domains, such as integral, differential, norm, operator, and matrix inequalities, as well as applications in probability and statistics. We encourage the submission of papers on new proofs of well-known inequalities or inequalities in various domains: integral inequalities, differential inequalities, and norm, operator, and matrix inequalities.

### Guest Editor

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### Deadline for manuscript submissions

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## Mathematics

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## 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.

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