

Special Issue

Numerical Analysis and Optimization

Message from the Guest Editors

We prepare a collection of papers in applied mathematics regarding its two essential subject matters: numerical analysis and optimization. These two areas are the forerunners of the mathematical modeling and the numerical simulations. Mathematical modeling tools allow us to transform a physical reality into adequate abstract models on which we can further apply relevant calculations. Correspondingly, numerical simulation presents the process through which we calculate the solutions of the mathematical models on a computer, thus allowing us to simulate physical reality. Topics include but are not limited to:

- unconstrained optimization
- constrained optimization
- optimization methods
- iterative processes
- gradient-descent methods
- projection methods
- line search
- convergence rate
- hybrid methods
- linear matrix equations
- nonlinear system of equations

Guest Editors

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Deadline for manuscript submissions

closed (31 January 2025)



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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

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