Special Issue

Advances in Optimization Algorithms and Its Applications

Message from the Guest Editor

As the landscape of technological advancements continues to evolve at an unprecedented pace, the demand for efficient and effective optimization algorithms has grown exponentially across diverse engineering domains. These algorithms play a pivotal role in solving complex real-world problems, ranging from resource allocation and system design to parameter tuning and decision-making processes. The Special Issue, titled "Advances in Optimization" Algorithms and Its Applications", will consolidate the latest research endeavors that have pushed the boundaries of optimization methodologies, particularly those inspired by biological systems. By harnessing the power of evolutionary processes, swarm intelligence, and other natural phenomena, these algorithms demonstrate remarkable potential in tackling intricate challenges characterized by non-convexity, nonlinearity, high dimensionality, and stringent constraints. This Special Issue invites submissions from researchers worldwide, showcasing cutting-edge works that contribute to the theoretical foundations and practical applications of optimization algorithms.

Guest Editor

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Deadline for manuscript submissions

closed (31 July 2025)



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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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