Emerging Research in Optimization Algorithms in the Era of Big Data

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Message from the Guest Editors

The Special Issue "Emerging Research in Optimization Algorithms in the Era of Big Data" is OPEN!

This Special Issue explores the dynamic landscape of optimization algorithms tailored to the challenges of big data analytics and presents the latest advances and emerging trends. This collection covers a wide range of topics, including evolutionary algorithms, genetic programming, swarm intelligence, nature-inspired optimization techniques, parallel and distributed optimization algorithms optimized for the Cloud, deep learning-based optimization strategies, hybrid optimization frameworks, and optimization algorithms for real-time processing of big data and streaming analytics. In addition, applications of optimization algorithms are explored in various areas, such as healthcare, finance, transportation, and cybersecurity, incorporating advances in generative AI to improve optimization capabilities in cloud-based environments. This Special Issue is a testament to the vibrant research community dedicated to advancing optimization algorithms in the context of big data analytics.

Special Issue

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Message from the Editor-in-Chief

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