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# **Optimization Method and Its Applications in Machine Learning**

Guest Editors:

### Message from the Guest Editors

Prof. Dr. Gonglin Yuan

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Dr. Xiaoliang Dong

Prof. Dr. Stefania Bellavia

Deadline for manuscript submissions: closed (31 January 2024) Dear Colleagues,

This Special Issue focuses on exploring the use of machine learning and optimization techniques, and how these methods are applied in engineering mathematics. It aims to investigate their synergistic relationship and demonstrate their potential in solving complex engineering problems. The scope of this Special Issue includes topics such as the application of machine learning algorithms, integration of optimization methods with machine learning, development of hybrid models, utilization of machine learning for parameter estimation and system identification, optimization-based approaches to enhance machine learning, and case studies demonstrating realworld applications. Topics include, but are not limited to,

- machine learning
- optimization algorithms
- engineering mathematics
- convergence
- application
- interdisciplinary collaboration



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### **Editor-in-Chief**

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### Message from the Editor-in-Chief

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