Special Issue

Machine Learning for Edge Computing

Message from the Guest Editors

We are delighted to invite you to submit your latest research to this Special Issue titled "Machine Learning for Edge Computing".

Potential topics include, but are not limited to, lightweight neural networks, federated learning, real-time data processing, energy-efficient ML architectures, and ML applications at the edge. We particularly welcome submissions demonstrating innovative approaches to adapting algorithms for reduced power consumption, efficient computation, and the trade-offs between computational complexity and performance in edge scenarios.

Contributions may range from exploring the balance between accuracy and computational demand in applications such as connected vehicles, smart cities, IoT systems, and the edge-cloud continuum to investigating the impact of machine learning on the privacy and security of edge computing systems. This Special Issue provides a platform for researchers and practitioners from academia and industry to share their insights and findings, helping us to push the boundaries of what is possible in edge computing with machine learning.

Guest Editors

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Deadline for manuscript submissions

closed (30 April 2025)

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Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

Editor-in-Chief

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