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# **Recent Applications of Machine Learning in Quantum Networks**

Guest Editors:

### Message from the Guest Editors

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Deadline for manuscript submissions: 15 February 2025 Dear Colleagues,

of machine learning The convergence and the computational capabilities of quantum computing is attracting increasing interest as a novel methodology that leverages principles borrowed from quantum mechanics to provide a robust speedup to current AI approaches, reduce the amount of data necessary for training, overcome the computational constraints of current AI approaches and open new possibilities both for generative AI and general optimization tasks. Quantum machine learning (OML) has shown enormous potential, raising the performance bar in algorithm optimization and computational cost in a wide variety of tasks. QML approaches range from Quantum Support Vector Machines (OVMs), Quantum Variational Circuits (OVC), and Ouantum Neural Networks (ONNs).

Such approaches and recent advances in quantum machine learning, both from a theoretical and application perspective, are the focus of this Special Issue. It will provide up-to-date findings in theories, approaches, and experiments for a broad range of readers.









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# **Editor-in-Chief**

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### Message from the Editor-in-Chief

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