Special Issue

Advances in Quantum Machine Learning (QML)

Message from the Guest Editors

Quantum machine learning is an emerging interdisciplinary field that has developed rapidly in recent years, combining the advantages of quantum computing and machine learning, aiming to improve the performance and efficiency of machine learning algorithms through utilizing the characteristics of quantum computing. The development of quantum machine learning includes, among others, the following aspects: 1. Quantum neural networks and quantum classifiers; 2. Quantum optimization algorithms; 3. Quantum kernel method and quantum support vector machine; 4. Quantum-generated adversarial networks In addition to the above advances in its application, the field of quantum machine learning has also made important theoretical breakthroughs. Overall, the field of quantum machine learning has made remarkable progress over the past few years, but still faces many challenges and unresolved problems. With the continuous development and improvement of quantum computing technology, it is believed that quantum machine learning will play an important role in more fields in the future, bringing breakthroughs and opportunities for the development of artificial intelligence.

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