Invited talks

Quantum machine learning

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Quantum machine learning (QML) has emerged as a promising application within the framework of quantum computing. Although there is still a long way to compete against state-of-the-art classical methods, QML offers new perspectives to tackle learning tasks. In this talk, I will give an overview of the existing quantum machine learning techniques, ranging from variational models to deterministic recipes. Through the talk, we will address important concepts in the field, such as trainability, quantum advantage and expressivity, as well as their relative interplays. The aim of this talk is to provide perspective on what can and cannot be done, and what are the current trends of thought in the field.