

Contribution ID: 28 Type: not specified

Synergies between Quantum Computing and Machine Learning

Thursday 8 July 2021 21:20 (20 minutes)

I will give a very brief (and incomplete) review on quantum machine learning techniques and focus then on novel quantum computing approaches for the task of finding a solution to an optimisation problem. I will then give explicit examples how quantum machine learning techniques can be used for classification tasks and to calculate solutions to nonperturbative problems in quantum field theory.

Affiliation

IPPP Durham

Academic Rank

Author: SPANNOWSKY, Michael (University of Durham (GB))

Presenter: SPANNOWSKY, Michael (University of Durham (GB))

Session Classification: New Horizons