

欢迎在线参加清华大学计算机系人智实验室学术沙龙活动第二期之量子机器学习专题

第一部分：特邀报告

Title: Quantum Neural Networks

Speaker: Marika Kieferova

Time: March 31st (Thursday) 12:00 pm - 1:00 pm

Venue: FIT 1-315

Zoom: 828 7785 5548 (password: 839456)

Abstract: Quantum neural networks (QNNs) are a framework for creating quantum algorithms that promises to combine the speedups of quantum computation with the widespread successes of machine learning. A major challenge in QNN development is a concentration of measure phenomenon known as a barren plateau that leads to exponentially small gradients for a range of QNNs models. In this work, we examine the assumptions that give rise to barren plateaus and show that an unbounded loss function can circumvent the existing no-go results.

第二部分：圆桌讨论

Panel Discussion on Quantum Machine Learning

Time: 1:00 pm - 1:30 pm

Panelists (alphabetical order):

Dong-Ling Deng, Marika Kieferova, Tongyang Li, Xiao Yuan, Jun Zhu

Host: Zhengfeng Ji