

Quantum Machine Learning using Genetic Algorithms

Abstract

5 Methods and systems for determining a target QNN configuration for a problem domain by
generating a population of candidate QNN configurations based on a plurality of features,
performing a genetic search in the population of QNN configurations for a target QNN by
iteratively evolving the population of QNN configurations based on fitness metrics to identify a
target QNN configuration with the highest fitness metric.

10

Figure 1