



# Quantum Positive Unlabeled Learning for PV and Other Applications



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- Objective: develop novel QPU Learning algorithms for solar panel fault detection
- Trained positive unlabeled learning (PU learning) algorithms using:
  - Quantum neural networks (QNN)
  - Quantum support vector machines (QSVM)
- Compared each PU learning algorithm and determine feasibility of quantum PU learning in solar fault detection
- QPU Learning can reduce labeling and time costs required to train a model
- Further applications in synthetic aperture radar image classification

