

Quantum Computing @ INFN

Tuesday, 29 October 2024

Quantum Machine Learning - Sala Elettra (16:20 - 18:40)

time	[id] title	presenter
16:20	[11] Grokking as an entanglement transition during training dynamics of MPS machine learning	POMARICO, Domenico
16:40	[4] QIBO: An open-source modular framework for quantum computing	BORDONI, Simone CARRAZZA, Stefano
17:00	[1] Quantum noise modeling through Reinforcement Learning	BORDONI, Simone
17:20	[23] Early exiting from Quantum Neural Network as a noise mitigation strategy in NISQ devices, a preliminary study	VITTORI, Giacomo
17:40	[2] Quantum diffusion models for quantum data learning	CACIOPPO, Andrea
18:00	[16] Estimates of loss function concentration in noisy parametrized quantum circuits	CROGNALETTI, Giulio
18:20	[6] Backend-tailored quantum feature maps optimization through genetic algorithms in neutrino physics	MORETTI, Roberto

Thursday, 31 October 2024

Quantum Machine Learning - Sala Elettra (09:00 - 10:55)

time	[id] title	presenter
09:00	[33] INVITED: Quantum Computing in experimental HEP	Dr GROSSI, Michele GROSSI, Michele
09:35	[18] Quantum Graph Neural Networks for charged particle tracking	ARGENTON, Matteo
09:55	[7] Quantifying the Complexity of Learning Quantum Features	BANCHI, Leonardo
10:15	[29] Synergy between quantum computers and classical deep learning	PILATI, Sebastiano
10:35	[40] Quantum-Enhanced Machine Learning for Classifying Phases of Matter	KHOSROJERDI, Mehran