Quantum Techniques in Machine Learning 2022
8-11 November 2022 Naples, Italy

Call for Papers

Quantum Techniques in Machine Learning (QTML) is an annual international conference focusing on the interdisciplinary field of quantum technology and machine learning. The goal of the conference is to gather leading academic researchers and industry players to interact through a series of scientific talks focused on the interplay between machine learning and quantum physics.

QTML was first hosted in Verona, Italy (2017), then in Durban, South Africa (2018), Daejeon, South Korea (2019), virtual (2020, hosted by Zapata Computing), virtual (2021, hosted by RIKEN-AIP). This is the conference's sixth annual year and will be held in Naples, at Conference Centre of University of Naples Federico II, located on the seafront of Naples in the central area, panoramic and close to the best hotels in town.

QTML 2022 topics include, but are not limited to:

- Quantum algorithms for machine learning tasks
- Learning and optimization with hybrid quantum-classical methods
- Tensor methods and quantum-inspired machine learning
- Data encoding and processing in quantum systems
- Quantum learning theory
- Fuzzy logic for quantum machine learning
- Quantum state reconstruction from data

- Quantum Tomography
- Machine learning for experimental quantum information
- Quantum evolutionary algorithms
- Quantum machine learning applications for industry, chemistry, biology, finance, cybersecurity
- Quantum Variational Circuits

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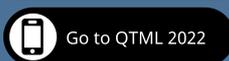
Submission deadline: July 1, 2022
Poster submission deadline: July 31, 2022
Website: https://quasar.unina.it/qtml2022.html