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Consiglio Nazionale delle Ricerche

IMEM-CNR, Webinar – 12/10/2021, ore 11:00

Seminario su

Stochastic modeling and analysis of methods and algorithms

for quantum computing

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In the emerging field of quantum computing, among the possible scenarios of quantum systems utilization are the hybrid quantum-classical systems that need corresponding software and algorithms. One of the important steps of such algorithms is complexity analysis which basically starts with convergence proof/evaluation. In the talk we will address the issues of algorithm convergence formal proof, convergence speed evaluation/estimation and performance evaluation of the quantum computing speedup methods in traditional fields, such as Monte-Carlo simulation, by means of applied probability and stochastic simulation.