



Seminar Announcement

Ing. Pierpaolo Marturano

CEO & Founder - dotQuantum.io

Quantum Computing: Challenges & Opportunities

Thursday, 20 December 2018, h. 14.30

Sala Wataghin, Physics Department, via P. Giuria 1, Torino



The speaker

Pierpaolo Marturano is an electronic engineer and the founder of *dotQuantum* CEO &. He has more than 20 years of experience in teaching software development and has been working on quantum computing since 2014.

dotQuantum is an Italian Quantum Computing start up that deals with the teaching of how to program a quantum computer and with research on quantum algorithms.

Abstract

Quantum Computing is a geopolitical and economic game changer. It will have an impact on each and every area of our lives, by creating new industries and disrupting existing ones. Some of the potential market segments include health, finance, machine learning, simulation, logistics, cryptography, pharmaceuticals, global warming and security. Every day, an increasing number of research centers, large corporations and SMEs are becoming interested in quantum computation, and how this technology could improve and accelerate problem-solving and data processing. After an introduction to Quantum Computing, I will describe the state of the art from the point of view of the important players that are working in this area (IBM, Google, Microsoft, etc.) and what we will likely do when we enter the Noisy Intermediate-Scale Quantum (NISQ) era.