



DCoMEX

Data-driven computational
mechanics at exascale

WORKSHOP ON QUANTUM COMPUTING

Saturday, 2nd of July 2022

Quantum Computing and its synergy with High Performance Computing in Engineering Sciences and Applications

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PROGRAM

10.00 Welcome and Introduction, Andreas Boudouvis (Rector of *NTUA*) -
Vissarion Papadopoulos (*NTUA/MGroup*)

10.20 Introduction to Quantum Computing, George Stavroulakis
(*NTUA/MGroup*)

10.50 The landscape of HPC in Greece, Europe and worldwide, George
Goumas (*CSELab/NTUA*)

11.10 Quantum and HPC technologies and infrastructures, Vangelis Karkaletsis
(*IIT/NCSR Demokritos*)

Coffee Break

**12.00 Using quantum annealers to solve optimization problems and quantum
games to securely transmit cryptographic keys**, Theofilos Andronikos (*Ionian
University*)

12.30 Quantum Computing for Uncertainty Quantification in engineering,
Konstantinos Atzarakis (*NTUA/MGroup*)

**13.00 Panel discussion - Quantum computing: Synergies and Actions in
research and education**, Coordinated by Georgios Nounesis (President of *NCSR
Demokritos*), Petros Koumoutsakos, (*Harvard*) and Nectarios Koziris (Dean of
ECE/NTUA)

Lunch



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