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

Saturday, 2nd of July 2022

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