

A nighttime photograph of a city skyline, likely Tel Aviv, Israel, with several tall buildings illuminated against a dark blue sky. In the foreground, there is a parking lot with several cars and some people walking. The image is partially obscured by a green banner at the bottom.

November 6-8, 2023 David Intercontinental Hotel Tel Aviv Israel

Quantum Computational Electromagnetics

Gabriele Gradoni, Paolo Rocca

This session has a focus on the use of quantum information technologies in computational electromagnetics and related applications. New quantum computation architectures enable the analysis and design of large electromagnetics systems. This requires the reformulation of electromagnetics theories into quantum circuits that are available in current implementations of quantum computers. The session invites contributions describing how quantum mechanical effects spark new electromagnetics technologies and describing how electromagnetics engineering benefits from quantum advantage provided by quantum information methodologies.