

ICAIRA 2026

1st INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE RESEARCH

AND APPLICATIONS

Prof. Dr. Hadi KANAAN

Saint-Joseph University of Beirut, Lebanon

Abstract

Title: Advanced Power Electronics for Power Quality and Smart Energy Routing in Modern Distributed Power Systems

The swift shift toward cleaner and more sustainable energy systems is reshaping how electricity is produced, delivered, and utilized. Central to this evolution are advanced power electronics, which enable efficient energy conversion, adaptable control, and intelligent management within modern power grids and electric transportation networks. This talk highlights recent advancements in power electronic technologies that are driving the development of smart grids, facilitating renewable energy integration, and supporting the electrification of transportation.