

THE DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING SPEAKER SERIES

PRESENTS

Recent Advances in Multi-port Solar Photovoltaics and Energy Storage Systems



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Room: **Zoom*** (Meeting ID# 976-269-9678; Passcode: K91Bwy
<https://zoom.us/j/9762699678?pwd=RUp5ZmN3cHUyQ1FvUExVQjVSc1hVUT09>)

LECTURE ABSTRACT

In this talk, Dr. Batarseh will discuss the emerging technologies in solar PV and energy storage systems. Recent growth in PV and future energy storage systems will be presented including research advances in three-port inverters with battery integration. He will discuss emerging 'PV + storage' system integration of dual and four PV LLC resonant converter topologies based on GaN devices. An overview of other active research projects in grid control and energy storage integration at the Florida Power Electronics research group at the University of Central Florida.

SPEAKER BIOSKETCH

Dr. Issa Batarseh is currently a Professor of electrical engineering in the Department of Electrical and Computer Engineering at the University of Central Florida (UCF) and serving as the director of the Florida Power Electronics Center. His research interests focus on power electronics and high-frequency, smart grid-tied PV energy conversion systems. His research team has been leading the design, development, and commercialization of smart micro-inverters and EV chargers. He has co-founded three start-up companies. He is a Fellow of the IEEE and AAAS, member of the National Academy of Inventors (NAI) and has been inducted into the Florida Inventors Hall of Fame. Dr. Batarseh is a Registered Professional Engineer in the State of Florida.

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