Special Session on

Multi-Input DC-DC Converters for Hybrid Energy System

Organized and co-chaired by:

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Call for Papers

Technical Outline of the Session and Topics:

A hybrid energy system comprises various generating and storage elements on a common platform to promote the system’s overall advantages compared to a single source-based system. It may be hybrid electric vehicles (HEVs), renewable penetrated charging stations of EVs, renewable-based grid, grid-connected EVs etc. Multi-input DC-DC converters connect more than one source to reduce the system complexity and enhance the overall system efficacy. The multi-input DC-DC converter can be electrically coupled, magnetic coupled and electro-magnetic coupled. This special session is organized to motivate researchers to design multi-input DC-DC converters for the effectual operation of hybrid energy systems.

Topics of the Session include, but are not limited to:

- DC-DC converters for electric vehicles (EVs)
- Grid-tied EVs charging scheme
- Grid to vehicle and vehicle to the grid system
- Role of power electronics in designing of charging stations
- Power extraction from renewable energy sources (RESs)
- Power electronic assisted hybrid renewable energy systems
- Battery management system
- Role of converters to obtain sustainable future

Author’s schedule:

Deadline for submission of special session papers: April 15, 2024
Notification of acceptance: June 10, 2024
Deadline for submission of final manuscript: July 01, 2024
Early submission is highly encouraged for early decision notifications!

All the instructions for paper submission are included in the conference website:

www.iecon-2024.org