



# ANNUAL CONFERENCE OF THE IEEE INDUSTRIAL ELECTRONICS SOCIETY

Chicago | Illinois, November 3-6, 2024

**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](http://www.iecon-2024.org)



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