



ANNUAL CONFERENCE OF THE IEEE INDUSTRIAL ELECTRONICS SOCIETY

Chicago | Illinois, November 3-6, 2024

Special Session on

High Power Electric Vehicles: Advances in Design, Operation and Charging

Organized and co-chaired by:

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Call for Papers

Technical Outline of the Session and Topics:

The electric vehicle (EV) technology is gaining importance in heavy vehicles industry. Operation and charging of high power EVs require integration of renewable sources, battery energy storage and grid. There has been a tremendous growth in the EVs design, operation and charging methods, over past few years. It involves drive trains, high power electronics, smart and wireless EV charging, high density battery packs, integration of renewables, newer storage devices, hybrid EV etc. Nevertheless, need of much innovations in this technology is required to profligate the high power EVs. This special session intends to collect scientific and technical papers dealing with advances in high power EVs to promote net zero carbon emission. The focus of this special session is to address the requirement of state of art research, recent development and advanced solutions related to medium to heavy EVs operation and charging, challenges and future directions. We are inviting researchers from both academia and industry to submit original and unpublished work not currently under review to this special session.

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

- Medium to high power EVs operation.
- High power drive trains
- High density battery packs
- Smart and fast charging stations
- Multiport EV chargers
- High power electronics in EVs
- Hybrid EVs.
- Renewable sources and energy storage in EVs

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