



ICICC-2023
**6th International Conference on Innovative Computing and
Communication**

Organized by Shaheed Sukhdev College of Business Studies, New Delhi, India
On 17-18th FEBRUARY 2023.

******* CALL FOR PAPERS *******

SPECIAL SESSION ON

[Recent Advancement in Integration of Renewable Energy to the Grids: Techniques, Challenges, Applications.]

SESSION ORGANIZERS:



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SESSION DESCRIPTION:

[In recent years renewable energy is the key source in the power and mobility sectors. The integration of multiple renewable energy sources and also the bio-inspired fuels with the grid power have gained popularity for effective energy utilization. Power electronic devices and the smart grids represents some of the most critical elements for efficient and reliable operation for application in all-electric hybrid energy systems. The electric hybrid energy systems have played a key role in microgrids and zero-emission transportations, to this end, hybridization in electric energy systems is a trending area of research which add-ons the advancements in power electronic converters have gained popularity not only to achieve compact integration hybrid electric energy systems, but also higher efficiency and power density. Over the past few years, several innovations have taken place. In order to address these challenges, there is also need of a cyber-physical microgrids to develop new methods by taking into account underlying and advanced techniques such as multi-agent systems, artificial intelligence-based control, big data cloud computing and management, and so on. With these opportunities for improvement in mind, this special session aims to attract the latest developments in innovative control approaches, bio-fuel, optimization theory, energy management for cyber-physical microgrids, multi-port power converters and their applications to facilitate exchange of experiences to advance this field.

RECOMMENDED TOPICS:

Topics to be discussed in this special session include (but are not limited to) the following:-

- 1. Integration of renewable energy with the grid.
- 2. Artificial Intelligence based Controlled Grids
- 3. Advancement in different converter topologies
- 4. Optimization and Control Techniques involved in the renewable energy
- 5. Cyber security in the microgrids
- 6. Energy management and costing in the renewable power sectors.
- 7. Advancements in the vehicle to grid & EV applications
- 8. Bio fuel driven localized grids.

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **[Recent Advancement in Integration of Renewable Energy to the Grids: Techniques, Challenges, Applications]** *on or before [30th October 2022]*. All submissions must be original and may not be under review by another publication. INTERESTED AUTHORS SHOULD CONSULT THE CONFERENCE'S GUIDELINES FOR MANUSCRIPT SUBMISSIONS at http://icicc-conf.com/paper_submission.html. All submitted papers will be reviewed on a double-blind, peer review basis.

NOTE: While submitting paper in this special session, please specify **[Recent Advancement in Integration of Renewable Energy to the Grids: Techniques, Challenges, Applications]** at the top (above paper title) of the first page of your paper.

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