



# 5th IEEE International Conference on Sustainable Energy and Future Electric Transportation (IEEE SeFet 2025)

09 July - 12 July, 2025, MNIT Jaipur, Rajasthan, India

Call for Papers for the Special Session (SS01)

## Advances in Solar Photovoltaics: Design, Reliability, Integration, Applications, and Sustainability

### Topics

- Photovoltaic (PV) reliability, system performance and degradation analysis in PV systems;
- Design and innovation of PV solar systems;
- PV resource assessment and forecasting;
- Control and optimization of PV power generation;
- Energy storage solutions for PV grid integration;
- Use of AI and machine learning to manage PV intermittency;
- Specialized applications: agrivoltaics, aquavoltaics, building-integrated photovoltaics (BIPV), photovoltaic-thermal (PVT) systems, Floating PV systems, Canal-top PV systems, Solar-Driven Green Hydrogen and other related application of PV;
- Assessment of the environmental impact of PV systems and sustainability practices;
- Advanced modeling and simulation of PV systems;
- Levelized Cost of Energy (LCOE) calculations and Economic Evaluations.

### Special Session Organizers



**Dr. Manish Kumar**

Assistant Professor, Himachal Pradesh University Shimla, Shimla, India



**Dr. Shiva Gorjian**

Associate Professor, Fraunhofer Institute for Solar Energy Systems ISE, Germany



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Associate Professor, Vellore Institute of Technology (VIT) Vellore, Vellore, India



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### Queries on Special Session—Contact Us

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### Submission Portal

After login, select Special Session (SS 01) “Advances in Solar Photovoltaics: Design, Reliability, Integration, Applications, and Sustainability”



**Submission Deadline**

**30 January 2025**

Conference Website

[www.sefet.in](http://www.sefet.in)

All presented papers will be considered for further review and publication in IEEE Transactions on Industry Applications and IEEE Industry Applications Magazine.