



Annual International Symposium on Industrial Electronics (ISIE) 2023

Special Sessions on

“Advanced Control of Grid-Connected Converters for Distributed Generation and Power Quality”

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Call for Papers

Theme:

Renewable sources, such as photovoltaic panels, wind generators and fuel cells, are usually connected directly to the grid for cogeneration. This connection is made through power electronics interfaces that should ensure high stability, voltage regulation, power flow control, and low electromagnetic emission, along with high power density, low cost and high reliability. In some applications where high power level is required, the switching frequency of the power semiconductors is limited and the use of multilevel or interleaved converters becomes mandatory in order to get an acceptable power quality. This session addresses the issues of

advanced control techniques applied to such converters to improve their performance, efficiency, reliability and cost-effectiveness.

Topics of interest include, but are not limited to:

1	Advanced control of multilevel inverters
2	Advanced control of power electronics in DC grids
3	Grid-connectivity control requirements
4	Control of paralleled or interleaved topologies
5	Modeling and model-based control of switch-mode power converters
6	Optimal control in hybrid cogeneration systems
7	Predictive control of power converters
8	Intelligent control of power converters
9	Power quality control in renewable energy systems
10	Real-time control and simulations of high-power converters

Submissions Procedure:

All the instructions for paper submission are included in the conference website:
<https://2023.ieee-isie.org/>

Deadlines:

Full paper submission:	January 31, 2023
Paper acceptance notification:	April 15, 2023
Camera-ready paper submission:	April. 30, 2023