



## Enrollment Notice of 2023 Asian PhD School on Advanced Power Electronics

The Asian PhD School on Advanced Power Electronics is an annual summer school fostering a series of tutorials/lectures on the frontiers of science and technology in the power electronics field. 2023 Asian PhD School on Advanced Power Electronics is hosted by Harbin Institute of Technology, technically co-sponsored IEEE Power Electronics Society, China Electrotechnical Society, and China Power Supply Society. It will be held in **Institute of Technology, Harbin, China from Aug 30 – Sep 3, 2023**. There are ten instructors for the 2023 Asian PhD School. Each of them will give a tutorial about the development trends and state-of-art research results of a specific topic in power electronics. Each tutorial is scheduled on a half-day basis for three hours. Detailed information is as follows.

**Time** Aug. 30-Sep. 3, 2023

**Language** English

**Venue** Harbin, Heilongjiang Province, China

**Form** On-site/online hybrid teaching

Topic	Instructor
Recent Advances on High-Power DC/DC Converters for DC Generation, Distribution, and Transmission	<b>Dianguo Xu</b> IEEE Fellow, IEEE TPEL Co-EIC, Professor of Harbin Institute of Technology
Variable Inductors for Power Electronics Applications	<b>Marcos Alonso</b> IEEE Fellow, IEEE TPEL Co-EIC, Professor of Universidad de Oviedo
Advanced Modulation Techniques to Optimize the Operation of Power Converters	<b>Franquelo Leopoldo</b> IEEE Fellow, Professor of University of Seville
Stability and Control of Grid-Interactive Power Converters	<b>Xiongfei Wang</b> IEEE Fellow, Professor of KTH Royal Institute of Technology
Second Harmonic Current Reduction Techniques for Two-Stage Single-Phase Power Converters	<b>Xinbo Ruan</b> IEEE Fellow, Professor of Nanjing University of Aeronautics and Astronautics
Electromagnetic time reversal for detecting partial discharge in power cables	<b>Alistair Duffy</b> IEEE Fellow, Professor of De Montfort University
Classical and Advanced Current-Fed Soft-Switching DC/DC Converters	<b>Akshay Rathore</b> IEEE Fellow, Professor of Nanyang Technological University
Sensorless and Sensor-Reduction Technology in Electric Drives	<b>Jung-Ik Ha</b> IEEE Fellow, Professor of Seoul National University
High-performance Control of Inverters interfacing Renewable Energy Sources to Utility Grid and Loads	<b>Sanjib Panda</b> IEEE Fellow, Professor of University of Singapore
Advanced Coordinative Control for Distributed Energy Source Converters and Microgrid	<b>Jinjun Liu</b> IEEE Fellow, Vice President of IEEE PELS, Professor of Xi'an Jiaotong University

## Hybrid Teaching and Learning Arrangement

The PhD School is the online/offline hybrid mode, the online mode is based on Zoom. All the lectures will be performed through on-line live broadcast, and will be video recorded and kept accessible for the participants for playbacks on-demand in the following 2 weeks.

## Eligible Applicants of Enrollment

- 1) PhD students in power electronics area from Asian universities;
- 2) Young faculties from Asian universities who got their PhD degrees in the past 10 years;
- 3) Young engineers based in Asia who got their PhD degrees in the past 10 years.

Note: Applicant number will be considered under the capacity limit of the school to ensure the quality of communications for both on-site and on-line. The applicants will be lined up once the eligible applicants are fixed, in a first-come-first-service sequence for the remaining seats under the limit. Official notifications of enrollment results will be sent out by e-mail before Aug. 27<sup>th</sup>.

## Registration Policy

- 1) 150USD (or 1080CNY) for on-site participants, and 90USD (or 650CNY) for online participants.
- 2) Registration fees will be fully refunded for IEEE Power Electronics Society (PELS) members once complete the school. For members of CES and CPSS who have completed all courses, but not members of PELS, half of the registration fee paid will be refunded after the course.
- 3) Please refer to the school website for the details of the registration guidelines.

## Registration Website

[http:// pels2023.hit.edu.cn](http://pels2023.hit.edu.cn)(Opening from July 25<sup>th</sup>)

## Contact E-mail

[pels2023@hit.edu.cn](mailto:pels2023@hit.edu.cn)

## Sponsor

Harbin Institute of Technology (HIT)

## Technical Co-Sponsor

IEEE Power Electronics Society, China Power Supply Society,  
China Electrotechnical Society

## Organization

School of Electrical Engineering and Automation of HIT

