

## Call for papers

The International Conference on Power, Energy and Cybernetics (ICPEC) is an initiative to connect students, researchers and engineers all over the world who are studying, researching and working on the fields of Power, Energy and Control. It is intended to be organized biannually for scholars to share their wisdoms and visions in the related fields.

This year, the 2<sup>nd</sup> International Conference on Power, Energy and Cybernetics 2023 (ICPEC 2023) is hosted by Thanh Dong University, Hai Duong, Vietnam. It is held on December 16<sup>th</sup> and 17<sup>th</sup>, 2023 as a two-day, hybrid academic conference aiming to attract original research papers and short letters in various topics in the fields. The scope covers recent cutting-edge technologies and applications in power electronics, electric drives, power system, control, robotics, etc.

### ✔ IMPORTANT DATES

Abstract submissions:	<b>Aug. 31<sup>st</sup> 2023</b>
Notification of acceptance:	<b>Oct. 1<sup>st</sup> 2023</b>
Final paper submissions:	<b>Nov. 1<sup>st</sup> 2023</b>
Registration deadline:	<b>Nov. 1<sup>st</sup> 2023</b>
Conference date:	<b>Dec. 16<sup>th</sup> 2023</b>

### ✔ ORGANIZATION COMMITTEE

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### ✔ PAPER SUBMISSIONS

The following paper categories are welcomed:

Regular papers should be at least four pages length describing original research works and are not being considered for publication elsewhere. All accepted regular papers will be published on the **Thanh Dong University Journal of Science and Technology (ISSN: 2734-9500)** after presented at ICPEC 2023.

Short papers should not be longer than two pages summarizing the research works. Originality is recommended.

Potential authors are recommended to submit an extended abstract of no more than two pages including figures, tables and references summarizing their research works. For more detail, please visit our submission portal at:

<https://easychair.org/my/conference?conf=icpec20230>

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## TOPICS

Topics of interest include, but are not limited to:

### Track #1: Power Converter Design and Control

- + Modulation and control of power converter
- + Advanced converter topology
- + Wide-bandgap devices
- + Wireless power transfer
- + Applications of power converters.

### Track #2: Electric Machines and Control

- + Motors and actuators design
- + Drive trains and motion control
- + Advanced material for electric motors
- + Advanced control techniques of electric motors.

### Track #3: Control Theory and Applications

- + System modelling, estimation, identification and simulation
- + Analysis and design of control systems
- + Practical implementation.

### Track #4: Robotics, AI and Mechatronics

- + Robot learning
- + Object recognition
- + Localization
- + Micro/nano/humanoid/soft robot
- + Medical robotics.

### Track #5: Transmission and Distribution System Analysis

- + Power flow
- + System fault performance and protection techniques
- + Impact of DERs on power grids
- + Modeling and simulation tools/methods.

### Track #6: Power System Operation and Control

- + System reliability and stability
- + Energy management systems
- + Forecasting
- + Resilient and disaster responses
- + Micro-grids and DERs
- + Renewable energy.

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