

# ICPE 2023-ECCE Asia

11<sup>th</sup> International Conference on Power Electronics - ECCE Asia

Green World with Power Electronics

May 22 (Mon.) ~ 25 (Thu.), 2023

ICC Jeju, Jeju, Korea

## Call for Papers

The 11<sup>th</sup> International Conference on Power Electronics-ECCE Asia (ICPE 2023-ECCE Asia) will be held in May 22~25, 2023 at International Convention Center Jeju (ICC Jeju), Jeju, Korea.

ICPE 2023-ECCE Asia is organized by KIPE (The Korean Institute of Power Electronics), and co-sponsored by IEEE PELS (IEEE Power Electronics Society). Since our first conference in 1989, ICPE has grown into one of the most authoritative conferences while contributing to the continued advancement of power electronics technologies.

This conference will, once again, provide a variety of programs including distinguished presentations, networking events, and tours to benefit from many fruitful and enriching discussions as well as to initiate collaborations across disciplines for the advancement of your research.

We wish you all to participate in the ICPE 2023-ECCE Asia in Jeju, Korea.

### Organizer



### Co-Sponsor



### ECCE-Asia Cooperation



### Technical Co-Sponsors



## Important Dates

- **Digest Submission (Extended Deadline) Nov. 14, 2022**
- Acceptance Notification Jan. 9, 2023
- Final Manuscript Submission Mar. 10, 2023

## Topics

The topics will cover research and activities across all fields related to power electronics including, but not limited to, the following topics.

- Power Devices (Si / Wide band gap) and Applications
- Passive Components, Materials, Packaging, and Integration
- Modeling, Simulation, and Control
- Uncontrolled Rectifiers and AC/DC Converters
- AC/AC Converters
- DC/AC Inverters
- DC/DC Converters
- Multilevel Power Converters
- Electric Machines, Actuators, and Sensors
- Motor Control and Drives
- Sensorless and Sensor-Reduction Control
- Renewable Energy and Distributed Generation Systems
- Smart Grid and Microgrid
- DC Power Systems (HVDC, MVDC, LVDC)
- Energy Storage and Management Systems
- Power Electronics for Utility Interface
- Power Electronics for Transportation Electrification
- Wireless Power Transfer
- Reliability, Diagnosis, Prognosis, and Protection
- Big Data and Machine Learning Applications in Power Electronics Technology
- Other and Emerging Topics in Power Electronics

## Digest Preparation

Digests must be original material and not have been previously presented or published. All materials should be electronically submitted in PDF file through the conference website no later than **Nov. 14, 2022**. Abstract should be within 500 words and be typed in the on-line system including paper title, list of authors, affiliations, and corresponding e-mail. Digest should be written in 4 pages at maximum, single column, single-space on A4 sized format including figures and tables. Digest should be headed by title of paper and choice of topic category. For the peer review, please do not indicate authors' name and references on the digest. Furthermore, all papers presented will be included in the IEEE Xplore. Sample Template and more detailed information can be found on our website at **www.icpe-conf.org**.

## \* Publication

Accepted papers through peer review by Technical Program Committee will be included in IEEE Explore and can be submitted to the IEEE Transactions on Power Electronics, IEEE Transactions on Industry Applications, and Journal of Power Electronics (Impact Factor: 1.13) for publication.

## \* Tutorials

Tutorial program is intended to disseminate information on recently emerging topics and trends to conference attendee. Several highquality tutorials will be offered on Monday, May 22, 2023. Prospective lecturers are invited to send a proposal before **Oct. 28, 2022**, and the proposal form and detailed information will be provided on the website.

## \* Organized Sessions

Organized sessions are specialized events to be held during the conference as a set of oral presentations that are highly specialized in some special theme. We invite proposals for organized sessions relevant to the themes of the conference. (**Proposal submission deadline: Oct. 14, 2022**) The proposal form and guidelines will be updated on the website.

## \* Industry Sessions

Industry sessions are arranged for industry participants to present and exchange their latest achievements on power electronics and its applications. Speakers are invited to make a presentation only without submitting a formal paper. The proposal submission deadline is **November 16, 2022**. Presenters can submit either an individual presentation proposal or an overall session proposal. The proposal form and detailed information will be provided on the website.

## \* Exhibition

Industry Exhibition will run in conjunction with the conference program. The exhibition has been designed to provide the substantial promotional opportunities to participating companies and organizations. There are various opportunities for your company/institution to be involved in ICPE 2023-ECCE Asia.

## \* Registration

All conference participants are recommended to register online at the official website. Participants who complete the pre-registration process will benefit from a reduced registration fee and will receive the entire conference material package upon their arrival. The detailed information will be available at the website.

## \* Visit Jeju, Korea in 2023!

Located in the southwest of the Korean Peninsula, Jeju Island is a popular tourist destination among domestic and international travelers alike for its beautiful and pristine natural scenery. Jeju Island is a unique place worldwide, holding the honors of the natural science area such as UNESCO World Biosphere Reserve [2002], UNESCO World Natural Heritage Site [2007] and UNESCO World Geoparks Network [2010].



## \* Committees

### ■ General Chair

Dong-Choon Lee (Yeungnam Univ., Korea)

### General Co-Chair

Liuchen Chang (Univ. of New Brunswick, Canada)

### ■ Organizing Committee

**Chair** Yongsug Suh (Jeonbuk Nat'l Univ., Korea)

**Co-Chair** Brad Lehman (Northeastern Univ., USA)

**Vice-Chairs** Honnyong Cha (Kyungpook Nat'l Univ., Korea)

Sungwoo Bae (Hanyang Univ., Korea)

Jong-pil Lee (KERI, Korea)

Kyung-Hee Han (Halla Univ., Korea)

Jonghoon Kim (Chungnam Nat'l Univ., Korea)

Sung-Jin Choi (Univ. of Ulsan, Korea)

### ■ Technical Program Committee

**Chair** Seung-Ho Song (Kwangju Univ., Korea)

**Co-Chairs** Yong Kang (Huazhong Univ. of Science and Tech., China)

Junichi Itoh (Nagaoka Univ. of Tech., Japan)

Yaow-Ming Chen (Nat'l Taiwan Univ., Taiwan)

Pericle Zanchetta (Univ. of Nottingham, UK)

Axel Mertens (Leibniz Univ. Hannover, Germany)

Pavol Bauer (Delft Univ. of Tech., Netherlands)

**Vice-Chairs** Jin Hur (Incheon Nat'l Univ., Korea)

Jung-Ik Ha (Seoul Nat'l Univ., Korea)

Kyo-Beum Lee (Ajou Univ., Korea)

Hong-Je Ryoo (Chung-Ang Univ., Korea)

Rae-Young Kim (Hanyang Univ., Korea)

Young-Doo Yoon (Hanyang Univ., Korea)

Younghoon Cho (Konkuk Univ., Korea)

### ■ International Steering Committee

**Chair** Sewan Choi (Seoul Nat'l Univ. of Science & Tech., Korea)

**Members** Vivek Agarwal (Indian Inst. of Tech. Bombay, India)

Kan Akatsu (Yokohama Nat'l Univ., Japan)

Frede Blaabjerg (Aalborg Univ., Denmark)

Huang-Jen Chiu (Nat'l Taiwan Univ. of Science and Tech., Taiwan)

Prasad Enjeti (Texas A&M Univ., USA)

Noriko Kawakami (TMEIC, Japan)

Ralph Kennel (Technische Universität München, Germany)

Johan W. Kolar (ETH Zurich, Switzerland)

Yen-Shin Lai (Nat'l Taipei Univ. of Tech., Taiwan)

Hui Li (Florida State Univ., USA)

Tsong Juu Liang (Nat'l Cheng Kung Univ., Taiwan)

Jinjun Liu (Xi'an Jiaotong Univ., China)

Brendan McGrath (RMIT Univ., Australia)

Van Nho Nguyen (Ho Chi Minh City Univ. of Tech., Vietnam)

Sanjib Kumar Panda (Nat'l Univ. of Singapore, Singapore)

Xinbo Ruan (Nanjing Univ. of Aeronautics and Astronautics, China)

Bulent Sarlioglu (Univ. of Wisconsin-Madison, USA)

Zheng Shen (Simon Fraser Univ., USA)

Jian Sun (Rensselaer Polytechnic Inst., USA)

Shinzo Tamai (TMEIC, Japan)

Dehong Xu (Zhejiang Univ., China)

Dianguo Xu (Harbin Inst. of Tech., China)

Zhengming Zhao (Tsinghua Univ., China)

### ■ Advisory Committee

Jaeho Choi (Chungbuk Nat'l Univ., Korea)

Heung-Geun Kim (Kyungpook Nat'l Univ., Korea)

Seung-Ki Sul (Seoul Nat'l Univ., Korea)

Dong-Wook Yoo (KERI, Korea)

Eui-Cheol Nho (Pukyong Nat'l Univ., Korea)

**ICPE 2023-ECCE Asia Secretariat: Planex Lab., Inc.**

A. #703, 245, Hannuri-daero, Sejong-si, 30127, Republic of Korea

T. +82-44-862-7962 / F. +82-44-862-7963

E-mail: icpe@icpe-conf.org / Website: www.icpe-conf.org