



ICCAS 2023

The 23rd International Conference on
Control, Automation and Systems

October 17(Tue)-20(Fri), 2023

Yeosu Venezia Hotel & Utop Marina Hotel, Korea

Paper Submission
Deadline
May 31, 2023

Call for Papers – Open Invited Session

Advances in Power Converters, Control, and Applications for Motor Drives and Energy Systems

Chairs: Prof. Nho Van Nguyen (Ho Chi Minh City Univ. of Tech.)
nvnho@hcmut.edu.vn

A/Prof. Gia Minh Thao Nguyen (Toyota Technological Institute)
nguyen.thao@toyota-ti.ac.jp

The recent development of high-efficient and power-density converters in motor drives and energy systems has been attractive owing to the emergence of new technologies such as wide-bandgap power semiconductor devices (SiC/GaN) and advanced topologies of power converters. The model-based and intelligent control methods for converters and motor drives also provide an effective mean to considerably reduce the development time and tackle the design complexity.

Thus, the goal of this session is to discuss and share advanced techniques and studies, consisting of analysis, simulation and experiments, to resolve design and control issues in high-efficient power converters and motor drives as well as related applications. Topics of interest include, but are not limited to: Advanced topologies and control of power converters and motor drives; Power converters using wide-bandgap semiconductors; Evaluation of motor drives using wide-bandgap devices; Design and control of quick battery chargers; Magnetic cores for high-frequency applications; Control of renewable energy systems and EVs.

We welcome contributions on this research topic. Please visit our website for details.

<https://2023.iccas.org>