

Call For
Papers

ICEMS 2024

Fukuoka

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The 27th International Conference on Electrical Machines and Systems

November 26-29, 2024

Fukuoka Institute of Technology, Fukuoka, Japan

Important Dates

One-Page Digest **March 29, 2024**

Notification of Acceptance **June 28, 2024**

Final Submission and Author Registration Deadline **August 30, 2024**



Organized by the IEEJ Industry Applications Society (IEEJ-IAS)



Co-Organized by the China
Electrotechnical Society (CES)



Co-Organized by The Korean Institute of Electrical Engineers
Electrical Machinery and Energy Conversion Systems (KIEE-EMECS)



Technically Co-Sponsored by the IEEE
Industry Applications Society (IEEE-IAS)



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Outline of Conference

The Industry Applications Society of the Institute of Electrical Engineers of Japan (IEEJ) is pleased to announce that the 27th International Conference on Electrical Machines and Systems (ICEMS2024) will be held during November 26-29, 2024, in Fukuoka, Japan. The aims of the conference are provision of an opportunity for scientists and experts to present the latest research developments in the field of electrical machines and their related systems (rotating and other machines, motor drives, power electronics, motion control, energy systems, and E-mobility) and exchange of useful information and experiences not only in cutting-edge technologies but also application specific technologies. Started in Beijing in 1987, the ICEMS is now established as a regular annual event. The ICEMS2024 has a technical co-sponsorship with the IEEE Industry Applications Society. All papers presented at the ICEMS2024 will be posted on the IEEE Explore Digital Library. Selected papers will be recommended to the review process for the possible publication in IEEJ Journal of Industry Applications and the IEEE Transactions on Industry Applications.

Venue

Fukuoka, located in the southwest of Japan, is a commercial and industrial hub city with a cosmopolitan atmosphere and convenient access. An international airport and excellent infrastructure make the city easily accessible. Despite its size and popularity, it boasts a laid-back culture, delicious food, and exciting landscapes including beautiful green spaces and waterfront areas. The conference venue is FIT Hall & Arena in the beautiful campus of Fukuoka Institute of Technology. It can accommodate over 1000 guests and can be reached in about 15 minutes by train from Hakata, Fukuoka's largest terminal station. We hope you will enjoy various technical sessions, company exhibitions, events, and deepen engagement between participants.

Committee

Conference Chair Prof. S. Yamamoto
Organizing Committee Chair Prof. T. Noguchi
International Steering Committee Chair Prof. T. Kosaka
Technical Program Committee Chair Prof. K. Ohya
Conference Co-Chair Prof. A. Chiba

Secretariat

c/o EC Inc.
secretariat@icems2024.com

TOPICS

I Electric Machines and Field Analysis

- 01 Transformers and Power Apparatus
- 02 Induction Machines
- 03 Synchronous Machines
- 04 Permanent Magnet Machines
- 05 Reluctance Machines
- 06 Switched Reluctance Machines
- 07 Linear Drives and Magnetic Levitations
- 08 Flux Switching Machines
- 09 Variable Magnetic Flux Motors
- 10 Flux Modulation Machines
- 11 Multiphase Machines
- 12 Bearingless Machines
- 13 Superconducting Machines
- 14 Special Machines and Actuators
- 15 Magnetism and Field Analysis
- 16 Noise, Vibration and Reliability
- 17 Loss, Thermal and Cooling
- 18 Other Areas in Electric Machines

II Motor Control, Drives

- 01 Induction Motor Control and Drives
- 02 Synchronous Motor Control and Drives
- 03 Synchronous Reluctance Motor Control and Drives
- 04 Switched Reluctance Motor Control and Drives
- 05 Linear Motor Control and Drives
- 06 Motion Control and Servo Systems
- 07 Sensorless Control of Induction Machines
- 08 Sensorless Control of Synchronous Machines
- 09 Sensorless Control of Synchronous Reluctance Machines
- 10 Sensorless Control of Switched Reluctance Machines
- 11 Sensorless Control of Linear Motors
- 12 Other Areas in Motor control and Motor Drives

III Power Electronics

- 01 Automotive Power Electronics, EV Chargers
- 02 Electric Vehicle to Grid (V2G) and Infrastructures
- 03 Power Converters of Motor Drives
- 04 Power Converters of Renewable Energy Systems
- 05 AC/DC, DC/DC, DC/AC Converters
- 06 DAB Converters
- 07 Multi-level Converters
- 08 Matrix Converters
- 09 Modulation Techniques for EMI
- 10 Reliability, Diagnostics and Tolerance
- 11 Power Electronic Devices (Si and Wide Band Gap) and Applications
- 12 Other Areas in Power Electronics

IV Energy Systems, E-Mobility and AI Convergence

- 01 Renewable Energy Systems
- 02 Batteries Modeling and Management Systems, Energy Storage Systems
- 03 Smart Grids, FACTS and Microgrids
- 04 Power Grid Stabilization
- 05 Hybrid/Electric Vehicles and Electric Propulsion Systems
- 06 AI Applications for Electric Machines and Drives
- 07 Wireless Power Transfer Systems and Applications
- 08 Other Areas in Energy Systems and E-Mobility

V Special Session

To be announced!



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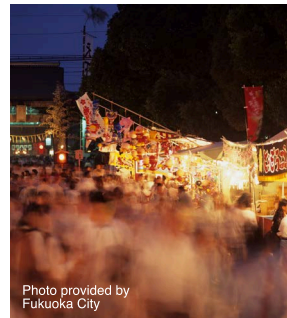


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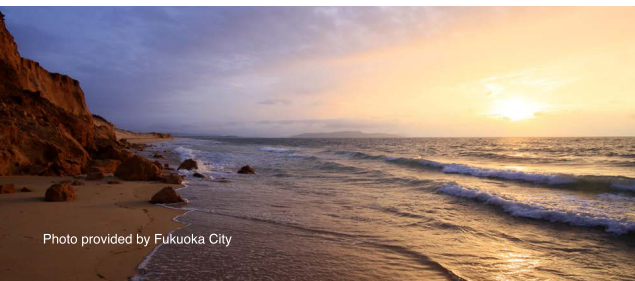


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