



ICRERA 2024

13TH INTERNATIONAL CONFERENCE ON RENEWABLE ENERGY
RESEARCH AND APPLICATIONS

Call for Papers !

2024/11/9 Sat. ~ 2024/11/13 Wed.
DejimaMesse, Nagasaki, Japan

<https://www.icrera.org>

1 About ICRERA2024

2024/11/9~2024/11/13, Nagasaki, Japan



Venue:Dejima Messe Nagasaki in Nagasaki, Japan
Address: 4-1, Onoue-machi, Nagasaki City,
Nagasaki Prefecture, Japan





On behalf of the organizing committee of ICRERA 2024, we would like to kindly invite to attend ICRERA 2024 by submitting papers, opening special session and giving tutorials.

Please visit the www.icrera.org for more information.

We are looking forward to meeting you at ICRERA 2024 in Nagasaki, Japan.

Organizations



Technical Co-Sponsors

Mr. Yoshinobu Higashi, Honorary Chair, ICRERA, Former Japan Ambassador to Romania		Mr. Hidehiko Kikuchi, Honorary Chair, ICRERA, Former Senior Advisor to TMEIC, Japan
Prof. FUJIO KUOKAWA General Chair, ICRERA Nagasaki Institute of Applied Science, Japan	Prof. ILHAMI COLAK General Co-Chair, ICRERA Nisantasi University, Turkiye	Prof. Takashi Abe General Co-Chair, ICRERA Nagasaki University, Japan

News

- Oral and poster sessions are available.
- Great keynote Speakers
- Over 20 substantial tutorials (Over 20 wonderful people will give lectures over two days.)
- Approximately 20 organized sessions
- Exhibits from approximately 30 companies (TMEIC, NTT-AT, PAYCLE, UPCX, NTT Docomo, Kyowa Kiden, Fudo Giken Kogyo, PAL Structure, Yokogawa Measurement, Smart Energy Research Institute, SIM Engine, Hitachi, Shindengen, ROHM, Potent Semiconductor, Isahaya Electronics, ICOC, JR East, D-SOL, NITTOKU, Mitsui O.S.K. Lines, etc.)
- Banquets, welcome parties, and lunches are also available. It is quite luxurious, including alcohol.



News

- Technical tour on Thursday, November 14th (in addition to TMEIC's new factory, it also includes Gunkan-jima, so you can enjoy it with lunch)

- Students Special!

We have prepared many events such as presentation and poster awards, and a student evening party (beer and wine can be drunk at the exhibition hall). Students who have registered for ICRERA 2024 can attend the tutorials for free.

- One Day Tickets are available to make it easier to enter the exhibition hall.



TMEIC's new factory

Keynote Speakers

- 1-) Prof. Dr. Johann Walter Kolar, Swiss Federal Institute of Technology(ETH)
- 2-) Mr. Masayuki Tobita, Vice President of TMEIC, Japan
- 3-) Prof. Dr. Kan Akatsu, Yokohama National University, Japan
- 4-) Prof. Dr. Huang-Jen Chiu, National Taiwan University of Science and Technology, Taipei
- 5-) Dr. Hitoshi Hayashiya, East Japan Railway Company, Japan

Organized Session(OS)

- Advanced Power Conversion Techniques and Controls for High Performance and Efficiency
- Innovations in Renewable Energy and Energy Efficiency: Advancing Control Systems and Optimization Techniques
- Emerging Trends in Renewable Energy and Smart Urban Solutions
- Advancements DC Microgrids: Architecture, Topology, Control and Applications
- Emerging Technologies for Renewable-Rich Power Grids: Design, Modeling and Control
- Safety, Security and Intelligent control for Renewable Energy Systems and Sources (RESSs) and Applications
- Energy Engineering in Renewable Energy, Electronics, and Communications
- Power Electronics for Highly Efficient Computing
- Emerging Technologies for Power Electronics Reliability: Online Monitoring and EMI, Heat, and Loss Reductions
- Recent research on Hydrogen Energies-From hydrogen generation to its use-
- Report on Research Results of Renewable Energy at Aichi Institute of Technology Eco Power Research Center
- Ocean Renewable Energy and Smart Fishery
- Decarbonization initiatives in the railway field
- Advanced Power Conversion Technologies for Sustainable Energy Systems
- Green Chemistry & Carbon Neutralization
- Robots & Mobility with Sustainable Energy Systems
- Integrated Technologies of Circuit, Device, and Control for High-Performance Solid State Transformers (SSTs)
- Power conversion technologies that contribute to the modernization of power distribution systems

Tutorial (Sat. 9 Nov. & Sun. 10 Nov.)

○General Session

Prof. Hiroo Sekiya (Chiba University)

Prof. Yongheng Yang (Zhejiang University)

Prof. Yen-Shin Lai (Taipei Tech, Taiwan)

Prof. Mehdi Bagheri (Nazabayeve University)

Prof. Youcef Soufi (University Echahid Larbi Tebessi, Tebessa, Algeria)

Prof. Seref Sagiroglu (Gazi University)

Prof. Vitor Fernão Pires (Polytechnic Institute of Setúbal)

Prof. Dr Nurkhat Zhakiyev (Astana IT University, Kazakhstan)

Prof. Elutunji Buraimoh (Clemson University Cape Peninsula University of Technology)

Prof. Innocent Ewean Davidson

Prof. Khaled H. Ahmed (University of Strathclyde) etc.

○IEEE Fellow Session

Prof. Hirofumi Akagi (Tokyo Institute of Technology)

Prof. Kiyoshi Ohishi (Nagaoka University of Technology)

Prof. Yen-Shin Lai (Taipei Tech, Taiwan)

Prof. Adel Nasiri (University of South Carolina, USA)

Dr. Shinzo Tamai (TMEIC)

○Industrial Session

Mr. Tetsuo Tateishi (Rohm) etc.

Topics



Topics within the scope of the conference include the following areas, but not limited to:

- Renewable (Green) Energy Systems and Sources (RESSs) as Wind Power, Hydropower, Solar Energy, Biomass, Biofuel, Geothermal Energy, Wave Energy, Tidal energy, Hydrogen & Fuel Cells, Energy Storage
- New Trends and Technologies for RESSs
- Policies and Strategies for RESSs
- Energy Transformation from Renewable Energy System (RES) to Grid
- Novel Energy Conversion Studies for RESSs
- Power Devices and Driving Circuits for RESSs
- Control Techniques for RESSs
- Grid Interactive Systems Used in Hybrid RESSs
- Performance Analysis of RESSs
- Hybrid RESSs
- Decision Support Systems for RESSs
- Renewable Energy Research and Applications for Industries
- RESSs for Electrical Vehicles and Components
- Artificial Intelligence and Machine Learning Studies for RESSs and Applications
- Computational Methods for RESSs
- Energy Savings for Power Electronics, Vehicular Technology, Electric Machinery and Control, etc.
- New Approaches in Lightings
- Public Awareness and Education for Renewable Energy and Systems
- Reliability and Maintenance in RESSs
- Smart grids and RESSs
- Safety and Security of RESSs
- Renewable Energy Systems in Smart Cities
- Future Challenges and Directions for RESSs
- IoT for RESSs
- Energy Management, VPP(Virtual Power Plant) and ERAB (Energy Resource Aggregation Businesses) for RESSs
- Model based Design and Digital Twin for RESSs

Deadline of ICRERA 2024:

Call For Papers Website URL	www.icrera.org
3 to 5 Pages Long Digest Submission Deadline	August 30, 2024
Notification of acceptance	September 20, 2024
Final submissions due	October 11, 2024
Conference	November 9 – November 13, 2024

e-mail: icrera@gmail.com

Program at a Glance

Program Summary of ICRERA 2024, November 9 – November 13, 2024, Nagasaki, Japan

November 09, 2024 (Saturday)					November 10, 2024 (Sunday)					November 11, 2024 (Monday)					November 12, 2024 (Tuesday)					November 13, 2024 (Wednesday)									
8:00					8:00					8:00	Registration 8:00~9:00				8:00					8:00									
9:00	Registration 9:00~17:00				9:00	Registration 9:00~18:00				9:00	Opening Clemony 9:00 - 10:00				9:00	Keynote Speech 4 Prof. Akatsu 9:00 - 9:50 (50 min)		Sponsor Exhibition 9:00 - 17:00	9:00	Parallel Oral Sessions 9:00 - 10:40 (25 min/paper)		Sponsor Exhibition 9:00 - 14:00							
10:00					Parallel Tutorials 10:00~11:30 (90 min)					10:00	Keynote Speech 1 10:00 - 10:30 (30 min)		Sponsor Exhibition 10:00 - 18:00	10:00	Keynote Speech 5 Dr. Hayashiya 9:50 - 10:40 (50 min)		10:00		Keynote Speech 4 Prof. Akatsu 9:00 - 9:50 (50 min)		Sponsor Exhibition 9:00 - 17:00	10:00	Parallel Oral Sessions 9:00 - 10:40 (25 min/paper)		Sponsor Exhibition 9:00 - 14:00				
11:00					Parallel Tutorials 10:00~11:30 (90 min)					11:00	Keynote Speech 2 Prof. Kolar 10:30 - 11:20 (50 min)			11:00	Coffee Break 10:40 - 11:10		11:00	Keynote Speech 6 Prof. Huang-Jen Chiu 11:10 - 12:00 (50 min)		11:00		Parallel Oral Sessions 11:10 - 12:25 (25 min/paper)		Coffee Break 10:40 - 11:10					
12:00										12:00	Keynote Speech 3 TMEIC Mr. Tobita 11:20 - 12:10 (50 min)			12:00	Lunch 12:00 - 13:00				12:00	Lunch 12:00 - 13:00				12:00	Parallel Oral Sessions 11:10 - 12:25 (25 min/paper)		Sponsor Exhibition 9:00 - 14:00		
13:00					Parallel Tutorials 13:00~14:30 (90 min)					13:00	Parallel Tutorials 13:00~14:30 (90 min)		13:00	Lunch 12:10 - 13:30				13:00	Parallel Oral Sessions 13:00 - 15:05 (25 min/paper)		Sponsor Exhibition 9:00 - 17:00	13:00	Lunch 12:25 - 14:00		Parallel Oral Sessions 14:00 - 16:30 (25 min/paper)				
14:00										14:00			14:00	Parallel Oral Sessions 13:30 - 15:35 (25 min/paper)		Sponsor Exhibition 9:00 - 17:00	14:00	Poster Session 13:30 - 15:00		Industry Session 13:00 - 17:00 (10 min/company)		14:00							
15:00	Parallel Tutorials 15:00~16:30 (90 min)		15:00	Parallel Tutorials 15:00~16:30 (90 min)		15:00	Coffee Break 15:35 - 16:05				15:00	Coffee Break 15:05 - 15:35					15:00	Parallel Oral Sessions 14:00 - 16:30 (25 min/paper)											
16:00			16:00			16:00	Coffee Break 15:35 - 16:05				16:00	Parallel Oral Sessions 15:35 - 17:15 (25 min/paper)		Sponsor Exhibition 9:00 - 17:00	16:00	Poster Session 15:35 - 17:05		Industry Session 13:00 - 17:00 (10 min/company)	16:00	Closing Clemony 16:30 - 17:00									
17:00			17:00			17:00	Parallel Oral Sessions 16:05 - 17:45 (25 min/paper)		Sponsor Exhibition 9:00 - 17:00	17:00	Poster Session 16:05 - 17:35		Student Evening Party 16:00 - 18:00		17:00				Industry Session 13:00 - 17:00 (10 min/company)	17:00									
18:00			18:00			18:00					18:00	VIP Dinner 18:00 - 20:00				18:00													
19:00			19:00			19:00	Welcome Party & Sponsor Exhibition 18:00 - 19:30				19:00	VIP Dinner 18:00 - 20:00				19:00	Banquet 18:30~20:30												
20:00			20:00			20:00					20:00					20:00													



Contact

Local Arrangement

icrera@gmail.com

Conference Web

<https://www.icrera.org>