

Announcement & Call for Papers

The 16th International Green Energy Conference (IGEC-XVI)

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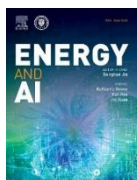
The 5th International Conference on Energy and AI (ICEAI-V)

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Symposium on Chemical Engineering and AI

June 30-July 4, 2024

Ningbo (宁波), China



Organized by

**International Association for Green Energy
Energy and AI, GACCE,
Eastern Institute of Technology, and
Tianjin University**

Conference Website:

www.iage-net.org/igec2024

Objectives

The joint conferences aim to promote pioneering research and innovation in the fields of green energy, socio-economic and environmental impact, chemical engineering, and AI (artificial intelligence) as well as their mutual impact and interaction; to provide a forum for exchanging and sharing the latest technical information, high-quality research results, and new developments in the relevant fields; and to provide opportunities for debating and shaping the future directions and priorities in energy sustainability and security, as well as promoting the R&D and application of chemical engineering and AI technologies to advance green energy, affordable and clean energy, decarbonization, and net-zero emission technologies.

The joint conferences will be valuable to scientists, engineers, and practitioners in the relevant fields of energy, environment, chemical engineering, and AI, for policy making, technical development, management, and social-economic development.

Topics

The joint conferences are soliciting papers and presentations on the topics from all relevant disciplinary areas, including new concepts, experimental studies, and modeling works. The areas of interest include:

- Energy and/or chemical engineering education, policy, and planning
- Energy conversion and management
- Advanced energy and chemical engineering systems
- Hydrogen energy and fuel cells
- Renewable and clean energy technologies
- Energy systems modeling and optimization
- Energy and environment
- Energy and sustainability
- Energy security and decarbonization
- Energy resources and their efficient use
- Alternative and hybrid energy systems
- Energy economics
- Energy and industrial ecology
- Energy and life cycle analysis
- Green power production and cogeneration
- Green and energy efficient buildings
- Environmental impacts and climate change
- Pollutant emission, control and abatement
- Renewable and nuclear energy
- AI for design/synthesis of energy mat. and chemicals

- AI for energy and chemical process/system control/optimization
- AI for safety, reliability and resilience of energy/chemical devices and systems
- AI for economic and sustainability assessment of energy innovation
- AI-based automation and adaptive optimization for energy/chemical systems
- Energy storage techniques and chemical engineering
- Digital twin for complex energy processes & systems
- Data science and cyber security in energy research and chemical engineering

Format

The joint conferences will be composed of the following events and activities:

- Plenary lectures by distinguished scholars.
- Keynote lectures by invited speakers.
- Contributed abstracts and papers orally presented in technical sessions.
- Panel sessions on special topics.
- Social events for the conference delegates.

Proceedings

All papers will be reviewed by the **Technical Committee** under the direction of the **International Advisory Committee**. Qualified works will be published in the conference proceedings, which will be available to the conference registrants.

Journal Publications

High-quality original papers of archival value will be considered for publication in Special Issues of prestigious international journals, including:

- **International Journal of Green Energy**
- **Frontiers in Thermal Engineering**
- **Energy and AI**
- **Energy Storage and Saving**

Important Dates (Beijing Time)

Feb. 28, 2024: Abstract/Paper submission due
Apr. 30, 2024: Revised abstract/paper due
Apr. 30, 2024: Early bird registration due

Registration Fee (USD)

Regular delegate: US\$600 (US\$500 before Apr. 30, 2024)
Student delegate: US\$400 (US\$300 before Apr. 30, 2024)
Each presenter can present maximum two papers

For questions, please contact Conference Secretary via email igec_iceai@outlook.com

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Correspondence

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