

AEIT International 2024 Annual Conference

116th
Edition

ENERGY and ENVIRONMENT FESTIVAL



Call for Papers

Trento - Italy
25-27 September 2024

Grand Hotel Trento
Piazza Dante, 20 - Trento

Organised by



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OVERVIEW

In the ever-evolving dynamics of global energy, clean electricity, digitalisation, and the transformative potential of artificial intelligence (AI) emerge as pivotal drivers of change. Recognising the urgent need for innovative solutions to combat climate change and ensure sustainable energy access, the AEIT2024 International Annual Conference strides forward as a beacon of progress.

AEIT2024 is poised to deepen our time's pressing scientific and technological challenges, steering the debate towards decarbonisation and resilient energy infrastructure. At its core, the conference explores digitalisation and AI's profound impact on energy systems, from optimising renewable energy integration or managing the flexibility of distributed energy resources and multi-vector energy systems to enhancing energy system adequacy, security and resiliency.

The AEIT2024 international forum is crucial for exchanging cutting-edge research and fostering collaboration between industry and academia. From renewable energy integration to power system optimisation, automation, and digital applications to Regulation, electricity markets and energy economy, AEIT2024 strives to push the boundaries of knowledge and innovation.

Moreover, AEIT2024 transcends traditional format, offering a platform for interactive discussions on energy planning amidst uncertainty in our increasingly complex world. As we convene for the 116th edition, speakers and participants from across the globe will converge to share insights, chart pathways for sustainable development, and harness the transformative potential of research and innovation in shaping the future of energy.

Whether in-person or virtually, AEIT2024 beckons researchers, policy-makers, and industry leaders to join the forum contributing their expertise to propel us towards a more sustainable, equitable, and AI-driven energy landscape.

Submission of Papers

The working language of the conference is English. Please submit the full paper (six pages) as a PDF following the IEEE layout requirements by using the templates given at the conference web page: <https://convegnae.it/AEIT2024> via EDAS (<https://2024aeit.edas.info/>). The full paper should contain a complete description of the proposed technical contribution and some results, suitably framed in the related state of the art. Each paper will be reviewed in terms of relevance concerning the scope of the event, originality and quality of the technical content, overall organisation and writing style. Conference content will be submitted for inclusion into IEEE Xplore and other Abstracting and Indexing (A&I) databases.

Selected papers from this Conference may be eligible for review by IEEE-Industry Applications Society for possible publication in IEEE Transactions on Industry Applications or IEEE Industry Applications Magazine. The Conference Organizers will make the selection and submit a list of papers to IEEE-IAS, and will notify authors of their selection after the close of the Conference. Questions on this selection should be addressed to the Conference Organizers. IEEE-IAS will then contact the authors of papers selected for consideration with information on how they may be submitted for review. Further information on IEEE-IAS publications, and the obligations of authors, can be found in the Information for Authors on the IEEE-IAS web site, <http://ias.ieee.org/publications.html>

Topics of interest include but are not limited to:

- **Ancillary services markets: new prospective toward integrated market**
- **Artificial Intelligence in the Power System**
- **Broadband Communications and Telecommunications Services**
- **Cloud and Hybrid Systems**
- **Cyber-Security and Physical Systems**
- **Electrical Machines & Drives**
- **Electrification of final uses of energy**
- **Electromagnetic Models & Simulations**
- **Energy Communities and Smart Cities**
- **Energy Efficiency**
- **Energy markets**
- **Energy Storage, Demand Response and Flexibility Products**
- **Energy Transition**
- **Innovative Diagnostics, Internet of Things, Smart Sensors**
- **Innovative operation of transmission and distribution systems**
- **Integrated or coordinated planning and development of energy systems**
- **Power Electronics**
- **Power System Analysis and Control**
- **Power to X and multi-carrier energy systems**
- **Regulation and Legislation in the Energy and Digital Sectors**

- **Renewable Energy Sources**
- **Service Continuity and Safety Management**
- **Sustainability**
- **Sustainable mobility (automotive, electric mobility, public transportation, etc.)**

Special Sessions

The conference will include Special Sessions on highly specialised topics, reporting technical trends and breakthroughs within the scope of the conference.

Deadlines

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|-------------------------|----------------|
| Paper submission | ■ 15 June 2024 |
| Acceptance notification | ■ 12 July 2024 |
| Early bird registration | ■ 20 July 2024 |
| Final Paper Submission | ■ 31 July 2024 |

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