



IFAC Workshop on Smart Energy Systems for Efficient and Sustainable Smart Grids and Smart Cities

Politecnico di Bari | ITALY
June 18-20, 2025

The **2025 IFAC Workshop on Smart Energy Systems for Efficient and Sustainable Smart Grids and Smart Cities – SENSYS 2025**, will take place in Bari, Italy, from June 18 to June 20, 2025.

Hosted under the auspices of the **International Federation of Automatic Control – IFAC**, this workshop will explore advanced decision and control techniques and applications within smart energy systems to enhance the efficiency and sustainability of infrastructures, ecosystems, and urban areas of the future. Attendees will benefit from a rich program featuring technical sessions, keynote lectures, and opportunities for networking with leading experts, industry professionals, and policy-makers.

We invite submissions for Open Invited Track, Regular Contributions, Discussion Contributions and Dissemination Contributions that align with the workshop's topics.

The proceedings are published online in partnership with Elsevier in the open access journal **IFAC-PapersOnLine**. Each paper is uniquely identified by a DOI (Digital Object Identifier), the current standard for electronic papers citation. **IFAC-PapersOnLine** is indexed by Scopus, the Web of Science (WoS), and Google Scholar.

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Topics

Workshop topics include but are not limited to:

Decision and control techniques
Distributed and decentralized control and management
Intelligent control in smart grid
Wide-area monitoring and control
Virtual power plants
Design of energy markets for smart grid
Fault detection, supervision, and safety
Modelling and control of prosumer resources
Smart design and control of energy storage systems
Artificial Intelligence in control systems
Non-linear dynamic modeling
Multi-objective and multi-criteria optimization
Agent-based and participatory modeling
Integrated assessment modeling
Uncertainty management
Decision support systems

Application fields

Smart grids
Smart districts and buildings
Smart cities
Energy communities
Green hydrogen
Renewable energy
Sustainable development
Resource management (water, atmosphere, and land)
Biotechnological systems
Environmental systems and energy nexus
Natural risk management (floods, forest fires, hurricanes, earthquakes, etc.)
Power electronics & energy conversion
Electrical machines & industrial drives
Smart mobility & transportation electrification
Electronic system on chip & real-time embedded control
Industrial processes & manufacturing



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Deadlines and Other Dates

15 January 2025 31 January 2025 – Open Invited Track submission
15 February 2025 1 March 2025 – Regular Paper initial submission
15 March 2025 – Discussion and Dissemination contributions submission
31 March 2025 – Acceptance notification
15 April 2025 – Final submission
30 April 2025 – Early registration rate expires
1 June 2025 – Normal registration rate expires
18 June 2025 – Late registration rate expires
18-20 June 2025 – Workshop dates

Workshop Website

<https://conferences.ifac-control.org/sensys2025>



We look forward to

welcoming you to Bari, Italy!



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