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Coupling AI in Electricity Markets

Guest Editors:

Dr. Zhifeng Qiu
School of Automation, Central South University, Changsha 410083, China

Prof. Dr. Geert Deconinck
Department of Electrical Engineering, University of Leuven, 3001 Leuven, Belgium

Deadline for manuscript submissions:
closed (25 July 2025)

Message from the Guest Editors

Dear Colleagues,

Electricity markets are key areas for achieving the energy transition and low-carbon development of smart grids, as well as being important application areas for artificial intelligence (AI) technologies. AI is widely considered to be a powerful technology that can effectively process the massive data in electricity markets, improve the efficiency and reliability of electricity markets, and foster the innovation and transformation of electricity markets. This Special Issue welcomes various papers related to "AI + electricity markets", including but not limited to the following topics:

- AI applications in electricity market forecasting, scheduling, optimization, and control;
- AI applications in electricity market security, stability, and fault diagnosis;
- AI applications in electricity market demand response, distributed energy, and energy storage;
- AI applications in electricity market trading, pricing, and market design;
- AI applications in electricity market regulation, policy, and social impact;
- AI applications in the electricity market: new modes, new formats, and new technologies;

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Guest Editors

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Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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