

## Special Issue

# Deep Reinforcement Learning in Power Grids

### Message from the Guest Editors

This Special Issue aims to present and disseminate the most recent advances in DRL for planning, operation, control, and protection in future power grids, including transmission networks, distribution systems, and resilient microgrids. Topics of interest for publication include, but are not limited to, the following:

- Deep Reinforcement Learning for smart grids, smart energy systems, and resilient microgrids.
- DRL for smart homes and HEMS.
- DRL-based coordination of distributed energy resources and energy-on-demand services.
- DRL combined with optimization methods for power grids and optimal power flow.
- DRL for power flow control and power flow coloring.
- Stability-aware DRL for power system stability and control.
- DRL for demand response and flexible load management.
- DRL for energy storage scheduling and energy balancing.
- DRL for distributed sensing and control in large-scale networks.
- Deep Reinforcement Learning and telecommunications for communication-aware grid control and edge/fog deployments.

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### Guest Editors

Dr. Iacovos Ioannou

Department of Computer Science and Engineering, European University of Cyprus, Nicosia 2404, Cyprus

Dr. Saher Javaid

Department of Information Engineering, Kanazawa Gakuin University, 10 Suemachi, Kanazawa 920-1392, Japan

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### Deadline for manuscript submissions

closed (25 May 2026)



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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[energies@mdpi.com](mailto:energies@mdpi.com)

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## About the Journal

### Message from the Editor-in-Chief

*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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

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