

## Special Issue

# IoT and Sensor Network Applications for Energy Management and Efficiency

### Message from the Guest Editors

The global demand for energy-efficient solutions is ever-growing as the world faces the challenges of energy conservation and environmental sustainability. This Special Issue focuses on the application of Internet of Things (IoT) systems and wireless sensor networks (WSNs) as transformative tools to enhance energy efficiency across multiple domains, including residential and commercial buildings, industrial facilities, smart grids, agriculture and livestock farming, and smart cities. We aim to showcase the latest advancements in technology that integrate seamlessly into everyday environments and contribute to managing and reducing the consumption of electricity, fossil fuels, and other energy sources. By harnessing the capabilities of the IoT and WSNs, this Special Issue seeks to highlight innovative strategies that optimize energy usage, integrate renewable energy sources, and improve overall operational efficiency. We welcome contributions that explore and advance the field of energy conservation through cutting-edge research, novel methodologies and algorithms, smart sensors and devices, real-world testbeds and case studies, and comprehensive reviews.

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### Guest Editors

Dr. José A. Afonso

Dr. Sérgio F. Lopes

Prof. Dr. João Paulo Pereira do Carmo

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### Deadline for manuscript submissions

15 April 2025



## Energies

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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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### Editor-in-Chief

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