

## Special Issue

# Intelligent Control and Optimization in Energy System

### Message from the Guest Editors

This Special Issue encompasses a wide range of technological development topics focused on the objectives of reducing energy consumption and optimizing energy generation. These efforts span various domains, including urban environments, industrial facilities, buildings, plant systems, surveillance and security, renewable energy systems, and various other large-scale infrastructures. We strongly encourage researchers from diverse fields within the journal's scope to contribute research papers that highlight the latest developments in their research area. Additionally, we invite researchers to collaborate with relevant experts and colleagues in preparing these contributions. Topics of interest for this Special Issue include, but are not limited to: Energy AI and big data analysis;

Building energy efficiency;

Renewable energy systems;

Nuclear energy systems;

Optimization in energy management;

HVAC/Facilities control management;

Life cycle cost analysis in energy system;

Energy retrofit;

Smart systems in built environment;

Surveillance and security;

Fault diagnosis;

Interdisciplinary energy research.

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### Guest Editors

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### Deadline for manuscript submissions

closed (20 April 2025)



## Applied Sciences

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CiteScore 5.5



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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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