

## Special Issue

# Artificial Intelligence and Genetic Algorithms in Renewable Energy Systems

### Message from the Guest Editors

This Special Issue aims to bring together **theoretical contributions, algorithmic developments, and applied studies** that explore intelligent methods for modeling, forecasting, optimization, and controlling renewable energy systems. We are especially interested in innovative approaches that bridge **AI methodologies and practical energy engineering applications**, contributing to more reliable, efficient, and resilient renewable energy solutions. **Topics of interest include, but are not limited to, the following:**

- Artificial intelligence and genetic algorithms in renewable energy systems;
- Fuzzy and interval type-2 fuzzy models for energy forecasting;
- Short time-series analysis under uncertainty;
- Multi-objective and Pareto-based optimization in energy management;
- Photovoltaic system modeling, configuration, and performance optimization;
- Battery storage, load scheduling, and demand-side management;
- Intelligent control of inverters and hybrid energy systems;
- Clustering and phase-space analysis of energy-related time-series.

We look forward receiving original research and review articles that contribute to the advancement of intelligent renewable energy systems.

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### Guest Editors

Dr. Ekaterina Gospodinova  
Dr. Stanislav Simeonov  
Prof. Dr. Jen-Hao Teng

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### Deadline for manuscript submissions

15 September 2026



## Electronics

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## About the Journal

### Message from the Editor-in-Chief

*Electronics* is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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### Editor-in-Chief

Prof. Dr. Flavio Canavero

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