

## Special Issue

# Application of Intelligent Control and Optimization in Power, Energy, and Communication Systems

### Message from the Guest Editors

This Special Issue, entitled “Intelligent Systems for Control and Optimization in Power, Energy, and Communications”, aims to highlight recent advancements and innovative research in control strategies and intelligent optimization techniques for modern power, energy and communication systems. Techniques such as artificial intelligence, machine learning, swarm intelligence, and evolutionary algorithms could address challenges related to smart grids, renewable energy integration, energy storage, electric mobility and communication infrastructures. We welcome the submission of both theoretical and applied original research that presents novel developments, implementations and experimental validations in this dynamic and impactful area of study. Keywords

- intelligent control
- optimization algorithms
- smart grids
- renewable energy integration
- swarm intelligence
- evolutionary computation
- artificial intelligence
- machine learning
- energy management systems
- load forecasting
- fault detection and diagnosis
- hybrid optimization techniques
- communication networks

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### Guest Editors

Dr. Stylianos Pappas

Dr. Vasiliki Vita

Prof. Dr. George Kiokos

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### Deadline for manuscript submissions

15 April 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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