

## Special Issue

# AI-Based Modelling and Control of Power Systems

### Message from the Guest Editors

#### Objectives:

- **Showcase Cutting-Edge Research:** Present the latest advancements in applying artificial intelligence (AI) techniques to power electronics, with a particular focus on enhancing control systems and optimization strategies.
- **Explore Cybersecurity Solutions:** Investigate novel AI-driven methods for detecting and mitigating cyber-attacks. This includes exploring techniques such as artificial neural networks (ANNs), deep learning, and machine learning for improved cybersecurity in power electronic systems.
- **Highlight Advanced Control Strategies:** Demonstrate recent developments in control strategies and their integration with AI.
- **Investigate Optimization Methods:** Examine advanced optimization techniques to enhance the efficiency and effectiveness of power electronic systems and control strategies.
- **Foster Collaboration:** Encourage collaboration between researchers and practitioners in the fields of power electronics, AI, optimization, and cybersecurity. Promote the exchange of ideas and advancements to drive innovation and practical applications.

### Guest Editors

Dr. Mohammad Reza Maghami

Dr. Javad Rahebi

Dr. Mehdi Zareian Jahromi

### Deadline for manuscript submissions

30 September 2025



## Processes

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

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### Message from the Editor-in-Chief

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### Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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