

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

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