

Special Issue

Advancements in Optimization and Control Algorithms for Intelligent Electric Power Systems

Message from the Guest Editors

The growing demand for electricity poses significant challenges in ensuring a reliable and efficient energy supply for electric power systems, which is a complex task to address today. Optimization and control algorithms have emerged as an advanced problem-solving methodology across various scientific and engineering fields, providing sophisticated strategies for improving system performance, resource allocation, decision-making processes, and traditional as well as intelligent control approaches. The integration of optimization and control methodologies has further broadened the horizons of computational intelligence. This Special Issue aims to explore cutting-edge advancements in optimization and control, with a particular emphasis on their application within intelligent electric power systems, and their synergy with emerging technologies such as the Internet of Things and advanced communication networks. These integrated approaches enable the systematic exploration of solution spaces, identification of optimal configurations, and dynamic control of systems that can adapt to changing conditions. Original research and reviews from academia and industry are welcome.

Guest Editors

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Editor-in-Chief

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