Special Issue

Robust Adaptive Nonlinear and Optimal Control for Hybrid Energy Systems

Message from the Guest Editors

This Special Issue (SI) will focus on advanced control strategies—optimal and robust methods—for developing adaptive energy systems. We invite contributions from researchers across various disciplines. Our goal is to explore the intersection of control and energy engineering, emphasizing the essential role of control actions in power systems. We aim to create new control paradigms applicable to both traditional and small green energy systems. The SI will also tackle adaptive control challenges in autonomous systems to optimize energy flows. In robotics, effective energy management strategies are crucial for enhancing efficiency and recovery as robots become more integrated into industries. We welcome papers on energy control in individual robots and robot networks. Drones and aerospace applications are additional areas of interest, particularly regarding adaptive energy control. We encourage review papers, short papers, and letters that highlight significant recent findings. We hope this SI will foster collaboration and advance projects in this vital field.

Guest Editors

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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