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# **Model Predictive Control-Based Approach for Microgrids**

Guest Editors:	Message from the Guest Editors
Dr. Valerio Mariani	Dear Colleagues,
Prof. Dr. Giorgio Graditi	The optimization of energy microgrids through model- based predictive control (MPC) schemes enables the
Dr. Maria Valenti	reconciliation of different operational objectives while
Prof. Dr. Luigi Glielmo	respecting the constraints imposed by the considered scenarios.
Deadline for manuscript submissions:	Topics of interest for this Special Issue include, but are not limited to, the following:
20 July 2024	<ul> <li>Centralized, decentralized, distributed, and hybrid approaches;</li> <li>Integrated approaches (MPC in combination with data-driven techniques, such as, and not restricted to, RL);</li> <li>Deterministic and stochastic settings;</li> <li>Single, multiple, and microgrid aggregation;</li> <li>Single and multilevel control architectures;</li> <li>AC, DC, and hybrid microgrid;</li> <li>Renewable integration and decarbonization;</li> <li>Smart microgrid and smart grid modeling; simulations, and operations;</li> <li>Smart sector integration (e.g., green transport systems) and/or strictly related topics (e.g., energy communities);</li> <li>Reliability, resiliency, robustness, and stability;</li> </ul>
	<ul> <li>Cybersecurity, cybertnreat mitigation, cyberattack countermeasures.</li> </ul>









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## **Editor-in-Chief**

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#### Message from the Editor-in-Chief

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