

## Special Issue

# Model Predictive Control System Design and Implementation

### Message from the Guest Editors

MPC has arguably become one of the most successful control methods due to its capacity to integrate issues such as multiple inputs and outputs, optimization goals, constraints, and dead times. This Special Issue aims at compiling advances regarding predictive controllers in systems where energy plays a central role. From power converters to solar plants, there is a myriad of applications where MPC and energy are entwined, perhaps being part of a larger system. For this reason, this Special Issue aims at bringing together contributions regarding topics such as:

- Centralized, hierarchical and distributed MPC methods in energy systems.
- Fast and flexible MPC methods in energy systems (e.g., numerical methods, clustering, plug and play).
- Cybersecurity and resilience in the design of MPC controllers for collaborative energy management.
- Learning and data-driven strategies for MPC controllers in energy systems.
- MPC-based methods to flatten the demand in energy systems.

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### Guest Editors

Prof. Dr. José María Maestre  
Prof. Dr. Carlos Bordons  
Dr. Juan Manuel Escaño

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### Deadline for manuscript submissions

closed (31 December 2021)



## Energies

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## About the Journal

### 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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### Editor-in-Chief

Prof. Dr. Enrico Sciubba

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