

Special Issue

Energy Efficiency and Data-Driven Control

Message from the Guest Editors

The last decade has led to a serious step forward regarding the complexity of processes, and also to high demanding performance, including energy efficiency. The optimization algorithms play an important role in the context of advanced control systems as they give, in case of correct formulations, solutions to rather complicated problems in order to meet systematically the performance specifications. Data-driven control aims to avoid the use of process models in controller tuning and to efficiently use the information in process input-output data to design predictors, controllers, and monitoring systems that guarantee the required control system performance. Energy efficiency deals with hot topics related to energy efficiency, energy savings, energy consumption, energy sufficiency, and energy transition. The intersection of energy efficiency and data-driven control leads to high control system performance. The papers in this Special Issue are expected to provide recent results in advanced controller design and tuning techniques focusing on energy efficiency and data-driven control. Papers containing experimental results in advanced control systems and optimization are welcome.

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Deadline for manuscript submissions

closed (31 July 2019)



Energies

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Impact Factor 3.2
CiteScore 7.3



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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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