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Energy Challenges and Smart Applications in Production Systems— 2nd Edition

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Deadline for manuscript
submissions:

closed (30 June 2024)

Message from the Guest Editors

We live in a time of rapid technological progress, as evidenced by the emergence of the fourth industrial revolution (Industry 4.0). Energy consumption and delivery are currently some of the greatest challenges facing civilization. Society is becoming increasingly aware of the scarcity of natural resources, the impact of climate change, and the importance of smart solutions that allow for the rational use of energy. To this end, it is crucial to pay attention to the production processes that are gigantic energy consumers. Energy efficiency in production is a great challenge that cannot be successfully achieved without ground-breaking changes in production paradigms and underlying technologies and applications. Smart solutions will undoubtedly play a major role in this area.

This Special Issue aims to promote and disseminate new trends and the latest advancements in Industry 4.0 and AI, supporting energy efficiency in production and manufacturing systems and sustainable energy. We invite all interested parties to publish the results of their research. Theoretical approaches, frameworks, simulations, technological applications, as well as pilot and case studies are welcome.



mdpi.com/si/193935

Special Issue



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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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