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## Energy Challenges and Smart Applications in Production Systems

Guest Editors:

**Dr. Krzysztof Ejsmont**

krzysztof.ejsmont@pw.edu.pl

**Dr. Bartłomiej Gładysz**

bartlomiej.gladysz@pw.edu.pl

**Dr. Rodolfo Haber**

rodolfo.haber@car.upm-csic.es

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### Message from the Guest Editors

Dear Colleagues,

Energy consumption and deliveries are currently some of the greatest challenges of civilization. Society is becoming more and more aware of the scarcity of natural resources, the impact of climate change, and the importance of smart solutions for rational use of energy. Energy efficiency in manufacturing cannot be achieved without changes in paradigms and underlying technologies and applications. The role of smart solutions in this area is huge.

The development of Industry 4.0 and artificial intelligence (AI) provides many promises in the field of energy saving. Smart solutions offer manufacturing many benefits (reducing emissions, energy consumption, costs, and better customer service, and others). Industry 4.0 and AI play a key role in the success of smart applications for energy efficiency.

The purpose of this Special Issue is to promote and disseminate new trends and advancements in Industry 4.0 and AI supporting energy efficiency in manufacturing systems, and sustainable energy.



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**Special Issue**



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## Editor-in-Chief

### Prof. Dr. Enrico Sciubba

Department of Mechanical and  
Aerospace Engineering,  
University of Roma Sapienza, Via  
Eudossiana 18, 00184 Roma, Italy

## 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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*Energies*  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

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