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Modelling of Industrial Processes

Guest Editors:

Prof. Dr. Vincenzo Dovi

Interuniversity Centre HTR,
Piazzale Aldo Moro 4, Rome, Italy
dovi.mdpi@gmail.com

**Prof. Dr. Valery Pavlovich
Meshalkin, Academician of
RAS**

Mendeleev University of
Chemical Technology, Myusskaya
Square 9 Moscow, Russia
clogist@muctr.ru

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Message from the Guest Editors

The modelling of industrial processes has evolved following the understanding of the fundamental science that underlies them and the growth of computational power that allowed the resulting knowledge to be cast into refined design and operation algorithms. Presently, new opportunities and challenges are looming up. The impending industrial revolution, boosted by advances in basic science, such as nanotechnology, biotechnology, artificial intelligence, and big data analysis, will change scale and scope of production. Sustainability will profit from improved process intensification and energy integration. Industrial processes, facing new scenarios, will have to strengthen resiliency and flexibility to withstand sudden supply chains collapses, trade wars, and price oscillations. Industrial revolution, sustainability and management of uncertainty will deeply affect traditional areas, such as process optimization, optimal control, process synthesis, scale-up techniques, and safety analysis.



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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

Tel: +41 61 683 77 34
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