



Modelling of Industrial Processes

Guest Editors:

Prof. Dr. Vincenzo Dovi

Italian Embassy, Germany
Hiroshimastrasse 1-7 10785
Berlin, Germany

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

Mendeleev University of
Chemical Technology, Myusskaya
Square 9 Moscow, Russia

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Message from the Guest Editors

The modelling of industrial processes became of age when the necessary theoretical knowledge in the fundamentals of science (such as fluid mechanics, thermodynamics, materials science, chemical kinetics) became available for the quantitative description of the mechanisms underlying industrial processes through a set of mathematical relationships.

While some milestone achievements have been attained, new opportunities and challenges are looming up. New powerful tools are expected to enhance the overall sustainability of the industrial sector by increasing energy efficiency and resource-saving through improved process intensification and total site integration. Thus, industrial revolution, sustainability enhancement, and management of uncertainty are the new key issues. They will also promote innovations in traditional areas, such as process optimization, optimal control, efficient process synthesis, advanced scale-up techniques, and safety considerations.

We believe this is the present role of the modeling of industrial processes, and these are the areas in which we ask the scientific community to contribute their expertise and their achievements to this Special Issue.





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Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

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Sustainability Editorial Office
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