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Process System Engineering 4.0

Guest Editors:

Dr. Idelfonso B. R. Nogueira

Department of Chemical Engineering, Norwegian University of Science and Technology, 7034 Trondheim, Norway

Prof. Dr. Alexandre F. P. Ferreira

Laboratory of Separation and Reaction Engineering (LSRE), Department of Chemical, Faculty of Engineering of the University of Porto (FEUP), Porto, Portugal

Prof. Dr. Márcio A. F. Martins

Departamento de Engenharia Química, Escola Politécnica, Universidade Federal da Bahia, Salvador 40210-630, BA, Brazil

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Message from the Guest Editors

Process System Engineering (PSE) is a consolidated field that provides the backbone for large-scale industrial production. The present social dynamics require the industry to quickly respond to external changes with the flexibility to reconfigure itself while constantly optimizing and controlling its processes.

In this scenario, several new technologies are emerging to address these issues. This is promoting the 4th Industrial Revolution, so-called Industry 4.0. The synergy between these new technologies and PSE fosters the emergence of a new field, Process System Engineering 4.0. In this context, this Special Issue aims to promote and discuss the new developments in PSE. Its goal is to address the most recent advancements in PSE 4.0 and future perspectives in this field. Hence, this Special Issue will promote the debate surrounding the multidisciplinary intersection between PSE 4.0 and topics such as: scientific machine learning; advanced control systems; optimization theory; high-performance computing; distributed systems; digital twins; cyber-physical systems.





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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and
Technology, University of Turin,
Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

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Processes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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