

Special Issue

Empowering Pharma4.0: Continuous Monitoring and Optimization of Pharmaceutical Processes

Message from the Guest Editors

At present, the pharmaceutical industry is experiencing a paradigm shift from batch to continuous manufacturing. This will lead to increased flexibility to target diverse populations as well as more consistent product quality to ensure best efficacy. Continuous processing integrated with online/inline monitoring tools coupled with an efficient automatic feedback control system is highly desired by the pharmaceutical industry. To facilitate the transition from the batch-wise production to continuous manufacturing in the pharma industry, engineering tools are needed. Hence, the aim of this paper is to enhance the advantages of modeling and control techniques in the field of pharmaceutical applications. Transition to a continuous manufacturing process in the pharma industry has only recently, in 2020, been shown to add great economic benefits and faster time to market for increased end-user availability of products.

Guest Editors

Dr. Dana Copot

Research Group on Dynamical Systems and Control (DYSC),
Department of Electromechanical, Systems and Metal Engineering,
Ghent University, B-9052 Ghent, Belgium

Dr. Elena Torfs

Department of Data Analysis and Mathematical Modelling, Ghent
University, Ghent, Belgium

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Prof. Dr. Giancarlo Cravotto

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

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