



Optimization-Driven Methods for Optimal Operation and Control Strategies

Guest Editor:

Prof. Dr. Johannes Jäschke

Department Chemical Engineering, Norwegian University of Science and Technology (NTNU), Trondheim, Norway

Deadline for manuscript submissions:

closed (30 May 2020)

Message from the Guest Editor

This Special Issue will collect contributions that apply and develop optimization concepts for realizing optimal process operation and control. This includes online-optimization methods, such as model predictive control (MPC) and real-time optimization (RTO), as well as developments that use optimization off-line for designing an optimal control structure, or controllers, including tuning. Applications of optimizations and new developments of optimization algorithms and methods are both welcome.

Topics include

- Model predictive control
- Dynamic real-time optimization / economic model predictive control
- Real-time optimization / modifier adaptation / self-optimizing control
- Optimization-based controller design and controller tuning methods
- Learning-based optimization for optimal operation
- Data-based optimization of operations
- Plant-wide control approaches and control structure design





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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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