

Special Issue

Optimization-Driven Methods for Optimal Operation and Control Strategies

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

Guest Editor

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Editor-in-Chief

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