

Einladung zum Vortrag

Distributed optimization-based control of large-scale systems

von

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■ **ABSTRACT**

In this talk, various recent approaches to using distributed optimization-based techniques for the control and coordination of large-scale systems will be discussed along with open issues for future research.

The first part will describe a distributed implementation of model predictive control for constrained large-scale systems along with a decomposition-based optimal control approach illustrated on a paper machine control problem.

In the second part, a subgradient method is presented for solving coupled optimization problems in a distributed way given restrictions on the communication topology. The iterative solution procedure relies on local subgradient updates in combination with a consensus process.

■ **WEITERE INFORMATIONEN**

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