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MPC is a natural control framework to deal with the design of coordinated, distributed control systems because of its ability to handle input and state constraints and predict the evolution of a system with time while accounting for the

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effect of asynchronous and delayed sampling, as well as because it can account for the actions of other actuators in computing the control action of a given set of control actuators in real-time (Camacho & Bordons, 2004).

Distributed model predictive control: A tutorial review ...

A distributed model predictive control

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(DMPC) scheme is proposed to drive the heterogeneous vehicles into the desired platoon. In this DMPC framework, the multiple constraints, including the control constraints, state constraints, and jerk constraints, are employed to describe the practical characteristics of vehicles and the communication delays are time-varying and

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bounded.

For Plant Wide **Distributed Model Predictive Control for Platooning of ...**

This special issue is devoted to Distributed Model Predictive Control (DMPC), which is an emerging topic for scientific research. There are many open issues and several DMPC methods that have been proposed for different problem setups.

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Distributed model predictive control - Camacho - 2015 ...

Under easily verified controllability and observability assumptions, this distributed output-feedback model predictive control approach provides an upper bound on the group consensus error, thereby ensuring practical consensus in the presence of

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unmeasured distur-
bances and noise.
Systems

**Distributed Output-
Feedback Model
Predictive Control
for ...**

Distributed Model
Predictive Control.
Eduardo Camponogara,
Dong Jia, Bruce H.
Krogh, Sarosh Talukdar
Dept. of Electrical and
Computer Engineering
Carnegie Mellon
University Pittsburgh,
PA 15213. Introduction.

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In model predictive control (MPC), also called receding horizon control, the control input is obtained by solving a discrete-time optimal control problem over a given horizon, producing an optimal open-loop control input sequence.

Distributed Model Predictive Control

Abstract: This paper presents a distributed model predictive

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control (DMPC)
algorithm for
heterogeneous vehicle
platoons with
unidirectional
topologies and a priori
unknown desired set
point. The vehicles (or
nodes) in a platoon are
dynamically decoupled
but constrained by
spatial geometry.

**Distributed Model
Predictive Control
for Heterogeneous**

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Distributed Model Predictive Control

1. Introduction Model predictive control (MPC) is widely recognized as a high performance, yet practical, control technology. This model-based control strategy solves at each sample a discrete-time optimal control problem over a finite horizon, producing a control input sequence.

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Based on Dynamic

Games

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Distributed MPC for

resource-constrained

control systems. Helton

Scherer; Eduardo

Camponogara; Júlio

Normey-Rico; José

Domingo Álvarez; José

Luis Guzmán; Pages:

272-291; First

Published: 17

November 2014;

Abstract; Full text PDF;

References

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Distributed Model Predictive Control: Optimal Control ...

In this paper, a cooperative distributed model predictive control (DMPC) algorithm based on topological hierarchy decomposition is proposed. Utilizing the connection topology information of the distributed system, we decompose subsystems into a

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hierarchy structure
model through
interpretative
structural modeling.

**Cooperative
distributed model
predictive control
based on ...**

Model predictive control is an advanced method of process control that is used to control a process while satisfying a set of constraints. It has been in use in the process

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industries in chemical plants and oil refineries since the 1980s. In recent years it has also been used in power system balancing models and in power electronics. Model predictive controllers rely on dynamic models of the process, most often linear empirical models obtained by system identification. The main advantage of MPC

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Model predictive control - Wikipedia

Distributed model predictive control (MPC) is one of the promising control methodologies for control of such systems. This book provides a state-of-the-art overview of distributed MPC approaches, while at the same time making clear directions of research that deserve more attention. The

Read Book Distributed Model Predictive Control core and rationale of 35 approaches are carefully explained.

Distributed Model Predictive Control Made Easy ...

by P. Giselsson, A.
Rantzer We consider
distributed model
predictive control
(DMPC) where a sparse
centralized
optimization problem
without a terminal cost
or a terminal constraint
set is solved in

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distributed fashion.
Distribution of the
optimization algorithm
is enabled by ...

Distributed Model Predictive Control Made Easy

This technical note
investigates the robust
distributed model
predictive control
(MPC) problem for a
group of nonlinear
agents (subsystems)
subject to control input
constraints and

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external disturbances.
A robustness constraint
is proposed to handle
the external
disturbances.

**Robust Distributed
Model Predictive
Control of
Constrained ...**

In this paper we survey
the state-of-the-art
literature on
distributed control of
water systems in
general, and irrigation
canals in particular. We

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Distributed Model Predictive Control

focus on the model predictive control (MPC) strategy, which is a model-based control strategy in which prediction models are used in an optimization to determine optimal control inputs over a given horizon.

Distributed model predictive control for irrigation canals

At the upcoming 52nd IEEE Conference on

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Decision and Control
(CDC'13), December
10-13, 2013, Florence,
Italy, the following
workshop will be
organized: Distributed
Model Predictive
Control Made Easy:
Exploring Common
Characteristics and
Distinguishing Features
. Organizers. J. M.
(Jose) Maestre
(University of Seville);
R. R. (Rudy) Negenborn
(Delft University of
Technology)

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Workshop: Wide “Distributed MPC Made Easy” at CDC’13 ...

Abstract-This paper presents Distributed Model Predictive Control (D-MPC) of a wind farm for optimal active power control using the fast gradient method via dual decomposition. The objectives of the D-MPC control of the wind farm are power

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reference tracking from
the system operator
and wind turbine
mechanical load
minimization.

**Distributed Model
Predictive Control of
A Wind Farm for ...**

Abstract This is a
position paper on the
current state of the art
in distributed Model
Predictive Control
(MPC) and our view on
its future potential. We
present results from a

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recent survey of 35...

**(PDF) Distributed
Model Predictive
Control: An overview
of ...**

This paper addresses the impact of decomposition on the closed-loop performance and computational efficiency of model predictive control (MPC) of nonlinear process networks.

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structures with
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different
Systems
communication
strategies are designed
for regulation of an
integrated
reactor-separator
process.

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