Intelligent Systems, Control and Automation:
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Distributed Model Predictive Control Made Easy

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Distributed Model Predictive Control Made Easy (Intelligent Systems, Control and Automation: Science and Engineering)

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The rapid evolution of computer science, communication, and information technology has enabled the use of control ways to systems beyond the possibilities of control theory only a decade ago.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. These features make the book a thorough guide both for all those seeking an launch to distributed MPC as well as for those who want to get a deeper insight in the wide variety of distributed MPC techniques available. Distributed model predictive control (MPC) is one of the promising control methodologies for control of such systems. Important infrastructures such as electricity, water, traffic and intermodal transport systems are actually in the scope of control engineers. The primary and rationale of 35 approaches are thoroughly explained. Moreover, detailed step-by-step algorithmic descriptions of each approach are given. The sheer size of such large-scale systems requires the adoption of advanced distributed control methods.

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