

Operator Splitting Methods in Control (Foundations and Trends(r) in Systems and Control)

Giorgos Stathopoulos, Harsh Shukla, Alexander Szucs, Ye Pu, Colin N Jones

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The significant progress that has been made in recent years both in hardware implementations and in numerical computing has rendered real-time optimization-based control a viable option when it comes to advanced industrial applications. More recently, the need for control of a process in the presence of a limited amount of hardware resources has triggered research in the direction of embedded optimization-based control. Operator Splitting Methods in Control focuses on systems with linear dynamics, giving rise to convex control problems. It provides a comprehensive survey of a family of first order methods known as decomposition schemes or operator splitting methods and shows the behavior of such algorithms as solvers of control related convex problems from tens to a few hundreds of variables. This compact survey gives the reader a state-of-the-art overview of the topic with examples of applications in aerospace and building control.



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