

[2009-1284]Conservatism Reduction in Stabilizing Two-level Control of Discrete Large Scale Systems

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摘要

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Conservatism Reduction in Stabilizing Two-level Control of Discrete Large Scale Systems

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Abstract

The aim of this paper is to propose a new algorithm for multilevel stabilizer of large scale systems. In two level stabilizer method, a set of locally stabilizers for the individual subsystems in a completely decentralized environment is designed. The solution of the control problem involves designing of a global controller on a higher hierarchical level that provides corrective signals to account for interconnections effect. The principle feature of this paper is to reduce conservativeness in global controller design. Here the key point is to reduce the effect of interactions instead of neutralized them. In fact our idea unlike prior methods does not ignore the possible beneficial aspects of the interactions and does not try to neutralize them.

Key words

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