Home Teaching Biography

Stephen

P. Boyd

Research

Books Papers Software

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Classes

EE103

EE263

EE363

EE364a

EE364b

EE365

MOOC CVX101

On Maximizing a Robustness Measure for Structured Nonlinear Perturbations

L. El Ghaoui, V. Balakrishnan, E. Feron, and S. Boyd

Proceedings American Control Conference, 4:2923-24, June 1992.

nusynt.pdf

In this paper, we propose a robustness measure for LTI systems with causal, nonlinear diagonal perturbations with finite L_2-gain. We propose an algorithm to reliably compute this quantity. We show how to find a state-feedback controller that achieves the global maximum of the robustness measure.

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