Cornell University Library

We gratefully acknowledge support from the Simons Foundation and member institutions

arXiv.org > math > arXiv:1205.0111

Search or Article-id

(Help | Advanced search)

All papers | Go!

Mathematics > Optimization and Control

Alternatives for optimization in systems and control: convex and non-convex approaches

Emile Simon

(Submitted on 1 May 2012)

In this presentation, we will develop a short overview of main trends of optimization in systems and control, and from there outline some new perspectives emerging today. More specifically, we will focus on the current situation, where it is clear that convex and Linear Matrix Inequality (LMI) methods have become the most common option. However, because of its vast success, the convex approach is often the only direction considered, despite the underlying problem is non-convex and that other optimization methods specifically equipped to handle such problems should have been used instead. We will present key points on this topic, and as a side result we will propose a method to produce a virtually infinite number of papers.

Submission history

From: Emile Simon B.Sc. M.Sc. [view email]
[v1] Tue, 1 May 2012 08:48:13 GMT (6kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.