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NONCOMMUTING
VARIABLES KRISTIJAN
CAFUTA, IGOR KLEP¹,
AND JANEZ POVH²

Abstract. In this paper we study constrained eigenvalue optimization of noncommutative (nc) polynomials, focusing on the polydisc and the ball. Our three main results are as follows:

**CONSTRAINED
POLYNOMIAL
OPTIMIZATION**

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Constrained polynomial optimization problem on permutation set is explored. For the problem, an equivalent formulation with a convex objective function and functional constraints is formed based on forming convex extensions of all functions involved in the model.

**On Constrained
Optimization of**

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**Optimization
Problems With
Permutation Set**

(2015) Global optimality conditions and optimization methods for constrained polynomial programming problems. Applied Mathematics and Computation 262 , 312-325. (2015) On the robust stability of uncertain discrete-time networked control systems over fading channels.

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Global Optimization with Polynomials and the Problem of

...

constrained polynomial
optimization problems.

We test the new
method experimentally
and compare it to
semidefinite

programming in
various examples. 1.

Introduction Solving
polynomial

optimization problems
is a key challenge in

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countless applications like dynamical systems, robotics, control theory, computer vision, signal processing, and

**AN APPROACH TO
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OPTIMIZATION VIA**

...

problems, converging to the value of the original polynomial optimization problem. Constrained Polynomial

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Optimization We can also look at the problem of minimizing $p(z)$ subject to $z \in K$, where $K = \{z : q_1(z) \leq 0, \dots, q_r(z) \leq 0\}$ where we assume that $\{z : q_1(z) \leq 0\}$ is compact, and all functions are polynomials.

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Optimization -

Cornell University

Grover Adaptive

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Optimization Austin

Gilliam,¹ Stefan

Woerner,² and

Constantin Gonciulea

¹JPMorgan Chase ...

Optimization problems

are often solved by

sequential

approximation

methods. In many

cases, ... construction

works for polynomials

of arbitrary degree.

However, ...

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**Constrained
Polynomial Binary ...**

constrained
optimization problem
PK in (1.2), when K is a
compact set, not neces-
sarily convex, defined
by polynomial
inequalities. The
difference between
nonnegative and
strictly positive
polynomials is the
reason why, in some
cases, only an asymp-
totic result is possible.
Indeed, for the latter,

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THE PROBLEM OF ...

variable $W = xx^T$, [12]

reformulates the

problem as a rank-

constrained problem.

Subsequently, one can

drop the rank

constraint to obtain the

SDP relaxation [OP-

SDP] as in [12]. 3

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Programming Approach

The OPF problem is a

particular case of a
polynomial

optimization problem

of the form: $\min f(x)$

s.t. $g_i(x) \leq 0 \quad i = 1, \dots, m$

[PP]

Optimal Power Flow as a Polynomial Optimization Problem

Overview "Global
Optimization with
Polynomials and the
problem of moments",

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by Jean B. Lasserre

(2001) Goal: Solve $\min_{x \in K} p(x)$, p arbitrary

polynomial, $K = \{x \in \mathbb{R}^n \mid$

$f_i(x) \geq 0, g_i(x) \geq 0, g_i$ arbitrary

Polynomials. Result:

Possible as Sequence

of SDPs, approaching

the solution.

Global Optimization

with Polynomials

In this paper we

discuss Grover

Adaptive Search (GAS)

for Constrained

Polynomial Binary

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Optimization (CPBO)

problems, and in particular, Quadratic Unconstrained Binary Optimization (QUBO) problems, as a special case. GAS can provide a quadratic speed-up for combinatorial optimization problems compared to brute force search. However, this requires the development of efficient oracles to ...

Grover Adaptive

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Transcendental

solutions to

constrained polynomial
optimization problems?

Ask Question Asked 3
years, 8 months ago.

Active 3 years, 1

month ago. Viewed

148 times 7. 2

$\$ \backslash \text{begingroup} \$$ Can an

optimization problem

in which the objective

and constraints are all

polynomials with

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rational coefficients

have a solution

involving

transcendental values?

**Transcendental
solutions to
constrained
polynomial ...**

6 Equality constrained
polynomial

optimization problems

34 ... [27], and other

approaches to

characterize the

polynomial

optimization problem

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by semidefinite
programs via finite
varieties by Laurent
[14]. We attempt to

solve the following
polynomial

optimization problem:
 $\min p(x)$

**Introduction to
concepts and
advances in
polynomial ...**

This problem
generalizes a number
of well-known
optimization problems

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including the max flow problem and the min cost spanning tree problem. In brief, our main result is a strongly polynomial time algorithm for solving this problem. The previous algorithm for this problem had a weakly polynomial time complexity. Let V be a finite set.

A strongly polynomial time algorithm for a

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constrained ...

Keywords: constrained polynomial programming problem, necessary global optimality condition, linear transformation, local optimization method, global optimization method.

1. Introduction The general constrained polynomial programming problem (GPP) is widespread in the mathematical modeling of real world

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systems for a very
broad range of ...

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**Global Optimality
Conditions and
Optimization
Methods for ...**

Typical Optimization Problem. This example shows how to solve a constrained nonlinear optimization problem using the problem-based approach. The example demonstrates the typical work flow: create an objective

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function, create constraints, solve the problem, and examine the results.

Solve a Constrained Nonlinear Problem, Problem-Based ...

The constrained-optimization problem (COP) is a significant generalization of the classic constraint-satisfaction problem (CSP) model. COP is a CSP that includes an objective function to be

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optimized. Many algorithms are used to handle the optimization part.

General form. A general constrained minimization problem may be written as follows:

Constrained optimization - Wikipedia

This is the first comprehensive introduction to the powerful moment

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approach for solving
global optimization
problems ... a global
optimization method
for general constrained
nonconvex problems. J.
Global Optim., 7, 337

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SOS and SDP
relaxations for
polynomial
optimization problems
over symmetric cones.
Comp. Optim ...

**An Introduction to
Polynomial and Semi-**

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No. (will be inserted by

the editor) Bernstein

Inequalities for

Constrained Polynomial

Optimization Problems.

Mohamed Amin Ben

Sassi Sriram

Bernstein

Inequalities for

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low-rank problems,

although it is not

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particularly scalable;
we expand on this
point in Section 4.1.2.
1.1.4. Minimal Degree

Sum-of-Squares

Decomposition of a

Polynomial Many

central problems in

optimization and

control can be

addressed by

optimizing over the

space of globally non-

negative polynomials.

Mixed-Projection

Conic Optimization:

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A New Paradigm for

...

Here, we develop quantum versions of these iterative optimization algorithms and apply them to polynomial optimization with a unit norm constraint. In each step, multiple copies of the current candidate are used to improve the candidate using quantum phase estimation, an adapted quantum state

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exponentiation

scheme, as well as

quantum matrix

multiplications and

inversions.

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