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I. INTRODUCTION

Write the introduction here.

II. RELATED WORK

A. Model predictive control

List some papers sharing information about model predictive control.

B. Solving optimization problems

Mainly introduce [Fast Model Predictive Control Using Online Optimization by Wang and Boyd] and where some usefull features expending its algorithm are discribed.

III. PROBLEM STATEMENT

A. Description of a Quadratic Program

Introduce the unchanged problem statement of [Wang and Boyd]

B. Quadratic Constrained Quadratic Program

C. Second Order Cone Problem

D. Soft Constraints

IV. EXTENDED ALGORITHM

A. Generalized Constraints

B. Extended Problem Statement

C. Selecting κ

D. Nummerical Improvmnts

V. RESULTS

A. Test QPs

Results of Solving Test QPs bei Markov

B. Application Example

VI. CONCLUSIONS

APPENDIX

Appendixes should appear before the acknowledgment.

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The preferred spelling of the word acknowledgment in America is without an e after the g. Avoid the stilted expression, One of us (R. B. G.) thanks . . . Instead, try R. B. G. thanks. Put sponsor acknowledgments in the unnumbered footnote on the first page.

References are important to the reader; therefore, each citation must be complete and correct. If at all possible, references should be commonly available publications.

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