

Tracking file for  
Mathematical Programming, Series B special  
issue on "Large Scale Nonlinear and Semidefinite  
Programming" dedicated to Jos Sturm.

July 20, 2006

**Part I**  
**Accepted Papers Only**

SUBMITTED: 24 papers

Guest Editors:

=====

Erling Andersen (e.d.andersen AT mosek.com)  
Etienne de Klerk ( edeklerk AT uwaterloo.ca)  
Levent Tuncel ( ltuncel AT math.uwaterloo.ca)  
Henry Wolkowicz ( hwalkowicz AT uwaterloo.ca)  
Shuzhong Zhang ( zhang AT se.cuhk.edu.hk)

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SUBMISSIONS ARE LISTED BY HANDLING EDITOR:  
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**Contents**

<b>I Accepted Papers Only</b>	<b>1</b>
1 <b>**ONE** PAPER ACCEPTED/FINALIZED - EDITOR: Erling Andersen</b>	<b>4</b>

1.1	FINALIZED with Steve/ACCEPTED — AUTHORS: **Zhaosong Lu** and Arkadi Nemirovski and Renato D. C. Monteiro - . . . .	4
<b>2</b>	<b>**TWO** PAPERS ACCEPTED/FINALIZED - EDITOR: Etienne de Klerk</b>	<b>5</b>
2.1	FINALIZED with Steve/ACCEPTED/ AUTHORS: Monique Laurent . . . . .	5
2.2	FINALIZED with Steve/ACCEPTED AUTHORS: **Jon Lee**, Sam Burer . . . . .	5
<b>3</b>	<b>**THREE** PAPERS ACCEPTED/FINALIZED - EDITOR: Levent Tuncel</b>	<b>6</b>
3.1	FINALIZED with Steve/ACCEPTED AUTHORS: Arkadi Nemirovski . . . . .	6
3.2	FINALIZED with Steve/ACCEPTED AUTHORS: Yu. Nesterov	6
3.3	FINALIZED with Steve/ACCEPTED AUTHORS: **Igor Djukanovic** and Franz Rendl . . . . .	7
<b>4</b>	<b>**FIVE** PAPERS ACCEPTED/FINALIZED - EDITOR: Henry Wolkowicz</b>	<b>8</b>
4.1	FINALIZED with Steve/ACCEPTED – AUTHORS: Anthony Man-Cho So and **Yinyu Ye** . . . . .	8
4.2	FINALIZED with Steve/ACCEPTED: AUTHORS: Renato D.C.Monteiro and **Zhaosong Lu** . . . . .	8
4.3	FINALIZED with Steve/ACCEPTED – AUTHORS: **Michal Kocvara**, Michael Stingl (penopt) . . . . .	9
4.4	FINALIZED with Steve/ACCEPTED AUTHORS: Robert M. Freund and Kim Chuan Toh and **Fernando Ordonez** . . . . .	10
4.5	FINALIZED: AUTHORS: Madhu Nayakkankuppam . . . . .	10
<b>5</b>	<b>**FOUR** PAPERS FINALIZED - EDITOR: Shuzhong Zhang</b>	<b>12</b>
5.1	FINALIZED AUTHORS: Renata Sotirov and ***Franz Rendl*** 12	
5.2	FINALIZED with Steve/ACCEPTED AUTHORS: **Krokhmal**, Grundel, and Pardalos . . . . .	12
5.3	FINALIZED with Steve/ACCEPTED: AUTHORS: **M. Fukuda**, B.J.Braams, M.Nakata, M.L.Overton, J.K.Percus, M.Yamashita, and Z.Zhao subject to minor revision . . . . .	13
5.4	FINALIZED with Steve/ACCEPTED: Roland Freund, **Florian Jarre**, Christoph Vogelbusch - subject to revisions . . . . .	13
<b>II</b>	<b>PAPERS by EDITORS</b>	<b>15</b>
<b>6</b>	<b>**ONE** Papers submitted by Editors</b>	<b>15</b>

6.1	FINALIZED with Steve/ACCEPTED AUTHORS: Etienne de Klerk, Dmitrii V. Pasechnik, and <b>**Alexander Schrijver**</b> - . . .	15
<b>III</b>	<b>ACCEPTED PAPERS</b>	<b>15</b>
6.2	FINALIZED with Steve/ACCEPTED AUTHORS: Etienne de Klerk, Dmitrii V. Pasechnik, and <b>**Alexander Schrijver**</b> - . . .	15
<b>7</b>	<b>PAPERS ACCEPTED and/or FINALIZED</b>	<b>17</b>
7.1	THEORY . . . . .	17
7.1.1	<b>**Krokhmal**</b> , Grundel, and Pardalos, Asymptotic Behavior of the Expected Optimal Value of the Multidimensional Assignment Problem . . . . .	17
7.1.2	Etienne de Klerk, Dmitrii V. Pasechnik, and <b>**Alexander Schrijver**</b> , Reduction of symmetric semidefinite programs using the regular *-representation . . . . .	17
7.2	APPLICATIONS of SDP . . . . .	17
7.2.1	Monique Laurent, STRENGTHENED SEMIDEFINITE BOUNDS FOR CODES (final version received) . . . . .	17
7.2.2	Anthony Man-Cho So and <b>**Yinyu Ye**</b> , Theory of Semidefinite Programming for Sensor Network Localization . . . . .	17
7.2.3	<b>**Jon Lee**</b> , Sam Burer, Solving Maximum-Entropy Sampling Problems Using Factored Masks . . . . .	17
7.2.4	<b>**Igor Djukanovic**</b> and Franz Rendl, Semidefinite programming relaxations for graph coloring and maximal clique problems . . . . .	17
7.2.5	Yu. Nesterov, Dual extrapolation and its applications for solving variational inequalities and related problems . . . . .	17
7.3	NUMERICS/ALGORITHMS for SDP . . . . .	17
7.3.1	<b>**Zhaosong Lu**</b> and Arkadi Nemirovski and Renato D. C. Monteiro, A modified nearly exact method for solving low-rank trust region subproblem . . . . .	17
7.3.2	<b>**Michal Kocvara**</b> , Michael Stingl, (penopt) On the solution of large-scale SDP problems by the modified barrier method using iterative solvers . . . . .	17
7.3.3	Arkadi Nemirovski, Sums of Random Symmetric Matrices and Quadratic Optimization under Orthogonality Constraints . . . . .	17
7.3.4	Renata Sotirov and <b>***Franz Rendl***</b> , Bounds for the Quadratic Assignment Problem Using the Bundle Method . . . . .	17
<b>8</b>	<b>List of Referees</b>	<b>18</b>
<b>IV</b>	<b>Old Version of Tracking File commented out below</b>	<b>20</b>

**1 \*\*ONE\*\* PAPER ACCEPTED/FINALIZED  
- EDITOR: Erling Andersen**

**1.1 FINALIZED with Steve/ACCEPTED — AUTHORS:  
\*\*Zhaosong Lu\*\* and Arkadi Nemirovski and Renato  
D. C. Monteiro -**

Date: Thu, 11 Nov 2004 11:17:04 -0500 (EST)  
From: Zhaosong Lu <zhaosong@isye.gatech.edu>  
TITLE:  
Large-Scale Semidefinite  
Programming via Saddle Point Mirror-Prox Algorithm  
DATE SUBMITTED:  
Thurs, Nov. 11, 2004  
{DATE OF MAJOR REVISIONS:} Oct. 18, 2005  
HANDLING EDITOR: Erling Andersen  
REFEREES: :  
Christoph Helmberg: ( agreed 15-nov)  
kim Toh: (Agreed 16-nov)  
Mituhiko Fukuda: (Agreed 18-nov)

STATUS: ACCEPTED april 6 subject to revision of presentation; revision  
under review as of Sept 29. Sent back to referees on Oct 18.  
Final acceptance jan 30/06 - papers sent to Steve W.  
COMMENTS:

## 2 **\*\*TWO\*\* PAPERS ACCEPTED/FINALIZED** - **EDITOR: Etienne de Klerk**

### 2.1 **FINALIZED with Steve/ACCEPTED/ AUTHORS:** **Monique Laurent**

TITLE: STRENGTHENED SEMIDEFINITE BOUNDS FOR CODES  
DATE SUBMITTED: Jan. 28, 2004  
{DATE OF MAJOR REVISIONS:} Sept.26, 2005  
HANDLING EDITOR: Etienne de Klerk  
REFEREES: : 1) Jean Lasserre       agreed  
          2) Dima Pasechnik       agreed  
          3) Alexander Barg (<http://www.enee.umd.edu/~abarg/>) agreed  
STATUS:ACCEPTED aug/05  
Referee 1: asked to referee on January 28th agreed  
Referee 2: asked to referee on January 28th agreed  
Referee 3: asked to referee on January 28th agreed (needs extra month)

COMMENTS:

### 2.2 **FINALIZED with Steve/ACCEPTED AUTHORS:** **\*\*Jon Lee\*\*, Sam Burer**

TITLE: Solving Maximum-Entropy Sampling Problems Using Factored Masks  
DATE SUBMITTED: Mon, 28 Feb 2005 14:34:30 -0500  
{DATE OF MAJOR REVISIONS:} Oct. 18, 2005  
HANDLING EDITOR: Etienne de Klerk  
REFEREES: : 1) Kurt Anstreicher (agreed on Mar 1)  
          2) Romy Shioda (agreed on Mar 7)  
STATUS: Revision arrived Oct 15/05.

COMMENTS:

**3 \*\*THREE\*\* PAPERS ACCEPTED/FINALIZED  
- EDITOR: Levent Tuncel**

**3.1 FINALIZED with Steve/ACCEPTED AUTHORS:  
Arkadi Nemirovski**

Date: Tue, 14 Dec 2004  
From: Arkadi Nemirovski <nemirovs@isye.gatech.edu>  
TITLE:  
Sums of Random Symmetric Matrices and Quadratic Optimization  
under Orthogonality Constraints  
DATE SUBMITTED:  
Tue, 14 Dec 2004  
{DATE OF MAJOR REVISIONS:} Sept. 15, 2005  
HANDLING EDITOR: Levent Tuncel  
REFEREES: : 1. Y. Nesterov (agreed on Dec. 16, 2004)  
2. T. Stephen (agreed on Jan. 3, 2005)  
3. P. Tseng (agreed on Jan. 3, 2005)

STATUS: accepted on sept 15/05  
COMMENTS:

**3.2 FINALIZED with Steve/ACCEPTED AUTHORS:  
Yu. Nesterov**

Date: Feb. 7, 2005  
From: Yu. Nesterov  
TITLE: Dual extrapolation and its applications  
for solving variational inequalities and related problems  
DATE SUBMITTED: Feb. 7, 2005  
{DATE OF MAJOR REVISIONS:} Sept. 29, 2005  
HANDLING EDITOR: Levent Tuncel  
REFEREES:  
1. A. Nemirovski (agreed on Feb. 7, 2005)  
2. J.-P. Vial (agreed on Feb. 6, 2005)  
3. M. Epelman (agreed on Feb. , 2005)

Reports are due: May 31, 2005.

STATUS: Minor revision requested of the author: July 28,2005

COMMENTS:

**3.3 FINALIZED with Steve/ACCEPTED AUTHORS:  
\*\*Igor Djukanovic\*\* and Franz Rendl**

Date: Wed, 23 Feb 2005

From: igor <igor.mat@uni-mb.si>

TITLE:

Semidefinite programming relaxations  
for graph coloring and maximal clique problems

DATE SUBMITTED:

Wed, 23 Feb 2005

{DATE OF MAJOR REVISIONS:} Mar. 30, 2006

HANDLING EDITOR: Levent Tuncel

REFEREES: :

1. S. Burer (agreed on March 7, 2005)
  2. I. Bomze (agreed on March 4, 2005)
  3. D. Pasechnik (agreed on March 5, 2005)
- Reports are due: May 31, 2005.

STATUS: Major revision requested of the authors: Aug. 10, 2005.

First revision received: Oct. 27, 2005.

First revision sent to all three referees: Oct. 27, 2005.

Reports are due: Dec. 31, 2005.

Reports sent to authors for a minor revision: Feb 17, 2006.

COMMENTS:

## 4 **\*\*FIVE\*\* PAPERS ACCEPTED/FINALIZED** - **EDITOR: Henry Wolkowicz**

### 4.1 **FINALIZED with Steve/ACCEPTED – AUTHORS:** **Anthony Man-Cho So and \*\*Yinyu Ye\*\***

Date: Fri, 22 Oct 2004 22:45:09 -0700

From: Yinyu Ye <yinyu-ye@stanford.edu>Date: Fri, 22 Oct 2004 22:45:09 -0700

From: Yinyu Ye <yinyu-ye@stanford.edu>

TITLE:

Theory of Semidefinite Programming for Sensor Network Localization

DATE SUBMITTED:

Friday, Oct. 22, 2004

{DATE OF MAJOR REVISIONS:} Feb 7, 2005

HANDLING EDITOR: Henry Wolkowicz

REFEREES: : reminders sent Jan 29/05

Veronica Piccialli (asked on Oct. 27/04 - accepted oct 28)

(Veronica report received feb 3/05)

(REVISION forwarded on july 7 - revision OK'd)

: Abdo Alfakih (asked on Oct. 27/04 - accepted oct 28)

(report received feb 6/05)

(REVISION forwarded on july 7)

Bruce Hendrickson (asked on Oct. 27/04 -- accepted nov 3)

(Bruce received report jan29/05)

(REVISION forwarded on july 7 - final OK jul13 received)

:( Alexander Barvinok (asked on Oct. 27/04 - declined to do it

though suggested it was an interesting contribution)

Michael Trosset (asked on Nov 1/04 -- accepted nov 1 -delayed mar/05)

(not waiting for final referee - revision in progress - Trosset report  
received in May 30/05)

(REVISION forwarded on july 7)

STATUS:

COMMENTS: Three reports sent to Steve on Feb 6 - with request for  
revision (minor revision) but accepting paper. Waiting to get Steve's

OK. Steve's OK received - so reports sent to Yinyu on Feb 7.

4th report 'resent?' on July 1 - Trosset's report. waiting for revision.

Waiting for final reply from Abdo,

### 4.2 **FINALIZED with Steve/ACCEPTED: AUTHORS:** **Renato D.C.Monteiro and \*\*Zhaosong Lu**

Date: Wed, 8 Dec 2004 23:05:41 -0500 (EST)

From: Zhaosong Lu <zhaosong@isye.gatech.edu>

TITLE:



A modified nearly exact method for solving low-rank trust region subproblem

DATE SUBMITTED:

Wed, 8 Dec 2004 23:05:41 -0500 (EST)

{DATE OF MAJOR REVISIONS:} Aug. 8, 2005

HANDLING EDITOR: Henry Wolkowicz

REFEREES: :

Charles Fortin (McGill Univ. graduate student) (asked Dec 11/04)  
reply on Jan31/05

Marielba Rojas (asked Dec 11/04 - agreed dec 13 - reminder mar22 and aug1  
paper resent Apr 5/05)

Stefano Lucidi (asked Dec 11/04 - declined dec 14)

Gene Golub (asked Dec 11/04 -asked apr 5/05 - replied may 1 definite NO!)

Oleg Grodzevich (asked Dec 11/04 - reminder may 11)

Henry as well?

Ya-xiang Yuan asked may 18/05 reminder aug 1 - reply received aug 6

STATUS: sent to authors - revision requested with theoretical emphasis- on aug. 8

Still waiting for minor revision as of Dec 6/05.

Reply sent dec 19 to get another copy of revision.

COMMENTS:

### 4.3 FINALIZED with Steve/ACCEPTED – AUTHORS: \*\*Michal Kocvara\*\*, Michael Stingl (penopt)

Date: Mon, 07 Feb 2005 21:48:10 +0100

From: \*\*\*Michal Kocvara\*\*\*, kocvara-am2@penopt.com,

"Michael Stingl (penopt)" mstingl@penopt.com,

TITLE:

On the solution of large-scale SDP problems by the modified barrier  
method using iterative solvers

DATE SUBMITTED:

Mon, 07 Feb 2005

{DATE OF MAJOR REVISIONS:} Nov. 3, 2005

HANDLING EDITOR: Henry Wolkowicz

REFEREES: : sent to 4 referees on Feb 7.

Franz Rendl (agreed on Feb 12/05 - reply received mar 22/05)

Mauricio Resende (declined - suggested Joaquim Judice at Coimbra)

Joaquim Judice joaquim.judice@co.it.pt asked feb 23/05 - declined

Sam Burer (agreed - by end of March)(reminder sent apr 22)

Toh Kim Chuan (agreed - time frame 3 months)(reply received apr 22)

STATUS:

3 referee reports sent to authors on Apr. 25 - revision expected in two  
months. Revision received and sent to referees on Nov 3/05.

Referees agree on revision except for one small point sent back to

authors on nov 18/05.  
revision received dec 22 - sent to refs.  
Toh - agrees revision is fine - OK Dec 22. and Burer agrees as well on  
Dec30. Rendl agreed on the previous version.  
So - final decision made on Dec 30 - to accept.  
COMMENTS:

#### 4.4 FINALIZED with Steve/ACCEPTED AUTHORS: Robert M. Freund and Kim Chuan Toh and \*\*Fernando Ordonez\*\*

Date: Mon, 28 Feb 2005 13:49:14 -0800  
From: Fernando Ordonez <fordon@usc.edu>  
TITLE:  
Behavioral Measures and their Correlation with IPM Iteration  
Counts on Semi-Definite Programming Problems  
DATE SUBMITTED:  
Mon, 28 Feb 2005 13:49:14 -0800  
{DATE OF MAJOR REVISIONS:} Feb. 28, 2006  
HANDLING EDITOR: Henry Wolkowicz  
REFEREES: : sent on Feb 28 to:  
Adrian Lewis (Not this time.)  
Jorge R. VERA (acknowledged receipt of paper - and will referee - Mar 1/05- report received)  
Jiming Peng (acknowledged receipt of paper - and will referee - Mar 1/05 )  
Javier Pena(acknowledged receipt of paper - and will referee - Mar 1/05 - report received -  
  
STATUS: as of july 15/05: waiting to hear about revision from authors  
as of Dec 23 - paper is still with other referees - Pena agrees paper  
is fine.  
Awaiting last referee report from Jiming Peng - promised by end of Feb.  
last comments received - paper accepted - awaiting final version  
COMMENTS:

#### 4.5 FINALIZED: AUTHORS: Madhu Nayakkankuppam

Date: Sun, 6 Mar 2005 23:59:08 -0500 (EST)  
From: Madhu Nayakkankuppam <madhu@math.umbc.edu>  
TITLE:  
Solving Large-Scale Semdefinite Programs in Parallel  
DATE SUBMITTED:  
Tue, 1 Mar 2005 05:56:11 +0800  
Sun, 6 Mar 2005 23:59:08 -0500 (EST)  
{DATE OF MAJOR REVISIONS:} ??  
HANDLING EDITOR: Henry Wolkowicz

REFEREES: : all asked on mar 8/05

1. Brian Borchers (yes on Mar 8/05 - report received apr 28 - reject)  
on revision: may 24/06 still negative report - recommends rejection
2. Joseph Young (no reply)
3. Masakazu Kojima (replied yes mar 8/05 - reminder aug 4/05)
4. Christoph Helmberg (replied yes mar 10/05 - report received -  
recommendation is for revision)

STATUS: waiting for Kojima report but two reports sent to author aug 4/05  
COMMENTS: Final report sent to author on Aug 8 - acceptance subject to  
satisfactory revision.

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have to continue with special issue --- send the paper to regular  
issue instead. --- still awaiting referee reports?  
sent email to Madhu on july 17/06

Accepted final version - Helmberg and Kojima replied - paper is ready - jul20/06

## 5 **\*\*FOUR\*\* PAPERS FINALIZED - EDITOR: Shuzhong Zhang**

### 5.1 **FINALIZED AUTHORS: Renata Sotirov and \*\*\*Franz Rendl\*\*\***

Date: Fri, 21 Jan 2005 10:50:21 +0100 (CET)  
From: Franz Rendl <franz.rendl@uni-klu.ac.at>  
TITLE:  
Bounds for the Quadratic Assignment Problem Using the Bundle Method  
DATE SUBMITTED:  
Friday, Jan. 21, 2005  
{DATE OF MAJOR REVISIONS:} ??  
HANDLING EDITOR: Shuzhong Zhang  
REFEREES: :  
1. Panos Pardalos (report received on January 30, 2005 - minor revision)  
2. Sam Burer (report received on May 26, 2005 - minor revision)

STATUS: waiting for revision.

COMMENTS: reports sent to authors on July 27, 2005 - acceptance subject to satisfactory revision.

### 5.2 **FINALIZED with Steve/ACCEPTED AUTHORS: \*\*Krokhmal\*\*, Grundel, and Pardalos**

Date: Mon, 31 Jan 2005 12:32:29 -0600  
From: Paul Krokhmal <krokhmal@ufl.edu>  
TITLE:  
Asymptotic Behavior of the Expected Optimal Value of the Multidimensional  
Assignment Problem  
DATE SUBMITTED:  
Monday, Jan. 31, 2005  
{DATE OF MAJOR REVISIONS:} ??  
HANDLING EDITOR: Shuzhong Zhang  
REFEREES: :  
1. Rainer Burkard (report received on March 10, 2005 - minor revision)  
2. Svante Linusson (email reply on March 11, 2005 - results interesting;  
details not checked)  
3. Sven Erick Alm (email reply on March 20, 2005 - results interesting;  
details not checked)

STATUS: waiting for the referees to react on the revision.

COMMENTS: report sent to authors on July 23, 2005 - acceptance subject to satisfactory revision.

Revision received on Aug 28, 2005, and forwarded to the referees.

**5.3 FINALIZED with Steve/ACCEPTED: AUTHORS: \*\*M. Fukuda\*\*, B.J.Braams, M.Nakata, M.L.Overton, J.K.Percus, M.Yamashita, and Z.Zhao subject to minor revision**

Date: Fri, 25 Feb 2005 12:13:23 +0900

From: Mituhiro Fukuda <mituhiro@is.titech.ac.jp>

TITLE:

Large-scale semidefinite programs in electronic structure calculation

DATE SUBMITTED:

Fri, 25 Feb 2005

{DATE OF MAJOR REVISIONS:} ??

HANDLING EDITOR: Shuzhong Zhang

REFEREES: :

1. Brian Borchers (report received on May 10, 2005 - major revision)
2. Abdo Alfakih (report received on March 25, 2005 - minor revision)

STATUS: waiting for the referees to react on the revision.

COMMENTS: reports sent to authors on July 23, 2005, asking for a major revision.

Revision received on Aug 15, 2005, and forwarded to the referees.

**5.4 FINALIZED with Steve/ACCEPTED: Roland Freund, \*\*Florian Jarre\*\*, Christoph Vogelbusch - subject to revisions**

Date: Mon, 28 Feb 2005 23:18:25 +0100 (CET)

From: Florian Jarre <jarre@opt.uni-duesseldorf.de>

TITLE:

A sequential semidefinite programming method and an application in passive reduced-order modeling

DATE SUBMITTED:

Mon, 28 Feb 2005 23:18:25 +0100 (CET)

{DATE OF MAJOR REVISIONS:} ??

HANDLING EDITOR: Shuzhong Zhang

REFEREES: :

1. Michael Stingl (report received on June 2, 2005 - minor revision)
2. Yin Zhang (report received on July 28, 2005 - minor revision)

STATUS: waiting for the revision.

COMMENTS: report sent to authors on Aug 19, 2005 - acceptance subject to satisfactory revision.

## Part II

# PAPERS by EDITORS

## 6 **\*\*ONE\*\*** Papers submitted by Editors

### 6.1 FINALIZED with Steve/ACCEPTED AUTHORS: Etienne de Klerk, Dmitrii V. Pasechnik, and **\*\*Alexander Schrijver\*\*** -

TITLE: Reduction of symmetric semidefinite programs using the regular \*-representation

DATE SUBMITTED: Mon, 28 Feb 2005 21:48:09

{DATE OF MAJOR REVISIONS:} ??

HANDLING EDITOR: not public ()

REFEREES: : 1

2

STATUS:

Minor revision requested from the authors: Aug. 8, 2005

Accepted revision Sept 15/05

Referee 1:

Referee 2:

Deadline to referees for 1st referee report:

COMMENTS:

## Part III

# ACCEPTED PAPERS

### 6.2 FINALIZED with Steve/ACCEPTED AUTHORS: Etienne de Klerk, Dmitrii V. Pasechnik, and **\*\*Alexander Schrijver\*\*** -

TITLE: Reduction of symmetric semidefinite programs using the regular \*-representation

DATE SUBMITTED: Mon, 28 Feb 2005 21:48:09

{DATE OF MAJOR REVISIONS:} ??

HANDLING EDITOR: not public ()

REFEREES: : 1

2

STATUS:

Minor revision requested from the authors: Aug. 8, 2005

Accepted revision Sept 15/05

Referee 1:

Referee 2:

Deadline to referees for 1st referee report:

COMMENTS:



## 7 PAPERS ACCEPTED and/or FINALIZED

### 7.1 THEORY

- 7.1.1 **\*\*Krokhmal\*\***, Grundel, and Pardalos, Asymptotic Behavior of the Expected Optimal Value of the Multidimensional Assignment Problem
- 7.1.2 Etienne de Klerk, Dmitrii V. Pasechnik, and **\*\*Alexander Schrijver\*\***, Reduction of symmetric semidefinite programs using the regular \*-representation

### 7.2 APPLICATIONS of SDP

- 7.2.1 Monique Laurent, STRENGTHENED SEMIDEFINITE BOUNDS FOR CODES (final version received)
- 7.2.2 Anthony Man-Cho So and **\*\*Yinyu Ye\*\***, Theory of Semidefinite Programming for Sensor Network Localization
- 7.2.3 **\*\*Jon Lee\*\***, Sam Burer, Solving Maximum-Entropy Sampling Problems Using Factored Masks
- 7.2.4 **\*\*Igor Djukanovic\*\*** and Franz Rendl, Semidefinite programming relaxations for graph coloring and maximal clique problems
- 7.2.5 Yu. Nesterov, Dual extrapolation and its applications for solving variational inequalities and related problems

### 7.3 NUMERICS/ALGORITHMS for SDP

- 7.3.1 **\*\*Zhaosong Lu\*\*** and Arkadi Nemirovski and Renato D. C. Monteiro, A modified nearly exact method for solving low-rank trust region subproblem
- 7.3.2 **\*\*Michal Kocvara\*\***, Michael Stingl, (penopt) On the solution of large-scale SDP problems by the modified barrier method using iterative solvers
- 7.3.3 Arkadi Nemirovski, Sums of Random Symmetric Matrices and Quadratic Optimization under Orthogonality Constraints
- 7.3.4 Renata Sotirov and **\*\*\*Franz Rendl\*\*\***, Bounds for the Quadratic Assignment Problem Using the Bundle Method

## 8 List of Referees

1. Abdo Alfakih
2. Kurt Anstreicher
3. Alexander Barg
4. Brian Borchers (thrice)
5. Steve Benson
6. I. Bomze (Immanuel????)
7. Sam Burer (thrice)
8. Kevin Cheung
9. Chek Beng Chua
10. Toh Kim Chuan (twice)
11. Marina Epelman
12. Anders Forsgren
13. Charles Fortin
14. Mituhiro Fukuda
15. Oleg Grodzevich
16. Christoph Helmberg (twice)
17. Bruce Hendrickson
18. Sung-Pil Hong
19. Etienne De Klerk
20. Masakazu Kojima (twice)
21. Jean Lasserre
22. Monique Laurent
23. Renato Monteiro
24. Arkadi Nemirovski
25. Y. Nesterov
26. Dima Pasechnik (twice)
27. Javier Pena

28. Jiming Peng (twice)
29. Veronica Piccialli
30. Franz Rendl (twice)
31. Marielba Rojas
32. G. Salazar
33. David Shanno
34. Romy Shioda
35. Tamon Stephen (twice)
36. Michael Trosset
37. Paul Tseng
38. Jorge Vera
39. J.-P. Vial (Jean-Philippe??)

Part IV

**Old Version of Tracking File**  
commented out below