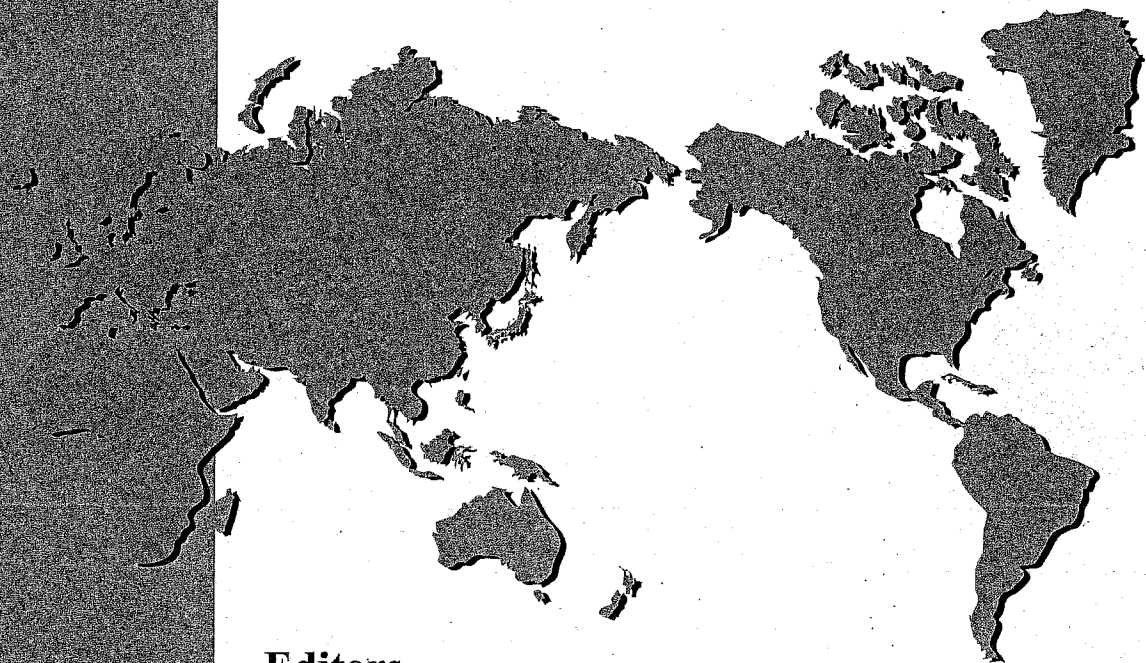


Pacific Journal of Optimization

An International Journal



Editors

M. Fukushima

C.T. Kelley

L. Qi

J. Sun

Guest Editors

R.-L. Sheu

J. Sun

W. Xing

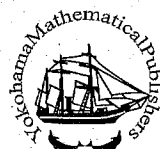
Volume 10

Number 3

July 2014

Special Issue in

***Honor of the 60th Birthday of
Professor Shu-Cherng Fang***



Yokohama Publishers

PACIFIC JOURNAL OF OPTIMIZATION

AN INTERNATIONAL JOURNAL

Editors

Masao Fukushima

Carl T. Kelley

Liqun Qi

Jie Sun

Advisory Board

Masakazu Kojima

Jong-Shi Pang

R. Tyrrell Rockafellar

Yinyu Ye

Editorial Board

Edward J. Anderson

Charles Audet

Adil Bagirov

Henri Bonnel

James V. Burke

Lou Caccetta

Mabel Chou

Kalyanmoy Deb

Ding-Zhu Du

Rentsen Enkhbat

Shu-Cherng Fang

Satoru Fujishige

Genetha Gray

Bingsheng He

Alejandro Jofre

Christian Kanzow

Donghui Li

Li-Zhi Liao

Zhi-Quan Luo

Shinji Mizuno

Daniel Ralph

Kok Lay Teo

Michel A. Thera

Shouyang Wang

Soon-yi Wu

Akiko Yoshise

Ya-xiang Yuan

Jian-Zhong Zhang

Shuzhong Zhang

Coordinators

Koji Aoyama

Toshi Takahashi

Editorial Office

The Journals Office, Yokohama Publishers

**101, 6-27 Satsukigaoka Aoba-ku,
Yokohama 227-0053, JAPAN**

Copyright © 2014 **Yokohama Publishers**
<http://www.ybook.co.jp> E-mail info@ybook.co.jp

ISSN 1348-9151

CONTENTS

Special Issue in Honor of the 60th Birthday of Prof. S.-C. Fang

Words from the guest editors: R.-L. SHEU, J. SUN AND W. XING	435
NAOHIKO ARIMA, SUNYOUNG KIM AND MASAKAZU KOJIMA Simplified copositive and Lagrangian relaxations for linearly constrained quadratic optimization problems in continuous and binary variables	437
YAZHENG DANG, FANWEN MENG AND JIE SUN Convergence of an algorithm for the split common fixed-point of asymptomatic quasi-nonexpansive operators	453
YONG HSIA, GANG-XUAN LIN, RUEY-LIN SHEU A revisit to quadratic programming with one inequality quadratic constraint via matrix pencil	461
JING JIAO AND JINXING XIE A comparison of network inefficiency between logit-based stochastic user equilibrium and deterministic user equilibrium	483
QINGWEI JIN, SHU-CHERNG FANG, CHENG LU AND WENXUN XING Solving conic quadratically constrained quadratic programming problems	503
JEN-YEN LIN, SI-XIAN LI AND MING-JONG YAO The EOQ models under both options of cash discount and delay in payment	517
RYAN LOXTON, QUN LIN AND KOK LAY TEO Switching time optimization for nonlinear switched systems: direct optimization and the time-scaling transformation	537
I-LIN WANG An algebraic decomposed algorithm for all pairs shortest paths	561
ZHENBO WANG, WENYI HONG AND DONG HE A combination of parallel machine scheduling and the covering problem	577
JING ZHOU, ZHIBIN DENG, SHU-CHERNG FANG AND WENXUN XING Detection of a copositive matrix over a p -th order cone	593

Regular Papers

YONG WANG, SHENGLONG HU AND HONGYAN NI A family of generalized NCP-functions and a smoothing reformulation of D-eigenvalues	613
LIPU ZHANG, YANQIN BAI, YINGHONG XU, ZHENGJING JIN An improved infeasible interior-point method with full-Newton step for linear optimization	631

Contents

Special Issue in Honor of the 60th Birthday of Prof. S.-C. Fang

- Words from the guest editors: R.-L. SHEU, J. SUN AND W. XING 435
- NAOHIKO ARIMA, SUNYOUNG KIM AND MASAKAZU KOJIMA
Simplified copositive and Lagrangian relaxations for linearly constrained quadratic optimization problems in continuous and binary variables 437
- YAZHENG DANG, FANWEN MENG AND JIE SUN
Convergence of an algorithm for the split common fixed-point of asymptomatic quasi-nonexpansive operators 453
- YONG HSIA, GANG-XUAN LIN, RUEY-LIN SHEU
A revisit to quadratic programming with one inequality quadratic constraint via matrix pencil 461
- JING JIAO AND JINXING XIE
A comparison of network inefficiency between logit-based stochastic user equilibrium and deterministic user equilibrium 483
- QINGWEI JIN, SHU-CHERNG FANG, CHENG LU AND WENXUN XING
Solving conic quadratically constrained quadratic programming problems 503
- JEN-YEN LIN, SI-XIAN LI AND MING-JONG YAO
The EOQ models under both options of cash discount and delay in payment 517
- RYAN LOXTON, QUN LIN AND KOK LAY TEO
Switching time optimization for nonlinear switched systems: direct optimization and the time-scaling transformation 537
- I-LIN WANG
An algebraic decomposed algorithm for all pairs shortest paths 561
- ZHENBO WANG, WENYI HONG AND DONG HE
A combination of parallel machine scheduling and the covering problem 577
- JING ZHOU, ZHIBIN DENG, SHU-CHERNG FANG AND WENXUN XING
Detection of a copositive matrix over a p -th order cone 593

Regular Papers

- YONG WANG, SHENGLONG HU AND HONGYAN NI
A family of generalized NCP-functions and a smoothing reformulation of D-eigenvalues 613
- LIPU ZHANG, YANQIN BAI, YINGHONG XU, ZHENGJING JIN
An improved infeasible interior-point method with full-Newton step for linear optimization 631