

11th International Symposium on Operations Research and its Applications in Engineering, Technology and Management

(ISORA 2013)

IET Conference Publications 644

**Huangshan, China
23 – 25 August 2013**

ISBN: 978-1-63266-548-5

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2013) by the Institution of Engineering and Technology
All rights reserved.

Printed by Curran Associates, Inc. (2014)

For permission requests, please contact the Institution of Engineering and Technology
at the address below.

Institution of Engineering and Technology
P. O. Box 96
Stevenage, Hertfordshire
U.K. SG1 2SD

Phone: 01-441-438-767-328-328
Fax: 01-441-438-767-328-375

www.theiet.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

Optimization Model And Simulation For Improving Ambulance Service System	1
<i>H. Morohosi, T. Furuta</i>	
Color Calibration Model Of Skin Lesion Images For Computer-Aided Diagnostic	4
<i>L. Nowak, M. Pawlowski, K. Grzesiak-Kopec, M. Ogorzalek</i>	
The Multi-Covering Emergency Service Facility Location Problem With Considering Disaster Losses.....	9
<i>W. Zhou, Z. Li</i>	
Resource Loading: Applications And Complexity Analysis.....	15
<i>F. Nobibon, R. Leus, K. Nip, Z. Wang</i>	
Robust P-Median Model For Facility Location Problem Based On Scenario Analysis In Emergency Management.....	20
<i>J. Zhu, J. Huang, D. Liu</i>	
Lower Bounds For The Multislope Ski-Rental Problem	24
<i>H. Fujiwara, Y. Konno, T. Fujito</i>	
Reliable Telecommunication Network Design Problem Under Node Failure	30
<i>T. Liu, W. Yang, R. Bu, J. Huang</i>	
Investigating Major Factors To Affect Human Casualties Of Natural Disasters And Reviewing Recovery Policies	38
<i>N. Parwanto, T. Oyama</i>	
Joint Pricing And Production Decisions For New And Remanufactured Products	47
<i>H. Li, X. Ding, J. Zhang</i>	
Communication Leading To Coalition Nash Equilibrium Ii – S4n-Knowledge Case –	52
<i>T. Matsuhisa</i>	
Integer Linear Programming For Transforming Pairwise Based Results To The Original Ratings.....	59
<i>P. Ji, J. Jin</i>	
Enumeration Of Region Partitioning For Evacuation Planning Based On ZDD	65
<i>A. Takizawa, Y. Takechi, A. Ohta, N. Katoh, T. Inoue, T. Horiyama, J. Kawahara, S. Minato</i>	
Performance Evaluation for the Energy Saving Mode for DRX in LTE Systems.....	73
<i>S. Jin, Y. Zhang, W. Yue</i>	
The Phase 1 Simplex Algorithm on the Objective Hyperplane.....	78
<i>P. Gao</i>	
Mathematical Models for the Best Water Usage Strategy.....	83
<i>Z. Li, J. Hu, F. Zhao</i>	
Wake Homing Torpedo Confronts with Warship Based on Game Theory	87
<i>Z. Sun, W. Zhu, C. Xue</i>	
A Universal Model with Arithmetic of Two Turn Angle Shooting for Predetermined Encountering State	91
<i>H. Dong, M. Lu, C. Xue</i>	
Optimization Methods on the Planning of the Time Slots in TD-SCDMA System	95
<i>Z. Jiang, S. Gao</i>	
Inverse DEA Model with Considering Returns to Scale and Elasticity.....	100
<i>X. Li, J. Cui</i>	
A Minimum Cost k-Reliable Network Interdiction Model.....	105
<i>J. Zhao, J. Wang, H. Yu</i>	
Design and Analysis of a Maintenance Service Contract	110
<i>Z. Lian, J. Wu</i>	
A Method of Information Quality Assessment of Ship ASW Operation.....	116
<i>J. Liu, C. Xue, Y. Wang</i>	
The Optimization of Gas Pipeline Transmission and End Segment Storage in Gas Network	120
<i>Y. Xu, Y. Ma, X. Zhang, S. Li, Y. Wang, N. Zhang</i>	
Non-Negative Matrix Factorization Based on Locally Linear Embedding.....	125
<i>C. Han, G. Shao, Y. Hao, A. Yong, T. Guo</i>	
On the Use of Hybrid Models in Wedge Trust Region	129
<i>Y. Yang, Q. Zhou, F. Xu, P. Zhou</i>	
A Hybrid Algorithm of Two Kinds of Trust Region Methods	137
<i>P. Zhou, Q. Zhou, Y. Yang, Y. Wang</i>	
Label-Based Multiple Kernel Learning for Classification	141
<i>B. Yang, Q. Li, L. Song, C. Fu, L. Jing</i>	

Least Squares Support Tensor Machine	146
<i>M. Lv, X. Zhao, L. Song, H. Shi, L. Jing</i>	
Equilibrium Strategies in an M/M/1 Queue with Setup Times and a Single Vacation Policy	152
<i>D. Yue, R. Tian, W. Yue, Y. Qin</i>	
Optimal Portfolio Selection Based on Satisfaction Index	158
<i>H. Liu</i>	
Dynamic Traveling Salesman Problem with Deadline Based on Traveler's Risk Attitude	163
<i>Q. Guo, J. Zhu</i>	
A New Support Vector Machine for the Classification of Positive and Unlabeled Examples	169
<i>J. Tan, L. Zhen, N. Deng, C. Zhang</i>	
Research on the Optimal Train Ticket Overbooking Strategy for Transportation During the Spring Festival	177
<i>Z. Liang, S. Wen, F. Yang</i>	
Biased Locality-Sensitive Support Vector Machine Based on Density for Positive and Unlabeled Examples Learning	181
<i>L. Song, B. Yang, T. Ke, X. Zhao, L. Jing</i>	
A Study of Inflammation Immunization Strategy in Weighted Complex Network	187
<i>H. Li, C. Zhang, X. Zhang</i>	
Method of Centres for Solving Mathematical Programs with Fuzzy Parametric Variational Inequality Constraints	194
<i>H. Lan, C. Liu, T. Lu</i>	
Using Cellular Automata to Model Evolutionary Dynamics of Social Network	200
<i>J. Li, Z. Chen, T. Qin</i>	
Author Index	