Contents

Toshihide Ibaraki and Xiao-guang Yang	Т
Dynamic Inventory Management with Financial Constraints Xiuli Chao, Jia Chen and Shouyang Wang	13
Queueing Model and Performance Analysis for Discrete Time Switch Virtual Channels Systems Shunfu Jin, Wuyi Yue and Mingxin Liu	26
Analysis of an M/M/1/N Queue with Balking, Reneging and Server Vacations Yan Zhang, Dequan Yue and Wuyi Yue	37
AGV Dispatching Strategies at Automated Seaport Container Terminals Hans-Otto Günther, Martin Grunow and Matthias Lehmann	48
A Structural Analysis of World Competitiveness by the IMD — The Science and Technology Case Fujio Niwa	65
Notes on the Application of Randomized Quasi-Monte Carlo Methods to Financial Engineering Problems Hozumi Morohosi and Masanori Fushimi	80
A Spatial Equilibrium Analysis of Transmission Charge Reform in Japan's Electric Power Industry Shu-ichi Akiyama and Nobuhiro Hosoe	92
1	

Duplicating and its Applications in Batch Scheduling Yuzhong Zhang, Chunsong Bai and Shouyang Wang	108
Random Effects Logistic Regression Model for Ranking Efficiency in Data Envelopment Analysis So Young Sohn	n 118
Analysis of the Road Traffic Based on SPCP Mingzhe Li and Yan Zhang	138
From Line Search Method to Trust Region Method Zhen-Jun Shi and Xiang-Sun Zhang	156
Pseudo-Polynomial Algorithms for Min-Max and Min-Max Regre Problems Hassene Aissi, Cristina Bazgan and Daniel Vanderpooten	t 171
Computing an Integer Point of a Class of Polytopes with an Arbitrary Starting Variable Dimension Algorithm Chuangyin Dang and Hans van Maaren	y 1 7 9
The Traveling Salesman and the Quadratic Assignment Problems Integration, Modeling and Genetic Algorithm Ping Ji and William Ho	s: 198
On Hamiltonian Tetrahedralizations Of Convex Polyhedra Francis Chin, Qing-Huai Ding and Cao An Wang	206
Hierarchical Query Routing in P2P Information Filtering Systems Hiroyuki Kawano and Hirofumi Kishi	217
Polynomial-time Perfect Sampler for Closed Jackson Networks with Single Servers Shuji Kijima and Tomomi Matsui	h 227
Reduction and Exact Algorithms for the Disjunctively Constrained Knapsack Problem Aminto Senisuka, Byungjun You and Takeo Yamada	d 241
Optimal Region for Binary Search Tree, Rotation and Polytope Kensuke Onishi and Mamoru Hoshi	2 55

Contents

Robust Operations Yvo Desmedt	67
Towards Interactive Clustering on Parallel Environment Zhen Liu 2	76
An Attempt to Explore the Similarity of Two Proteins by Their Surface Shapes Xiang-Sun Zhang, Zhong-Wei Zhan, Yong Wang and Ling-Yun Wu	88
A Framework for Structural Similarity Search in Proteins Shi-Hua Zhang, De-Gang Liu and Xiang-Sun Zhang	97
Haplotype Inference by Pure Parsimony via Genetic Algorithm Rui-Sheng Wang, Xiang-Sun Zhang and Li Sheng	08
Models and Algorithms for Shortest Paths in a Time Dependent Network Yinzhen Li, Ruichun He, Zhongfu Zhang and Yaohuang Guo	19
On the Adjacent Vertex-Distinguishing Equitable-Total Chromatic Number of $P_m \vee F_n$ 3: Jinwen Li, Liying Zheng, Zhongfu Zhang, Zhiwen Wang, Bin Wei and Liho Yan	29 ong
Models and Genetic Algorithms for the Optimal Riding Routes with Transfer Times Limited in Urban Public Transportation 3-Ruichun He, Yinzhen Li and Zhongfu Zhang	40
Abstracts 35	51
Optimization Model Analyses for Measuring the Effects of Introducing Diversified Power Generating Plants Tatsuo Oyama, Hozumi Morohosi and Tomonori Satoh	51
Applying Path Counting Methods for Evaluating Edge and Node Deletion Connectivity Functions for the Water Supply Network System Tatsuo Oyama, Hozumi Morohosi and Hiroshi Ashida	52

International S	Symposium	on OF	and I	Its App	olications	2005

National Graduate Institute for Policy Studies Brian Gozun, Masashi Miwa and Tatsuo Oyama	353
An Algorithm for Optimization of Buffer Allocation in Assembly-like Queueing Systems Song Yu and Masayoshi Hasama	354
Underlying Paths in Interior Point Method for Monotone Semidefi- nite Linear Complementarity Problem Chee-Khian Sim and Gongyun Zhao	355

iv

Author Index 356