

Lecture Notes in Operations Research

5

Edited by
Xiang-Sun Zhang
De-Gang Liu
Ling-Yun Wu

OPERATIONS RESEARCH AND ITS APPLICATIONS

The Fifth International Symposium, ISORA'05
Tibet, China, August 8–13, 2005
Proceedings

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Ding-Zhu Du and Xiang-Sun Zhang (Eds.)

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ABOUT ISORA'05

THEME AND SCOPE

The 5th International Symposium on Operations Research and Its Applications (ISORA'05), organized by Asia & Pacific Operations Research Center (APORC), Institute of Applied Mathematics, Academy of Mathematics and Systems Science, CAS, and the Operations Research Society of China, is held in Lhasa–Nyingchi, Tibetan Autonomous Region, China from August 8 to 13, 2005. Cosponsors of ISORA'05 also include Natural Science Foundation of China and China Talent Fund.

ISORA is a series of international symposiums with goals to provide an international forum for scientists, researchers, educators, and practitioners to exchange ideas and approaches, to present research findings and state-of-the-art solutions, to share experiences on potentials and limits, and to open new avenues of research and developments, on all issues and topics related to the theories and applications of Operations Research. Theme of the ISORA'05 focuses on “OR in the Global and Networked World”. We are particularly interested in submissions that report on experimental and applied research motivated by real-world problems. Theoretical and applied papers are expected to show convincingly the usefulness and efficiency of optimization algorithms discussed in a practical setting. Typical, but not exclusive, topics of interest are:

- Optimization theory
- Algorithm analysis and design
- Logistics management
- Telecommunication networks
- Bioinformatics
- Applications in industry, service, finance, business and biology.

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PAPERS AND CONTRIBUTING AUTHORS

Twenty-seven full papers in this volume cover wide range of operations research theory and practice. Authors of these papers come from Canada, China mainland, Hong Kong, France, Germany, Japan, Korea, Singapore, UK, and the United States. Many leading researchers in various areas contributed their overview and introduction in their fields besides specific deep research achievements. During the symposium focusing sessions are organized such as in policy study, logistics, scheduling, uncertainty systems, bioinformatics, and computer science. Since the ISORA'05 is held in Lhasa and Nyingchi of Tibet, on the rolling hills of high plateau and stunning Himalayas, the conference size was limited. Although the over 3600m height caused unusual feeling or weakness to most of participants, academic exchange activities are successful. At the same time, we all enjoy very much the fantastic landscape of "Real Shangri-la" and unique culture of Tibetan people.

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