Industrial & Systems Engineering Department
10 Kent Ridge Crescent, Singapore 119260
Tel: (65) 6874-2203 Fax: (65) 6777-1434

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Median Problems with Two Types of Facilities on Networks

Speaker: Rongbing Huang, University of Toronto, Canada

Date: 15 Sept, 2004 (Wednesday)

Time: 10:30 a.m. – 12:00 noon

Venue: E1-06-07, Faculty of Engineering, NUS

Abstract: We consider two problems of locating facilities that serve customers who may visit several facilities in a single trip. In the Collection Depots Location Problem, a server has to visit both the demand node and one of several collection depots. The properties of the solution on a tree and on a cycle are discussed. To solve the problem on a general network, we suggest a Lagrangian Relaxation imbedded branch-and-bound algorithm. For the Multi-purpose Trip Location Problem, the properties of optimal solutions on networks with simple topologies are analyzed. We prove that there exists a dominating location set for both problems on a general network. Extensive computational experiments are presented.

About the Speaker: Rongbing Huang is a Ph.D. candidate in Operations Management at Rotman School of Management, University of Toronto. He holds a B.S. in Mathematics Statistics from East China Normal University and an M.S. in Management Information System from Fudan University (China). Prior to pursuing his Ph.D. degree at University of Toronto, he was a software engineer specializing in IP phone in BeTrue Co., Shanghai. His research interests include Location Theory, Combinatorial Optimization, Combinatorial Auction, and Service Management. Rongbing Huang has published articles in Linear Algebra and Its Applications in Journal of the Operational Research Society.

Information: email: iseowlc@nus.edu.sg
Fax: 6777-1434