Basic p-Hub Location Model

$$Mon \sum_{j \in J} \sum_{j \in S} h_{i} \left(\sum_{k \in N} c_{ik} y_{ij} + \sum_{m \in N} c_{jm} y_{jm} + \alpha \sum_{k \in N} \sum_{k \in N} c_{km} y_{ik} y_{jm} \right)$$

$$S.t. \sum_{j \in N} x_{j} = p$$

$$\sum_{j \in N} y_{ij} = 1 \qquad \forall i \in I$$

$$(33)$$

$$y_{ij} - x_{j} \le 0$$
 $\forall i \in I, \forall j \in J$ (36)

$$x_j \in \{0,1\}$$
 $\forall j \in J$ (37)

$$y_{ij} \in \{0,1\}$$
 $\forall i \in I, \forall j \in J$ (38)

- (33) Minimizes sum of cost of moving items between a non-hub node and the hub to which the node is assigned, the cost of moving from the final hub to the destination of the flow, and the interhub movement cost which is discounted by a factor of α.
- (34) through (38) identical to constraints for p-median model
- (35) each node should be assigned to exactly one hub

Hub Location Problems Chapter 1

H. A. Eiselt, Vladimir Marianov

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Mathematical Methods on Optimization in Transportation Systems M. Pursula, Jarko Niittymäki, 2013-12-14 This book contains selected papers from the presentations given at the 7th EURO Working Group Meeting on Iransportation which took place at the Helsinki University of Technology HUT Finland during August 2 4 1999 Altogether 31 presentations were given and 14 full papers have been selected in this publication through a peer review process coordinated by the editors The papers in this book cover a wide range of transportation problems from the simulation of railway traffic to optimum congestion tolling and mode choice modeling with stated preference data In general the variety of papers clearly demonstrates the wide areas of interest of people who are involved in the research of transportation systems and their operation They as well demonstrate the importance and possibilities of modeling and theoretical approaches in the analysis of transportation systems and problem solving Most of the papers are purely theoretical in nature that is they present a theoretical model with only a hypothetical example of application There are however some papers which are closer to the practice or describe applications of and give interesting results of studies made by known methodologies It is especially noteworthy that half of the accepted papers deal with planning and operation of public transport **Facility Location** Reza Zanjirani Farahani, Masoud Hekmatfar, 2009-07-09 Location problems establish a set of facilities resources to minimize the cost of satisfying a set of demands customers with respect to a set of constraints This book deals with location problems It considers the relationship between location problems and other areas such as supply chains Handbook of Research on **Applied Optimization Methodologies in Manufacturing Systems** Faruk Y?lmaz, Ömer, Tüfekçí, Süleyman, 2017-11-30 Today's manufacturing systems are undergoing significant changes in the aspects of planning production execution and delivery It is imperative to stay up to date on the latest trends in optimization to efficiently create products for the market The Handbook of Research on Applied Optimization Methodologies in Manufacturing Systems is a pivotal reference source including the latest scholarly research on heuristic models for solving manufacturing and supply chain related problems Featuring exhaustive coverage on a broad range of topics such as assembly ratio car sequencing and color constraints this publication is ideally designed for practitioners seeking new comprehensive models for problem solving in manufacturing and Uncertainty in Facility Location Problems H. A. Eiselt, Vladimir Marianov, 2023-09-20 This supply chain management book deals with an often neglected feature of location problems namely uncertainty by combining two related fields location theory and optimization Written by leading researchers and practitioners in these fields each chapter examines one aspect of the location process in different contexts such as supply chains location decisions under congestion disaster management design of resilient facilities uncertainty in the health sector and facility location in the retail sector under uncertainty The book also addresses methodological aspects such as chance constrained approaches heuristic algorithms scenario approaches and simulation As such it provides decision makers with essential methods tools and approaches to help them

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