

Basic p-Hub Location Model

$$\text{Min} \sum_{j \in J} \sum_{i \in I} h_{ij} \left(\sum_{k \in N} c_{ik} y_{ij} + \sum_{m \in N} c_{jm} y_{jm} + \alpha \sum_{l \in N} \sum_{n \in N} c_{ln} y_{il} y_{jn} \right) \quad (33)$$

$$\text{s.t.} \sum_{j \in J} x_j = p \quad (34)$$

$$\sum_{i \in I} y_{ij} = 1 \quad \forall j \in J \quad (35)$$

$$y_{ij} - x_j \leq 0 \quad \forall i \in I, \forall j \in J \quad (36)$$

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

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

- (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

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