

## Airline hub-and-spoke system design under stochastic demand and hub congestion/Yang, Ta-Hui; Chiu, Tzu-Yu

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### Abstrak

This study addresses the hub network design problem considering demand uncertainty and hub congestion effects. The problem is formulated as a two-stage stochastic program with recourse model. The model provides a consistent set of hub locations, while adjusting network configuration in response to different demand realizations. A case study collected from real-world data was used to test the proposed model, and a sensitivity analysis was performed to know how several important parameters affected the solution