A hypercube queuing model for facility location and redistricting in urban emergency services.

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Abstract

This paper develops computationally efficient algorithms for studying the analytical behavior of a multi-server queuing system with distinguishable servers. The model is intended for analyzing problems of vehicle location and response district design in urban emergency services, includes interdistrict as well as intradistrict responses, and allows computation of several pointspecific as well as area-specific performance measures.

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