



Research School for Operations
Management and Logistics

Dynamic rebalancing problem for car-sharing systems

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The research goal of this project is to propose a two-layer planning model of shared car location decision-making and scheduling to solve the problem of the supply and demand imbalance of shared cars. A series of related studies have been conducted around this objective. First, consider the location, vehicle, personnel of the shared car double-decker planning model. Then design an intelligent optimization algorithm, carry out GPS data of user travel data, and analyze user demand. On this basis, a path optimization algorithm combining static and dynamic scheduling is established, which provides algorithm support to solve the problem of the imbalance between supply and demand of shared cars.