

The application of optimization model of off-street parking management with dynamic simulation

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Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=9999920532508&lokasi=lokal>

Abstrak

Freight transport plays a very important role in economic activities. However, in some cases, the local transportation authority often disregards its existence, including in parking management issues. This research is aimed at developing an optimization model for off-street parking space management that considers freight cars and passenger cars as two different entities. Optimization aims at minimizing the joint function of the parking index of freight cars and the parking index of passenger cars. Weighting is given to both parking indexes to represent the interest level of parking operator to both types of vehicles. Parking space of both vehicles is at any time is arranged in a dynamic manner based on the inflow and outflow rate of vehicles at previous times. The parking index is limited by the maximum parking index desired by the management. The proposed model is applied to the parking activity in Jatinegara Trade Center (JTC), Jakarta, and shows that the model solution provides a better parking index than the actual parking index (without optimization).