

ABSTRACT

Transportation service plan information, movement demand prediction information, transportation service congestion information, and traffic congestion information are acquired. The transportation service plan information is information regarding an operation plan and operation status of transportation services operated by public transportation in a prediction target area. The movement demand prediction information is prediction information regarding movement demand between points in the prediction target area. The transportation service congestion information is information regarding a congestion degree of the transportation services. The traffic congestion information is information regarding congestion state of road traffic in the prediction target area. A route model is created which combines public transportation and road traffic between two points in the prediction target area. In the route model between a departure point and a destination point of the movement demand included in the movement demand prediction information, a moving route from the departure point to the destination point is extracted. A utility value for each moving route is calculated based on an evaluation index including the transportation service congestion information and traffic congestion information on the moving route. Based on the utility value, shared

moving persons are allocated to each moving route and collected and output for each public transportation.

Fig. 8