

A Geographic Information System to Understand the Actual Situation of Freight Transport

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Because the situations of logistics and freight transport have less opportunity to be exposed to the popular eyes of society, it is difficult to appropriately evaluate the transport means such as rail freight train and truck. Therefore, in this study, a geographic information system of freight transportation by utilizing the existing data concerning freight transport has been developed, in order to understand the actual transport conditions toward the increase of the efficiency of freight transport. For the transport needs of the shippers from the sending sites to the receiving sites using this GIS system, truck types & road routes, and freight station & freight train on the map can be examined and suitably selected. At the same time, by the relevant transport simulation, the freight transport conditions are visually presented, the comparative analytical evaluations between the rail freight and truck are performed and the relevant indices are calculated. The information to be obtained by using the developed GIS can be used for the decision support to beneficial transport planning of the users and operators.