

公路汽車客運路線審議作業空間決策輔助指標之建立與應用

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摘要

The quality of intercity bus review process is the key factor affecting the healthy development of intercity bus operation environments. However, due to the insufficient decision support information, the Intercity Bus Reviewers are usually forced to make subjective decisions. To enhance the decision quality, this paper aims to analyze the importance and necessity of a total of twelve spatial analytic factors in the review processes, such as new route open, route adjustment, route termination, ...etc. through a questionnaire survey on the members of Intercity Bus Review Committee. Meanwhile, with the spatial analysis capability of Geographic Information System (GIS), eight analytical indices are proposed based on the databases of intercity bus network, distribution of residential population, major attractions, and transportation demand. Two field cases of route termination (ChuTong-TouZi) and new route open (HuKau-HSR HsinChu Station) are studied. The results show that the proposed indices can clearly reflect the effects of two routes to the population served, ratio of overlapping routes, local transportation demand and temporal accessibility. Obviously, the proposed spatial decision support information is very helpful to the intercity bus operation review process.

關鍵字： Intercity bus review process, spatial analytical factors, geographic information system.