Analysis of Approaches to Short Term Passenger Volume Prediction in Public Transport

International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 131

Number 10

Year of Publication: 2015

Authors:

Abhijeet Shingade, Adesh Atole, Piyush Galphat, Shashank Dharmadhikari, Bhushan Thakare

10.5120/ijca2015907434

Abstract

Public Transport systems form an integral part in development of city. The development of the city can be correlated to the proportion of its population adopting public transport as its primary mode of transport. For organizations, which provide public transport services in a city, it will be beneficial to have real-time intelligent scheduling and dispatching system. To have a functional intelligent scheduling system, it is necessary to build a passenger flow prediction system, which predicts the flow of passengers based on historical data and environmental conditions. This paper presents various approaches for transit passenger volume prediction, merits and demerits of each.

References

1. Mo Yikui, So Yongyun, Neural network based real time transit passenger volume prediction, Power Electronics and Intelligent Transportation System (PEITS), 2009 2nd
International Conference on (Volume:2)
2. Hui Sun, Yuchun Li, Zhiqing Fan, Ye Shi, Competitiveness Analysis of Urban Public Transport Based on SVM, Logistics Systems and Intelligent Management, 2010 International Conference (Volume:1)

Index Terms
Keywords

forecasting, grey model, interactive multiple model, neural networks, public transport, support vector machines