

Accepted Manuscript

Spatial analysis of bus transport networks using network theory

Shanmukhappa Tanuja, Ivan W.H. Ho, Chi Kong Tse

PII: S0378-4371(18)30202-4
DOI: <https://doi.org/10.1016/j.physa.2018.02.111>
Reference: PHYSICA 19231

To appear in: *Physica A*

Received date: 6 October 2017
Revised date: 9 January 2018

Please cite this article as: S. Tanuja, I.W.H. Ho, C.K. Tse, Spatial analysis of bus transport networks using network theory, *Physica A* (2018), <https://doi.org/10.1016/j.physa.2018.02.111>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



HIGHLIGHTS

1. The work majorly emphasizes on the study of topological behavior of the bus transport network structure of three cities: Hong Kong, London and Bengaluru.
2. A novel approach called supernode graph structuring is proposed for modeling the bus transport network.
3. A static demand estimation procedure is proposed to assign the node weights.
4. The end-to-end delay is employed to measure the topological efficiency.
5. The impact of geographically central nodes on local traffic behavior is demonstrated by both simulation and empirical data.

Download English Version:

<https://daneshyari.com/en/article/7375520>

Download Persian Version:

<https://daneshyari.com/article/7375520>

[Daneshyari.com](https://daneshyari.com)