



Institute of Transport Studies (Monash)
The Australian Research Council Key Centre in Transport Management

**Institute of Transport Studies, Monash
University
World Transit Research**

World Transit Research Newsletter

4-2018

World Transit Research April 2018 Newsletter

Institute of Transport Studies Monash University

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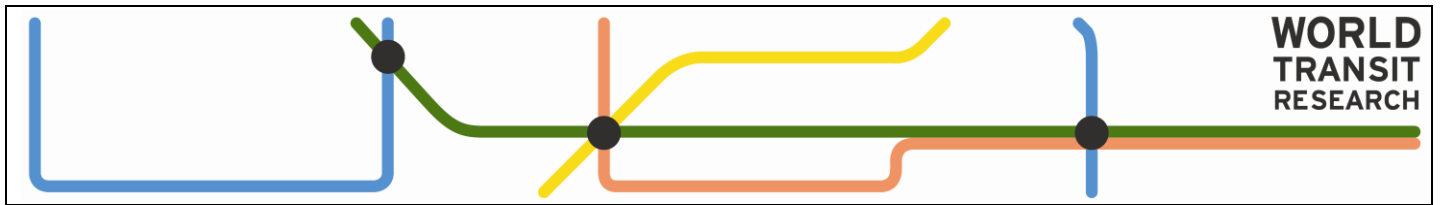
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MONASH University



World Transit Research

April 2018 Newsletter

<http://www.worldtransitresearch.info>

Welcome to the WORLD TRANSIT RESEARCH (WTR) clearinghouse newsletter. This newsletter, which is published bi-monthly, summarises new research published in the field which has been added to the World Transit Research clearinghouse research database.

WTR is now used by public transport researchers in over 8,000 cities and towns in 170 countries worldwide.

BACKGROUND

World Transit Research (WTR) is designed to help public transport practitioners and researchers get easier access to quality research in the field of public transport planning. WTR is a free repository of research papers, reports, research abstracts and links to research findings from leading research journals indexed and searchable to ensure easier access to topics of interest. The site is developed and run by the [Public Transport Research Group](#) at the Institute of Transport Studies, Monash University. The clearinghouse performs the following functions:

- Search/Find – The database is searchable on key words and also via a list of subject areas
- Newsletter Subscription – Those accessing the website can enrol in a free email newsletter. This broadcasts new publications in the field every 2 months
- Links – links to relevant associated sites are provided
- Submit Research – Researchers can use the website to suggest items for inclusion in the database. Copyright requirements are described.

NEWSLETTER

Your recommendation can help grow our number of subscribers. Do you know someone interested in public transport research that would like to receive this newsletter? Ask them to go to <http://www.worldtransitresearch.info/> and enter their email address in the box provided under Newsletter.

NEW ADDITIONS

World Transit Research clearinghouse now includes some 6,821 research reports/papers. Some 75 published papers have been added. The new ones are listed in the attached table. In addition new journals and relevant papers are also occasionally added from previous publication records.

CONTRIBUTE YOUR RESEARCH AND INCREASE YOUR CITATIONS

Should you have any relevant papers that you think should be included in this repository, please log on to www.worldtransitresearch.info and click on the Submit Research icon. The WTR Clearinghouse is a very effective tool to increase author citations of research since it acts to publicise your research to those interested in this field.

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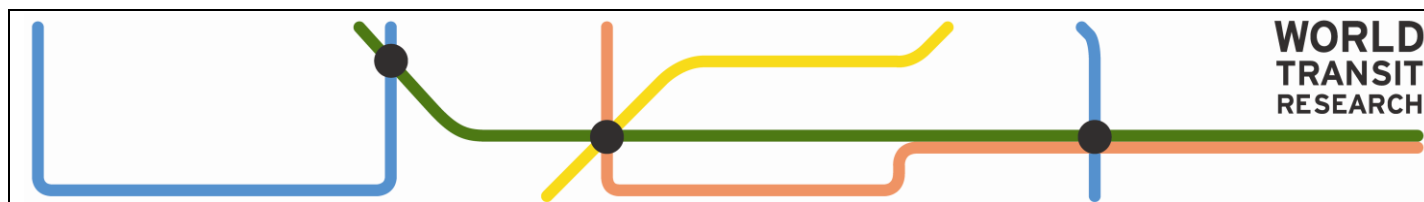
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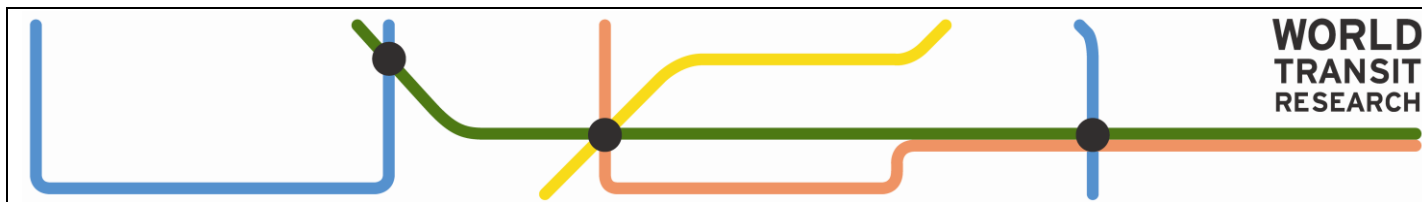
If you have any queries or suggestions on how to improve our publication, we would love to hear from you at: enquiries@worldtransitresearch.info

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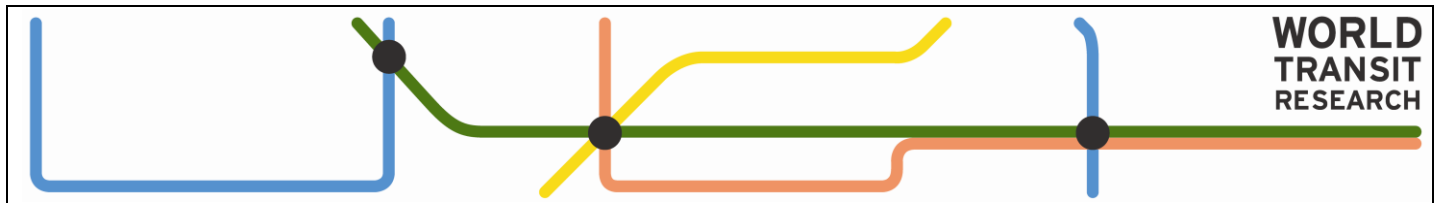


WORLD TRANSIT RESEARCH – NEW RESEARCH PUBLICATIONS

AUTHOR	TITLE	CATEGORY
H Cheng, C Mao, S Madanat, A Horvath	Minimizing the total costs of urban transit systems can reduce greenhouse gas emissions: The case of San Francisco*	Planning
Y Chen, B Yi, Y Jiang, J Sun, M Wahab	Inter-arrival time distribution of passengers at service facilities in underground subway stations: A case study of the metropolitan city of Chengdu in China*	Planning
X Feng, X Zhu, X Qian, Y Jie, F Ma, X Niu	A new transit network design study in consideration of transfer time composition*	Planning
H Motieyan, M Mesgari	An Agent-Based Modeling approach for sustainable urban planning from land use and public transit perspectives*	Planning
A Lieberoth, N Holm Jensen, T Bredahl	Selective psychological effects of nudging, gamification and rational information in converting commuters from cars to buses: A controlled field experiment*	Planning
R Wei, X Liu, Y Ou, S Kiavash Fayyaz,	Optimizing the spatio-temporal deployment of battery electric bus system*	Planning
D Wang, A Nayan, W Szeto	Optimal bus service design with limited stop services in a travel corridor*	Planning
A Karner	Assessing public transit service equity using route-level accessibility measures and public data*	Planning
Z Zhao, H Koutsopoulos, J Zhao	Individual mobility prediction using transit smart card data*	Planning
L Eboli, C Forciniti, G Mazzulla	Spatial variation of the perceived transit service quality at rail stations*	Planning
N Olikier, S Bekhor	A frequency based transit assignment model that considers online information*	Planning
N Ghaemi, O Cats, R Goverde	Macroscopic multiple-station short-turning model in case of complete railway blockages*	Planning
C Mulley, L Ma, G Clifton, M Tanner	Are Network Planning Guidelines Based on Equal Access Equitable?*	Planning
J Casello, P Fard	Automated Tool for Geographic Information Systems That Supports Transit Network Design by Identifying Urban Activity Centers*	Planning
N Zheng, T Dantsuji, P Wang, N Geroliminis	Macroscopic Approach for Optimizing Road Space Allocation of Bus Lanes in Multimodal Urban Networks Through Simulation Analysis*	Planning
R Liu, Y Chen, J Wu, T Xu, L Gao, X Zhao	Mapping spatial accessibility of public transportation network in an urban area – A case study of Shanghai Hongqiao Transportation Hub*	Planning
A Anund, C Fors, J Ihlström, G Kecklund	An on-road study of sleepiness in split shifts among city bus drivers*	Planning
T Robenek, S Azadeh, Y Maknoon, M de Lapparent, M Bierlaire	Train timetable design under elastic passenger demand*	Ridership
X Li, W Liu, H Yang	Traffic dynamics in a bi-modal transportation network with information provision and adaptive transit services*	Ridership
D Nguyen-Phuoc, G Currie, C De Gruyter, W Young	Transit user reactions to major service withdrawal – A behavioural study*	Ridership
D Nguyen-Phuoc, G Currie, C De Gruyter, W Young	How do public transport users adjust their travel behaviour if public transport ceases? A qualitative study*	Ridership
L Fordham, E Grisé, A El-Geneydy	When I'm 64: Assessing Generational Differences in Public Transit Use of Seniors in Montreal, Quebec, Canada*	Ridership
H Yang, Y Tang	Managing rail transit peak-hour congestion with a fare-reward scheme*	Ridership
Y Ji, L Gao, D Chen, X Ma, R Zhang	How does a static measure influence passengers' boarding behaviors and bus dwell time? Simulated evidence from Nanjing bus stations*	Ridership
R Guo, W Szeto	Day-to-day modal choice with a Pareto improvement or zero-sum revenue scheme*	Ridership
C Toşa, H Sato, T Morikawa, T Miwa	Commuting behavior in emerging urban areas: Findings of a revealed-preferences and stated-intentions survey in Cluj-Napoca, Romania*	Ridership
H Khoo, M Ahmed	Modeling of passengers' safety perception for buses on mountainous roads*	Ridership
N Jia, L Li, S Ling, S Ma, W Yao	Influence of attitudinal and low-carbon factors on behavioral intention of commuting mode choice – A cross-city study in China*	Ridership
P Gu, D He, Y Chen, P Christopher Zegras, Y Jiang	Transit-oriented development and air quality in Chinese cities: A city-level examination*	Land use
X Huang, X Cao, J Yin, X Cao	Can metro transit reduce driving? Evidence from Xi'an, China*	Land use
K Kühne, S Mitra, J Saphores	Without a ride in car country – A comparison of carless households in Germany and California*	Land use
H Yu, J Jiao, E Houston, Z Peng	Evaluating the relationship between rail transit and industrial agglomeration: An observation from the Dallas-fort worth region, TX*	Land use
A Nelson	Transit and Real Estate Rents*	Land use



F Jones, J Sloboden	Jacksonville, Florida, Transportation Authority's Mobility Corridors: Improving Transit System Performance Through Enhanced Safety and Urban Design*	Land use
S Akbari, M Mahmoud, A Shalaby, K Nurul Habib	Empirical models of transit demand with walk access/egress for planning transit oriented developments around commuter rail stations in the Greater Toronto and Hamilton Area*	Land use
C Mulley, C Tsai, L Ma	Does residential property price benefit from light rail in Sydney?*	Land use
H Iseki, R Jones	Analysis of firm location and relocation in relation to Maryland and Washington, DC metro rail stations*	Land use
J Lee, H Miller	Measuring the impacts of new public transit services on space-time accessibility: An analysis of transit system redesign and new bus rapid transit in Columbus, Ohio, USA*	Land use
J Dubé, D Legros, N Devaux	From bus to tramway: Is there an economic impact of substituting a rapid mass transit system? An empirical investigation accounting for anticipation effect*	Land use
P Shang, R Li, Z Liu, L Yang, Y Wang	Equity-oriented skip-stopping schedule optimization in an oversaturated urban rail transit network*	Operations
S Berrebi, S Crudden, K Watkins	Translating research to practice: Implementing real-time control on high-frequency transit routes*	Operations
W Huang, B Shuai, Y Sun, Y Wang, E Antwi	Using entropy-TOPSIS method to evaluate urban rail transit system operation performance: The China case*	Operations
Z Jiang, W Fan, W Liu, B Zhu, J Gu	Reinforcement learning approach for coordinated passenger inflow control of urban rail transit in peak hours*	Operations
J Fonseca, E van der Hurk, R Roberti, A Larsen	A matheuristic for transfer synchronization through integrated timetabling and vehicle scheduling*	Operations
J Shi, L Yang, J Yang, Z Gao	Service-oriented train timetabling with collaborative passenger flow control on an oversaturated metro line: An integer linear optimization approach*	Operations
J Holmgren	The effects of using different output measures in efficiency analysis of public transport operations*	Operations
S Zhang, H Lo	Two-way-looking self-equalizing headway control for bus operations*	Operations
R Abenoza, D Ettema, Y Susilo	Do accessibility, vulnerability, opportunity, and travel characteristics have uniform impacts on the traveler's experience?*	Infrastructure
P Love, J Zhou, J Matthews, M Lavender, T Morse	Managing rail infrastructure for a digital future: Future-proofing of asset information*	Infrastructure
Y Farid, E Christofa, J Collura	An analytical model to conduct a person-based evaluation of transit preferential treatments on signalized arterials*	Infrastructure
National Academies of Sciences, Engineering, and Medicine	Battery Electric Buses—State of the Practice*	Infrastructure
National Academies of Sciences, Engineering, and Medicine	Legal Implications of Video Surveillance on Transit Systems*	Infrastructure
P Durango-Cohen, E McKenzie	Trading off costs, environmental impact, and levels of service in the optimal design of transit bus fleets*	Infrastructure
P Shen, Z Zhao, J Li, X Zhan	Development of a typical driving cycle for an intra-city hybrid electric bus with a fixed route*	Infrastructure
Y Sun, Y Cui	Evaluating the coordinated development of economic, social and environmental benefits of urban public transportation infrastructure: Case study of four Chinese autonomous municipalities*	Infrastructure
L Kieu, Y Ou, C Cai	Large-scale transit market segmentation with spatial-behavioural features*	Technology
S Van Thielen, F Corman, P Vansteenwegen	Considering a dynamic impact zone for real-time railway traffic management*	Technology
J Ingvardson, O Nielsen, S Raveau, B Nielsen	Passenger arrival and waiting time distributions dependent on train service frequency and station characteristics: A smart card data analysis*	Technology
J Gordon, H Koutsopoulos, N Wilson	Estimation of population origin–interchange–destination flows on multimodal transit networks*	Technology
W Lee, S Sohn, J Heo	Utilizing mobile phone-based floating population data to measure the spatial accessibility to public transit*	Technology
X Liu, Y Zhou, A Rau	Smart card data-centric replication of the multi-modal public transport system in Singapore*	Technology
F Canitez, D Çelebi	Transaction cost economics of procurement models in public transport: An institutional perspective*	Organisation
J Cowie	Long term productivity gains in the privatised British passenger rail industry – A case study of Malmquist productivity index measurements*	Organisation
J Mendez, J Brown	Planning Approaches in Contracted Fixed-Route Bus Transit Service in the United States: Private Sector's Role in the Planning Process and Its Influence on Performance Outcomes*	Organisation



G Currie, L Truong, C De Gruyter	Regulatory structures and their impact on the sustainability performance of public transport in world cities*	Organisation
F Hirschhorn, W Veeneman, D van de Velde	Inventory and rating of performance indicators and organisational features in metropolitan public transport: A worldwide Delphi survey*	Organisation
M Börjesson, C Fung, S Proost, Z Yan	Do buses hinder cyclists or is it the other way around? Optimal bus fares, bus stops and cycling tolls*	Economics
M Batarce, P Galilea	Cost and fare estimation for the bus transit system of Santiago*	Economics
R Sharma, P Newman	Can land value capture make PPP's competitive in fares? A Mumbai case study*	Economics
J Falcocchio, A Malik, C Kontokosta	A data-driven methodology for equitable value-capture financing of public transit operations and maintenance*	Economics
D Lee	A multi-criteria approach for prioritizing advanced public transport modes (APTMs) considering urban types in Korea*	Mode
R Palakurthy, L Tung, L Cryer, L Bell	Trip Generation Rates at Park-and-Ride Facilities with Regional Bus and Light Rail Service: A Supplement to ITE Trip Generation Data*	Mode
H Bouscasse, I Joly, P Bonnel	How does environmental concern influence mode choice habits? A mediation analysis*	Mode
S Nazari Adli, S Donovan	Right to the city: Applying justice tests to public transport investments*	Policy
E Gris�, G Boisjoly, M Maguire, A El-Geneidy	Elevating access: Comparing accessibility to jobs by public transport for individuals with and without a physical disability	Policy

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