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

12-2016

World Transit Research December 2016 Newsletter

Institute of Transport Studies Monash University

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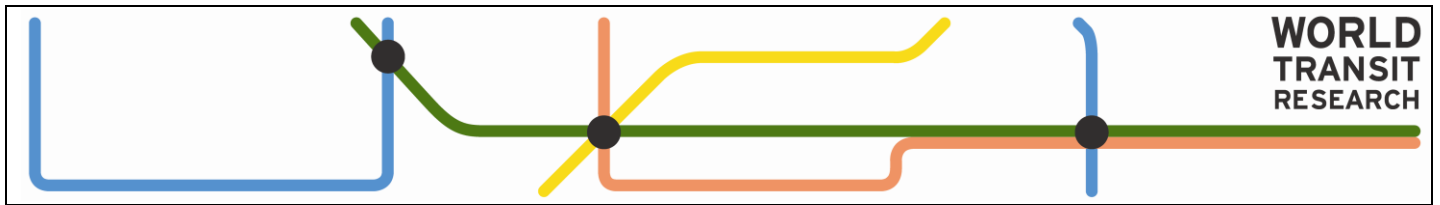
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MONASH University



World Transit Research

December 2016 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 6,190 research reports/papers. Some 93 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.

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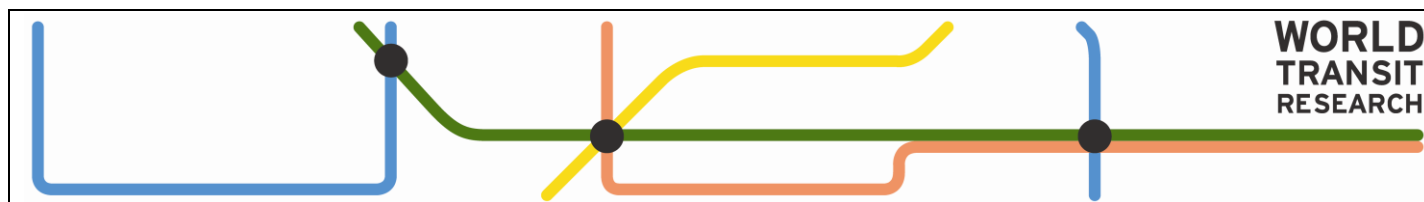
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Articles on the following two pages denoted with an asterisk * are from Journals that require a subscription to view the full article.

SUGGESTIONS WELCOMED

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
Z Shi, N Zhang, Y Zhang	Hazard-Based Model for Estimation of Congestion Duration in Urban Rail Transit Considering Loss Minimization*	Planning
L Cadarso, Á Marín	Combining robustness and recovery in rapid transit network design*	Planning
J de Oña, R de Oña, L Eboli, C Forciniti, G Mazzulla	Transit passengers' behavioural intentions: the influence of service quality and customer satisfaction*	Planning
O J Ibarra-Rojas, J C Muñoz	Synchronizing different transit lines at common stops considering travel time variability along the day*	Planning
H Larrain, J C Muñoz	When and where are limited-stop bus services justified?*	Planning
J Parbo, O A Nielsen, C G Prato	Passenger Perspectives in Railway Timetabling: A Literature Review*	Planning
Z Ye, C Wang, Y Yu, X Shi, W Wang	Modeling level-of-safety for bus stops in China*	Planning
J Lederer, C Ott, P H Brunner, M Ossberger	The life cycle energy demand and greenhouse gas emissions of high-capacity urban transport systems: A case study from Vienna's subway line U2*	Planning
J P Bocarejo, D Escobar, D O Hernandez, D Galarza	Accessibility analysis of the integrated transit system of Bogotá*	Planning
J Chai, J Lee, M Kamruzzaman	Walking to public transit: Exploring variations by socioeconomic status*	Planning
L A Lindau, G Petzhold, V B Tavares, D Facchini	Mega events and the transformation of Rio de Janeiro into a mass-transit city*	Planning
G Hoy, E Morrow, A Shalaby	Use of Agent-Based Crowd Simulation to Investigate the Performance of Large-Scale Intermodal Facilities: Case Study of Union Station in Toronto, Ontario, Canada*	Planning
S Saidi, Y Ji, C Cheng, J Guan, S Jiang, L Kattan, Y Du, S C Wirasinghe	Planning Urban Ring Rail Transit Lines: Case Study of Shanghai, China*	Planning
Y Wang, X Pan, S Sue, F Cao, T Tang, B Ning, B De Schutter,	Integrated Line Planning and Train Scheduling for an Urban Rail Transit Line*	Planning
Y E Hawas, M N Hassan, A Abulibdeh	A multi-criteria approach of assessing public transport accessibility at a strategic level*	Planning
R Camporeale, L Caggiani, A Fonzone, M Ottomanelli	Quantifying the impacts of horizontal and vertical equity in transit route planning*	Planning
Y Shi, S Blainey, N Hounsell	Using GIS to assess the potential for centralised planning of bus networks*	Planning
O Alotaibi, D Potoglou	Perspectives of travel strategies in light of the new metro and bus networks in Riyadh City, Saudi Arabia*	Planning
Planning and Transport Research Centre (PATREC)	Mass Rapid Transit for Perth & Peel @ 3.5 Million and Beyond	Planning
J Louie, A Shalaby, K N Habib	Modelling the impact of causal and non-causal factors on disruption duration for Toronto's subway system: An exploratory investigation using hazard modelling*	Planning
M J Roberts, D Rose	Map-induced journey-planning biases for a simple network: A Docklands Light Railway study*	Planning
L Budd, S Ison, T Budd	Improving the environmental performance of airport surface access in the UK: The role of public transport*	Planning
J J G de Aragão, Y Yamashita, R D O Filho	BRT in Brazil: Designing services in function of given infrastructure projects or designing infrastructure in function of established service quality patterns?*	Planning
L Sagaris, A Arora	Evaluating how cycle-bus integration could contribute to "sustainable" transport*	Planning
J L Machado-León, R de Oña, T Baouni, J de Oña	Railway transit services in Algiers: priority improvement actions based on users perceptions*	Planning
A Fielbaum, S Jara-Díaz, A Gschwender	Optimal public transport networks for a general urban structure*	Planning
W Kou, X Chen, L Yu, Y Qi, Y Wang	Urban commuters' valuation of travel time reliability based on stated preference survey: A case study of Beijing*	Planning
D Birago, S O Mensah, S Sharma	Level of service delivery of public transport and mode choice in Accra, Ghana*	Planning
M Ng, H K Lo	Robust models for transportation service network design*	Planning
S K Fayyaz, X Liu, R J Porter	Genetic Algorithm and Regression-Based Model for Analyzing Fare Payment Structure and Transit Dwell Time*	Technology
M Dunlap, Z Li, K Henrickson, Y Wang	Estimation of Origin and Destination Information from Bluetooth and Wi-Fi Sensing for Transit*	Technology

M M Rahman, S C Wirasinghe, L Kattan	The effect of time interval of bus location data on real-time bus arrival estimations*	Technology
A Nuzzolo, A Comi	Advanced public transport and intelligent transport systems: new modelling challenges*	Technology
G Ambrosino, J D Nelson, M Boero, I Pettinelli	Enabling intermodal urban transport through complementary services: From Flexible Mobility Services to the Shared Use Mobility Agency: Workshop 4. Developing inter-modal transport systems*	Technology
G Currie, J Reynolds	Evaluating Pay-on-Entry Versus Proof-of-Payment Ticketing in Light Rail Transit*	Technology
J Antos, M D Eichler	Tapping into Delay: Assessing Rail Transit Passenger Delay with Data from a Tap-In, Tap-Out Fare System*	Technology
T Stasko, B Levine, A Reddy	Time-Expanded Network Model of Train-Level Subway Ridership Flows Using Actual Train Movement Data*	Technology
X Chu	Guidebooks for Estimating Total Transit Usage through Extrapolating Incomplete Counts	Technology
H Yu, D Chen, Z Wu, X Ma, Y Wang	Headway-based bus bunching prediction using transit smart card data*	Technology
Y Xu, H Li, H Liu, M O Rodgers, R L Guensler	Eco-driving for transit: An effective strategy to conserve fuel and emissions*	Technology
O T McCarthy, B Caulfield, M O'Mahony	How transport users perceive personal safety apps*	Technology
G E Sánchez-Martínez, H N Koutsopoulos, N H M Wilson	Optimal allocation of vehicles to bus routes using automatically collected data and simulation modelling*	Technology
I P Wallis	Demand and service impacts of competition for the market – Australian urban bus case studies*	Organisation
M J D Pedro, R Macário	A review of general practice in contracting public transport services and transfer to BRT systems*	Organisation
P Wegelin, W von Arx	The impact of alternative governance forms of regional public rail transport on transaction costs. Case evidence from Germany and Switzerland*	Organisation
D Emerson, C Mulley, M C J Bliemer	A theoretical analysis of business models for urban public transport systems, with comparative reference to a Community Franchise involving Individual Line Ownership*	Organisation
J Mizutani, M Usami	Yardstick regulation and the operators' productivity of railway industry in Japan*	Organisation
A Dementiev	Strategic partnerships in local public transport*	Organisation
P Kavanagh	A case for negotiated performance-based contracting rather than competitive tendering in government public transport (bus) service procurement*	Organisation
T Kizner, M Goldemberg, M Shapiro, B t Siethoff, X Wei, D Fogel, J Kennard, A Lu	Geographic Information System Concept of Operations as a First Step Toward Total Enterprise Asset Management: Metro-North Commuter Railroad Case Study*	Organisation
G Currie	Deregulation, Franchising, Outsourcing, and Corporatisation in Local Public Transport: International experience	Organisation
J Preston	Big buses in a small country: The prospects for bus services in Wales*	Organisation
J Preston	Deja Vu all over again? Rail franchising in Britain*	Organisation
R Buehler, A Hamre	An examination of recent trends in multimodal travel behavior among American motorists*	Ridership
B S Lee, M E Wohar, D Uhm	Bus commuting, subway commuting, and walking to workplaces in US cities: Socioeconomic factors of transit commuters*	Ridership
A Delbosc, G Currie	Four types of fare evasion: A qualitative study from Melbourne, Australia*	Ridership
X Wan, P M Schonfeld, Q Li	What factors determine metro passengers' risky riding behavior? An approach based on an extended theory of planned behavior*	Ridership
L Böcker, M Dijst, J Faber	Weather, transport mode choices and emotional travel experiences*	Ridership
D Efthymiou, C Antoniou	Understanding the effects of economic crisis on public transport users' satisfaction and demand*	Ridership
G Lyons, J Jain, I Weir	Changing times – A decade of empirical insight into the experience of rail passengers in Great Britain*	Ridership
D A Hensher, C Q Ho	Experience conditioning in commuter modal choice modelling – Does it make a difference?*	Ridership
Z Mao, D Ettema, M Dijst	Commuting trip satisfaction in Beijing: Exploring the influence of multimodal behavior and modal flexibility*	Ridership
E Heinen	Identity and travel behaviour: A cross-sectional study on commute mode choice and intention to change*	Ridership

C D Higgins, P S Kanaroglou	Forty years of modelling rapid transit's land value uplift in North America: moving beyond the tip of the iceberg*	Land use
P Chorus, L Bertolini	Developing transit-oriented corridors: Insights from Tokyo*	Land use
S Kahn, H Maoh, C Lee, W Anderson	Toward sustainable urban mobility: Investigating nonwork travel behavior in a sprawled Canadian city*	Land use
M O Beiler, B Seketa, W Swiatek	Investigating transit and pedestrian accessibility for age-restricted communities using spatial analysis*	Land use
M Kamruzzaman, D Baker, S Washington, G Turrell	Determinants of residential dissonance: Implications for transit-oriented development in Brisbane*	Land use
J Lee, K Choi, Y Leem	Bicycle-based transit-oriented development as an alternative to overcome the criticisms of the conventional transit-oriented development*	Land use
R B Noland, O T Puniello, S DiPetrillo	The Impact of Transit-Oriented Development on Social Capital	Land use
K Macias	Alternative Methods for the Calculation of Pedestrian Catchment Areas for Public Transit*	Land use
H Kim, C Kim, Y Chun	Network Reliability and Resilience of Rapid Transit Systems*	Operations
D Sun, S Guan	Measuring vulnerability of urban metro network from line operation perspective*	Operations
Y Sun, P M Schonfeld, Y Lu, M Zhou	Redesigning Rail Transit Short-Turn Operations: Case Study of Line 2 of the Shanghai Metro in China*	Operations
C M Marti, J Kupferschmid, M Schwertner, A Nash, U Weidmann	Tram Safety in Mixed Traffic: Best Practices from Switzerland*	Operations
W Lee, L Yan, C Chou	A delay root cause discovery and timetable adjustment model for enhancing the punctuality of railway services*	Operations
W Leong, K Goh, S Hess, P Murphy	Improving bus service reliability: The Singapore experience*	Operations
A Ljungberg	Marginal cost-pricing in the Swedish transport sector – An efficient and sustainable way of funding local and regional public transport in the future?*	Economics
P Guarda, P Galilea, S Handy, J C Muñoz, J de Dios Ortúzar	Decreasing fare evasion without fines? A microeconomic analysis*	Economics
S Jara-Díaz, D Cruz, C Casanova	Optimal pricing for travelcards under income and car ownership inequities*	Economics
G Weisbrod, C Mulley, D Hensher	Recognising the complementary contributions of cost benefit analysis and economic impact analysis to an understanding of the worth of public transport investment: A case study of bus rapid transit in Sydney, Australia*	Economics
J Murillo-Hoyos, M Volovski, S Labi	Rolling stock purchase cost for rail and road public transportation: random-parameter modelling and marginal effect analysis*	Economics
S Moghimidarzi, P G Furth, B Cesme	Predictive-Tentative Transit Signal Priority with Self-Organizing Traffic Signal Control*	Infrastructure
M Rahaman, G Currie, C Muir	Development and Application of a Scale to Measure Station Design Quality for Personal Safety*	Infrastructure
F Chen, J Fang, Q Wu	Study of Standing Passenger Density in Subway Cars Based on Passengers' Spatial Comfort: Case Study of Beijing Subway Line 4*	Infrastructure
G de Ana Rodríguez, S Seriani, C Holloway	Impact of Platform Edge Doors on Passengers' Boarding and Alighting Time and Platform Behavior*	Infrastructure
S Seriani, T Fujiyama, C Holloway	Exploring the pedestrian level of interaction on platform conflict areas at metro stations by real-scale laboratory experiments*	Infrastructure
D Hensher	Why is Light Rail Starting to Dominate Bus Rapid Transit Yet Again?*	Mode
L E Ramos-Santiago, J R Brown, H Nixon	Streetcar Resurgence in the United States: Transit Strategy, Growth Machine Tactic, or Some of Both?*	Mode
E Durán-Hormazábal, A Tirachini	Estimation of travel time variability for cars, buses, metro and door-to-door public transport trips in Santiago, Chile*	Mode
X Huang, X Cao, J Yin, X Cao	Effects of metro transit on the ownership of mobility instruments in Xi'an, China*	Mode
J Zhou	Proactive sustainable university transportation: Marginal effects, intrinsic values, and university students' mode choice*	Policy
D Huang, Z Liu, P Liu, J Chen	Optimal transit fare and service frequency of a nonlinear origin-destination based fare structure*	Policy

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