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The Australian Research Council Key Centre in Transport Management

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

World Transit Research Newsletter

6-2019

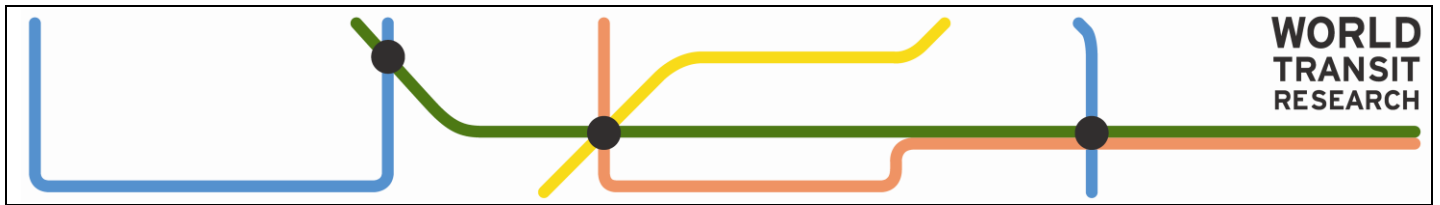
World Transit Research June 2019 Newsletter

Institute of Transport Studies Monash University

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World Transit Research

June 2019 Newsletter

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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.

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NEW ADDITIONS

World Transit Research clearinghouse now includes some 7,322 research reports/papers. Some 97 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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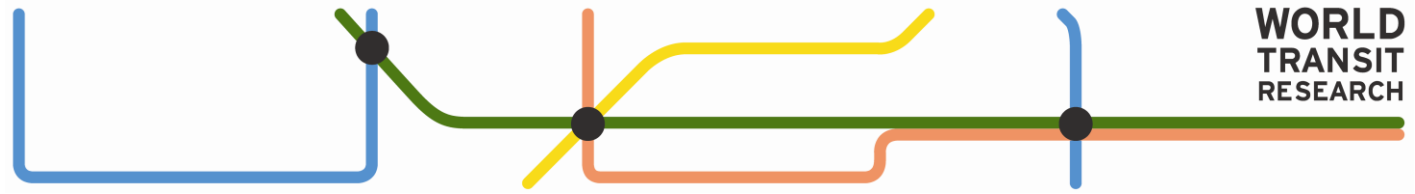
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WORLD TRANSIT RESEARCH – NEW RESEARCH PUBLICATIONS

AUTHOR	TITLE	CATEGORY
C Viggiano, H Koutsopoulos, N Wilson, J Attanucci	Applying Spatial Aggregation Methods to Identify Opportunities for New Bus Services in London*	Planning
G Sánchez-Martínez, L Paget-Seekins, C Southwick, J Attanucci	Bus Load Inference and Crowding Performance Evaluation through Disaggregate Analysis of Fare Transaction, Vehicle Location, and Passenger Count Data*	Planning
A Stewart, P Zegras, P Tinn, J Rosenblum	Tangible Tools for Public Transportation Planning: Public Involvement and Learning for Bus Rapid Transit Corridor Design*	Planning
X Xu, H Li, H Liu, M Rodgers, R Guensler	Evaluation of Transit Ecodriving in Rural, Suburban, and Urban Environments*	Planning
D Nam, D Yang, S An, J Yu, R Jayakrishnan, N Masoud	Designing a Transit-Feeder System using Multiple Sustainable Modes: Peer-to-Peer (P2P) Ridesharing, Bike Sharing, and Walking*	Planning
B Alam, H Nixon, Q Zhang	Factors Affecting Travel Demand by Bus: An Empirical Analysis at U.S. Metropolitan Statistical Area Level*	Planning
J Lebacque, M Khoshyaran	Multimodal Transportation Network Modeling Based on the Generic Second Order Modeling Approach*	Planning
R Lu	Does Investing in Rail Transit Benefit the Poor? A Comparative Study of Rail and Bus Travel by Low-Income Households in the California Household Travel Survey*	Planning
B Tabai, M Bagheri, V Sadeghi-Firoozabadi, V Shahidi, H Mirasadi	Impact of Train Drivers' Cognitive Responses on Rail Accidents*	Planning
W Jia, X Chen, X Shan	Modeling Urban Bus Fuel Consumption in Shanghai, China, Based on Localized MOVES*	Planning
A Alligood, M Sheth, A Goodchild, E McCormack, P Butrina	Rails-Next-to-Trails: A Methodology for Selecting Appropriate Safety Treatments at Complex Multimodal Intersections*	Planning
S Barbeau	Closing the Loop: Improving Transit through Crowdsourced Information*	Planning
H Shaji, A Tangirala, L Vanajakshi	Evaluation of Clustering Algorithms for the Prediction of Trends in Bus Travel Time*	Planning
M Boarnet, R Bostic, A Eisenlohr, S Rodnyansky, R Santiago-Bartolomei, H Webb Jamme	The Joint Effects of Income, Vehicle Technology, and Rail Transit Access on Greenhouse Gas Emissions*	Planning
I Tiznado-Aitken, J Muñoz, R Hurtubia	The Role of Accessibility to Public Transport and Quality of Walking Environment on Urban Equity: The Case of Santiago de Chile*	Planning
J Lessan, L Fu, C Wen, P Huang, C Jiang	Stochastic Model of Train Running Time and Arrival Delay: A Case Study of Wuhan–Guangzhou High-Speed Rail*	Planning
A Delbosc, J Reynolds, W Marshall, A Wall	American Complete Streets and Australian SmartRoads: What Can We Learn from Each Other?*	Planning
N Zuniga-Garcia, H Ross, R Machemehl	Multimodal Level of Service Methodologies: Evaluation of the Multimodal Performance of Arterial Corridors*	Planning
B Beak, M Zamanipour, K Head, B Leonard	Peer-to-Peer Priority Signal Control Strategy in a Connected Vehicle Environment*	Planning
R Jairam, B Anil Kumar, S Arkatkar, L Vanajakshi	Performance Comparison of Bus Travel Time Prediction Models across Indian Cities*	Planning
R Chapleau, P Gaudette, T Spurr	Strict and Deep Comparison of Revealed Transit Trip Structure between Computer-Assisted Telephone Interview Household Travel Survey and Smart Cards*	Planning
J Wood, J Brown	A Marvelous Machine: Creative Approaches to Securing Funding and Building Public Support for Streetcar Projects in Four U.S. Cities	Planning
A Rakoczy, S Wilk, M Jones	Security and Safety of Rail Transit Tunnels*	Planning
F Hisham, J Bunker, A Bhaskar	Capacity Estimation of On-Street, Mid-Block, Off-Line Bus Stops Considering Yield-to-Bus Rule*	Planning
E Graves, S Zheng, L Tarte, B Levine, A Reddy	Customer Journey Time Metrics for New York City Bus Service using Big Data*	Planning
A Halvorsen, D Wood, T Stasko, D Jefferson, A Reddy	Passenger-Centric Performance Metrics for the New York City Subway*	Planning
S Gehrke, A Felix, T Reardon	Substitution of Ride-Hailing Services for More Sustainable Travel Options in the Greater Boston Region*	Planning
C Craig, N Morris, R Van Houten, D Mayou	Pedestrian Safety and Driver Yielding Near Public Transit Stops*	Planning
A Rodriguez-Valencia, D Rosas-Satizabal, D Paris	Importance-Performance Analysis in Public Transportation: Methodological Revision for Practical Implementation*	Planning

M Quddus, F Rahman, F Monsuur, J de Oña, M Enoch	Analyzing Bus Passengers' Satisfaction in Dhaka using Discrete Choice Models*	Planning
K Stark, K Gade, D Heinrichs	What Does the Future of Automated Driving Mean for Public Transportation?*	Planning
K Gkiotsalitis	Robust Stop-Skipping at the Tactical Planning Stage with Evolutionary Optimization*	Planning
R Ray	The Politics of Prioritizing Transit on City Streets*	Planning
P Shang, R Li, J Guo, K Xian, X Zhou	Integrating Lagrangian and Eulerian observations for passenger flow state estimation in an urban rail transit network: A space-time-state hyper network-based assignment approach*	Planning
R Acheampong, F Cugurullo	Capturing the behavioural determinants behind the adoption of autonomous vehicles: Conceptual frameworks and measurement models to predict public transport, sharing and ownership trends of self-driving cars*	Planning
S Wang, W Zhang, Y Bie, K Wang, A Diabat	Mixed-integer second-order cone programming model for bus route clustering problem*	Planning
M Kidd, R Lusby, J Larsen	Passenger- and operator-oriented scheduling of large railway projects*	Planning
J Weng, L Feng, G Du, H Xiong	Maximum likelihood regression tree with two-variable splitting scheme for subway incident delay*	Planning
M Chávez Hernández, L Juárez Valencia, Y Ríos Solís	Penalization and augmented Lagrangian for O-D demand matrix estimation from transit segment counts*	Planning
N Chen, J Kozinski, Y Tan	Ventilation mode changes our safety in buses: Study on "air-rain" flow against chemical and arson attack in public transport vehicles*	Planning
M Chevalier, D Brizard, P Beillas	Study of the possible relationships between tramway front-end geometry and pedestrian injury risk*	Planning
T Hansen	Analysis of Paratransit Feeder-Service Pilot: Projected versus Actual Ridership and Cost-Benefit Results*	Ridership
P Wang, X Chen, W Chen, L Cheng, D Lei	Provision of Bus Real-Time Information: Turning Passengers from Being Contributors of Headway Irregularity to Controllers*	Ridership
P van der Waerden, J van der Waerden	The Relation between Train Access Mode Attributes and Travelers' Transport Mode-Choice Decisions in the Context of Medium- and Long-Distance Trips in the Netherlands*	Ridership
E Lind, J Huting	Predicting Bus Operator Retention Based on Employee Characteristics and Work History*	Ridership
H Asgari, X Jin, T Corkery	A Stated Preference Survey Approach to Understanding Mobility Choices in Light of Shared Mobility Services and Automated Vehicle Technologies in the U.S.*	Ridership
R Mucci, G Erhardt	Evaluating the Ability of Transit Direct Ridership Models to Forecast Medium-Term Ridership Changes: Evidence from San Francisco*	Ridership
D van Lierop, J Eftekhari, A O'Hara, Y Grinspun	Humanizing Transit Data: Connecting Customer Experience Statistics to Individuals' Unique Transit Stories*	Ridership
C Yeh, M Lee	Effects of Taichung bus policy on ridership according to structural change analysis*	Ridership
X Dong, M DiScenna, E Guerra	Transit user perceptions of driverless buses*	Ridership
B Brown, W Jensen, D Tharp	Residents' expectations for new rail stops: optimistic neighborhood perceptions relate to subsequent transit ridership*	Ridership
B Sharma, M Hickman, N Nassir	Park-and-ride lot choice model using random utility maximization and random regret minimization*	Ridership
L McCarthy, A Delbosc, G Currie, A Molloy	'Transit Faithfuls' or 'Transit Leavers'? Understanding mobility trajectories of new parents*	Ridership
A Kang, K Jayaraman, K Soh, W Wong,	Convenience, flexible service, and commute impedance as the predictors of drivers' intention to switch and behavioral readiness to use public transport*	Ridership
K Egset, T Nordfjærn	The role of transport priorities, transport attitudes and situational factors for sustainable transport mode use in wintertime*	Ridership
F Skarin, L Olsson, M Friman, E Wästlund	Importance of motives, self-efficacy, social support and satisfaction with travel for behavior change during travel intervention programs*	Ridership
R Sarker, S Kaplan, M Anderson, S Haustein, M Mailer, H Timmermans	Obtaining transit information from users of a collaborative transit app: Platform-based and individual-related motivators*	Ridership
A Bhattacharyya, W Jin, C Le Floch, D Chatman, J Walker	Nudging people towards more sustainable residential choice decisions: an intervention based on focalism and visualization*	Ridership
M Rahman, S Yasmin, N Eluru	Evaluating the impact of a newly added commuter rail system on bus ridership: a grouped ordered logit model approach*	Ridership
M Coleman, L Tarte, S Chau, B Levine, A Reddy	A Data-Driven Approach to Prioritizing Bus Schedule Revisions at New York City Transit*	Operations

J Fabian, G Sánchez-Martínez, J Attanucci	Improving High-Frequency Transit Performance through Headway-Based Dispatching: Development and Implementation of a Real-Time Decision-Support System on a Multi-Branch Light Rail Line*	Operations
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Z Cao, A Ceder	Autonomous shuttle bus service timetabling and vehicle scheduling using skip-stop tactic*	Operations
S Harrod, F Cerreto, O Nielsen	A closed form railway line delay propagation model*	Operations
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S Li, R Liu, L Yang, Z Gao	Robust dynamic bus controls considering delay disturbances and passenger demand uncertainty*	Operations
R de Regt, C von Ferber, Y Holovatch, M Lebovka	Public transportation in Great Britain viewed as a complex network*	Operations
W Hu, E Diab, A Aboudina, A Shalaby	The Impact of Various Streetcar Types on Passenger Activity and Running Times*	Infrastructure
A Vest, P McMahon, J Cuellar	Developing Dedicated Bus Lane Screening Criteria in Baltimore, Maryland*	Infrastructure
Kan Wu, S Guler	Optimizing Transit Signal Priority Implementation along an Arterial*	Infrastructure
N Chiabaut, M Küng, M Menendez, L Leclercq	Perimeter Control as an Alternative to Dedicated Bus Lanes: A Case Study*	Infrastructure
H Kim, Y Cheng, G Chang	An Arterial-Based Transit Signal Priority Control System*	Infrastructure
K Bhattacharyya, B Maitra, M Boltze	Implementation of Bus Priority with Queue Jump Lane and Pre-Signal at Urban Intersections with Mixed Traffic Operations: Lessons Learned?*	Infrastructure
R Basu, B Alves	Practical Framework for Benchmarking and Impact Evaluation of Public Transportation Infrastructure: Case of Belo Horizonte, Brazil*	Infrastructure
J Zhao, K Chen, T Wang, J Malenje	Modeling loading area effectiveness at off-line bus stops with no clear-cut separation of berths*	Infrastructure
R Chan, M Vaishnav, S Wainwright, P Murray, A Cui	Data-Driven Opportunities from an Account-Based Fare Payment System*	Technology
J Douglass, D Dissanayake, B Coifman, W Chen, F Ali	Measuring the Effectiveness of a Transit Agency's Social Media Engagement with Travelers*	Technology
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G Zhong, J Zhang, L Li, X Chen, F Yang, B Ran	Analyzing Passenger Travel Demand Related to the Transportation Hub inside a City Area using Mobile Phone Data*	Technology
C Coghlan, S Dabiri, B Mayer, M Wagner, E Williamson, M Eichler, N Ramakrishnan	Assigning Bus Delay and Predicting Travel Times using Automated Vehicle Location Data*	Technology
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J Yamaura, S Muench, K Willoughby	Factors Influencing Adoption of Information Technologies for Public Transportation Project Inspection: A WSDOT Case Study*	Organisation
D Ashmore, J Stone, Y Kirk	The Need for Greater Transparency When Assessing the Performance and Prospects of Melbourne's Rail Franchise Contracts*	Organisation
B Mo, Y Shen, J Zhao	Impact of Built Environment on First- and Last-Mile Travel Mode Choice*	Land use
J Mendez, J Brown	The Relationship between Streetcars and Development Activity: An Examination of Portland and Seattle*	Land use
B Yen, C Mulley, H Shearer	Different Stories from Different Approaches in Evaluating Property Value Uplift: Evidence from the Gold Coast Light Rail System in Australia*	Land use
X Wang, D Tong, J Gao, Y Chen	The reshaping of land development density through rail transit: The stories of central areas vs. suburbs in Shenzhen, China*	Land use



S Hiners, A Nelson, M Buchert	Streetcars and Economic Development: Do Streetcars Stimulate Employment Growth?*	Mode
M Ghamami, M Shojaei	Introducing a Design Framework for a Multi-Modal Public Transportation System, Focusing on Mixed-Fleet Bike-Sharing Systems*	Mode
S Jin, H Kong, D Sui	Uber, Public Transit, and Urban Transportation Equity: A Case Study in New York City*	Mode
A Prodan, P Teixeira	Incorporating Economic Assessment into Capacity Allocation and Infrastructure Charging Policies for Vertically-Separated Railways*	Economics
Y Sun, L Zhang	Microeconomic Model for Designing Public Transit Incentive Programs*	Economics

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