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World Transit Research Newsletter

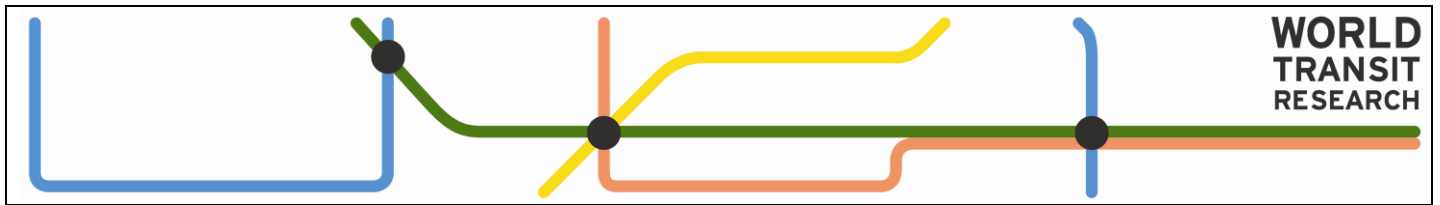
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World Transit Research April 2019 Newsletter

Institute of Transport Studies Monash University

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World Transit Research

April 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
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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 7,225 research reports/papers. Some 94 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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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
X Luan, B De Schutter, F Corman, G Lodewijks	Integrating Dynamic Signaling Commands Under Fixed-Block Signaling Systems into Train Dispatching Optimization Problems*	Planning
S Tamblay, J Muñoz, J de Dios Ortúzar	Extended Methodology for the Estimation of a Zonal Origin-Destination Matrix: A Planning Software Application Based on Smartcard Trip Data*	Planning
J Lee, W Tyner, N Vasavda	Moving Minds: The Next Generation of Real-Time Transit Information in San Francisco*	Planning
T Glick, M Figliozzi	Evaluation of Route Changes Utilizing High-Resolution GPS Bus Transit Data*	Planning
X Chang, Y Ikeda, S Tsujimura, K Sakamoto	Examining the Provision of Railway Transit Information to Foreign Visitors in the Tokyo Metropolitan Area and Strategies for Improvement*	Planning
O Cats, J Haverkamp	Strategic Planning and Prospects of Rail-Bound Demand Responsive Transit*	Planning
J Godfrey, L Staes, J Flynn, R Yegidis	Successful Practices and Training Initiatives to Reduce Bus Accidents and Incidents at Transit Agencies: Abridged Version of TCRP Synthesis 126*	Planning
B Jäger, C Brickwedde, M Lienkamp	Multi-Agent Simulation of a Demand-Responsive Transit System Operated by Autonomous Vehicles*	Planning
A Bharathy, C D'Souza	Revisiting Clear Floor Area Requirements for Wheeled Mobility Device Users in Public Transportation*	Planning
C Garcia-Suarez, A Rivera-Perez, A Rodriguez-Valencia	Defining TransMilenio Users' Value and Satisfaction through the Lean Thinking Approach*	Planning
B Nagorsky, R Borbridge	Urban Services on Regional Rail: Local and Network-Based Methodologies for Evaluating New Stations in Toronto*	Planning
M Rahbar, M Hickman, M Mesbah, A Tavassoli	Determining Effective Sample Size to Calibrate a Transit Assignment Model: A Bayesian Perspective*	Planning
M Veillette, R Deboosere, R Wasfi, N Ross, A El-Geneidy	Small Steps, Big Differences: Assessing the Validity of using Home and Work Locations to Estimate Walking Distances to Transit*	Planning
M Laquidara	Measuring Spontaneous Accessibility for Iterative Transit Planning*	Planning
M Sinner, U Weidmann, A Nash	Application of a Cost-Allocation Model to Swiss Bus and Train Lines*	Planning
Z Liu, Z Song, Y He	Planning of Fast-Charging Stations for a Battery Electric Bus System under Energy Consumption Uncertainty*	Planning
D Kim, J Ko, X Xu, H Liu, M Rodgers, R Guensler	Evaluating the Environmental Benefits of Median Bus Lanes: Microscopic Simulation Approach*	Planning
H Hsu, M Boarnet, D Houston	Gender and Rail Transit Use: Influence of Environmental Beliefs and Safety Concerns*	Planning
D Han, J Yu, E Beimborn, Z Jin, W Tan	Elements of Successful Universal Student Transit Pass Programs from Planning to Implementation: A Benchmark Study*	Planning
S Chowdhury	Role of Gender in the Ridership of Public Transport Routes Involving Transfers*	Planning
Q Li, F Qiao, A Mao, C McCreight	Characterizing the Importance of Criminal Factors Affecting Bus Ridership using Random Forest Ensemble Algorithm*	Planning
D Ou, R Xue, K Cui	A Data-Driven Fault Diagnosis Method for Railway Turnouts*	Planning
M Chen, S Souche Le Corvec, A Bonnafous	Time Available at Destination: Tool to Evaluate the Quality of Public Transport Service and a Determinant of Mode Choice*	Planning
P Mo, L Yang, Z Gao	Energy-Efficient Train Operation Strategy with Speed Profiles Selection for an Urban Metro Line*	Planning
M Dixit, T Brands, N van Oort, O Cats, S Hoogendoorn	Passenger Travel Time Reliability for Multimodal Public Transport Journeys*	Planning
M Bogacki, P Bzdziuch	Urban bus emission trends in the Krakow metropolitan area (Poland) from 2010 to 2015*	Planning
F Calvo, L Eboli, C Forciniti, G Mazzulla	Factors influencing trip generation on metro system in Madrid (Spain)*	Planning
Y Lyu, C Chow, V Lee, JNg, Ya Li, J Zeng	CB-Planner: A bus line planning framework for customized bus systems*	Planning
E Traut, A Steinfeld	Identifying commonly used and potentially unsafe transit transfers with crowdsourcing*	Planning

R Buehler, J Pucher, O Dümmler	Verkehrsverbund: The evolution and spread of fully integrated regional public transport in Germany, Austria, and Switzerland*	Planning
E Bardaka, M Delgado, R Florax	A spatial multiple treatment/multiple outcome difference-in-differences model with an application to urban rail infrastructure and gentrification*	Planning
Y Peng, Z Li, PSchonfeld	Development of rail transit network over multiple time periods*	Planning
S Canavan, D Graham, R Anderson, A Barron	Urban Metro Rail Demand: Evidence from Dynamic Generalized Method of Moments Estimates using Panel Data*	Ridership
R Greene-Roesel, J Castiglione, C Guiriba, M Bradley	BART Perks: Using Incentives to Manage Transit Demand*	Ridership
R Xu, Y Li, W Zhu, S Li	Empirical Analysis of Traveling Backwards and Passenger Flows Reassignment on a Metro Network with Automatic Fare Collection (AFC) Data and Train Diagram*	Ridership
D Luo, L Bonnetain, O Cats, H van Lint	Constructing Spatiotemporal Load Profiles of Transit Vehicles with Multiple Data Sources*	Ridership
R Driscoll, K Lehmann, S Polzin, J Godfrey	The Effect of Demographic Changes on Transit Ridership Trends*	Ridership
M Wei, J Corcoran, T Sigler, Y Liu	Modeling the Influence of Weather on Transit Ridership: A Case Study from Brisbane, Australia*	Ridership
F Piras, E Sottile, I Meloni	Modal Share Change following Implementation of Travel Demand Management Strategies*	Ridership
L Li, M Cao, Y Bai, Z Song	Analysis of Public Transportation Competitiveness Based on Potential Passenger Travel Intentions: Case Study in Shanghai, China*	Ridership
M Chen, S Souche Le Corvec	On the Usefulness of a Combined Mode Choice-Schedule Choice Model: Case of the Paris–Bordeaux Rail Line (France)*	Ridership
K Gopal, E Shin	The impacts of rail transit on the lives and travel experiences of women in the developing world: Evidence from the Delhi Metro*	Ridership
W Wu, M Wang, F Zhang	Commuting behavior and congestion satisfaction: Evidence from Beijing, China*	Ridership
Y Liu, Z Liu, R Jia	DeepPF: A deep learning based architecture for metro passenger flow prediction*	Ridership
A Delbosc, G Currie	Why do people fare evade? A global shift in fare evasion research*	Ridership
J Allen, L Eboli, C Forciniti, G Mazzulla, J de Dios Ortúzar	The role of critical incidents and involvement in transit satisfaction and loyalty*	Ridership
J Ko, S Lee, M Byun	Exploring factors associated with commute mode choice: An application of city-level general social survey data*	Ridership
D Grisby, Z Smith, R Weaver, M Williams, M Dickens, M Hughes-Cromwick, F Villalobos	The Transformation of the American Commuter	Ridership
E Diab, A Shalaby	Subway Service Down Again? Assessing the Effects of Subway Service Interruptions on Local Surface Transit Performance*	Operations
A Durand, N Van Oort, S Hoogendoorn	Assessing and Improving Operational Strategies for the Benefit of Passengers in Rail-Bound Urban Transport Systems*	Operations
C Yuen, M Sweet	Does Roadway Performance Affect Transit Headway Unreliability? Evidence from Mixed-Traffic Transit Corridors in Toronto, Canada*	Operations
F Zhou, Y Li, R Xu	Demand-Driven Transfer Coordination of Last Trains in Metro Network*	Operations
A Pavlides, A Chow	Multi-Objective Optimization of Train Timetable with Consideration of Customer Satisfaction*	Operations
P Shang, R Li, Z Liu, K Xian, J Guo	Timetable Synchronization and Optimization Considering Time-Dependent Passenger Demand in an Urban Subway Network*	Operations
S Fayyaz, X Liu, R Wei	Transit Vehicle Performance Analysis for Service Continuity/Termination: A Data Envelopment Analysis Approach*	Operations
J Godfrey, G Saliceto, R Yegidis	Role of Public Transportation in a Natural Disaster State of Emergency Declaration*	Operations
M Rajabi-Bahaabadi, A Shariat-Mohaymany, S Yang	Travel Time Reliability Measures Accommodating Scheduling Preferences of Travelers*	Operations
M Pei, P Lin, J Ou	Real-Time Optimal Scheduling Model for Transit System with Flexible Bus Line Length*	Operations
L Kang, S Chen, Q Meng	Bus and driver scheduling with mealtime windows for a single public bus route*	Operations

B Cesme, R Roisman, R Burns, K List, A Koudounas, J Cuellar, M Sanders, K Lee, D Miller	Strategies and Barriers in Effective Bus Lane Implementation and Management: Best Practices for Use in the Greater Washington, D.C. Region*	Infrastructure
B Lozner, K Lee, A Raja, M Habib, B Cesme	Large-Scale Transit Signal Priority Implementation: District of Columbia's Path to Success*	Infrastructure
A Barron, S Canavan, R Anderson, J Cohen	Operational Impacts of Platform Doors in Metros*	Infrastructure
X Karekla, R Fernandez, N Tyler	Environmental Effect of Bus Priority Measures Applied on a Road Network in Santiago, Chile*	Infrastructure
L Tang, A Gan, F Cevallos, P Alluri	Characteristics of Bus Transit Vehicles in the United States: A 30-Year National Trend Analysis*	Infrastructure
S Seriani, T Fujiyama	Experimental Study for Estimating the Passenger Space at Metro Stations with Platform Edge Doors*	Infrastructure
C Wang, Z Ye, J Fricker, Y Zhang, S Ukkusuri	Bus Capacity Estimation using Stochastic Queuing Models for Isolated Bus Stops in China*	Infrastructure
Z Bukhsh, A Saeed, I Stipanovic, A Doree	Predictive maintenance using tree-based classification techniques: A case of railway switches*	Infrastructure
X Pi, Z Qian, A Steinfeld, Y Huang	Understanding Human Perception of Bus Fullness: An Empirical Study of Crowdsourced Fullness Ratings and Automatic Passenger Count Data*	Technology
E Miller, G Sánchez-Martínez, N Nassir	Estimation of Passengers Left Behind by Trains in High-Frequency Transit Service Operating Near Capacity*	Technology
M Figliozzi, N Stoll	A Study of Bus High-Resolution GPS Speed Data Accuracy*	Technology
D Wood, T Stasko, L Tarte, D Jefferson, A Reddy	A Real-Time Service Management Decision Support System for Train Dispatching at New York City Transit*	Technology
N Huan, E Yao, B Li	Early Warning Mechanism for the Surge of Passengers in Metro Systems Based on Automated Fare Collection Data: Case Study of Guangzhou, China*	Technology
S Jamal, M Habib	Investigation of the use of smartphone applications for trip planning and travel outcomes*	Technology
D Bachir, G Khodabandelou, V Gauthier, M El Yacoubi, J Puchinger	Inferring dynamic origin-destination flows by transport mode using mobile phone data*	Technology
P Bösch, F Ciari, K Axhausen	Transport Policy Optimization with Autonomous Vehicles*	Policy
Y Liu, S Wang, B Xie	Evaluating the effects of public transport fare policy change together with built and non-built environment features on ridership: The case in South East Queensland, Australia*	Policy
T Vanourtrive, E Cooper	How just is transportation justice theory? The issues of paternalism and production*	Policy
P Smith	Exploring public transport sustainability with neutrosophic logic*	Policy
J McArthur, E Robin, E Smeds	Socio-spatial and temporal dimensions of transport equity for London's night time economy*	Policy
J Zhou, M Zhang, P Zhu	The equity and spatial implications of transit fare*	Policy
M Alonso-González, T Liu, O Cats, N Van Oort, S Hoogendoorn	The Potential of Demand-Responsive Transport as a Complement to Public Transport: An Assessment Framework and an Empirical Evaluation*	Mode
B Sharma, M Hickman, C Prato	Discrete-Time Hazard Model of the Dynamic Utilization of Parking Spaces within Park-and-Ride Lots*	Mode
M Tanko, MBurke, H Cheemakurthy	Water Transit and Ferry-Oriented Development in Sweden: Comparisons with System Trends in Australia*	Mode
A Lu, J Kozlowski, S Fahey, S Whitman	Exploring the Complex Relationship between Railroad Infrastructure, Operating Constraints, Maximum Speeds, and Public Schedules*	Mode
M Tanko, M Burke, B Yen	Water transit and excess travel: discrete choice modelling of bus and ferry trips in Brisbane, Australia*	Mode
C Marti, L Bertolini, U Weidmann	Transit Orientation: More Than Just Coverage—A New Method for the Assessment of Transit and Development Co-Location*	Land use
Y Deng, Y Yan	Propensity Score Weighting with Generalized Boosted Models to Explore the Effects of the Built Environment and Residential Self-Selection on Travel Behavior*	Land use

L Yang, Y Wang, S Han, Y Liu	Urban transport carbon dioxide (CO2) emissions by commuters in rapidly developing Cities: The comparative study of Beijing and Xi'an in China*	Land use
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Yida, J Berechman, S Levy	Cost, quality and scope of service: The case of the Israeli public bus sector*	Organisation
A Mohammadi, L Amador-Jimenez, F Nasiri	Review of asset management for metro systems: challenges and opportunities*	Organisation
H Huang, Y Cheng, R Weibel	Transport mode detection based on mobile phone network data: A systematic review*	Literature Review
C Brakewood, K Watkins	A literature review of the passenger benefits of real-time transit information*	Literature Review
T Spurr, A Leroux, R Chapleau	Comparative Structural Evaluation of Transit Travel Demand using Travel Survey and Smart Card Data for Metropolitan Transit Financing*	Economics

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