



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

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

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World Transit Research Newsletter

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6-2019

# World Transit Research June 2019 Newsletter

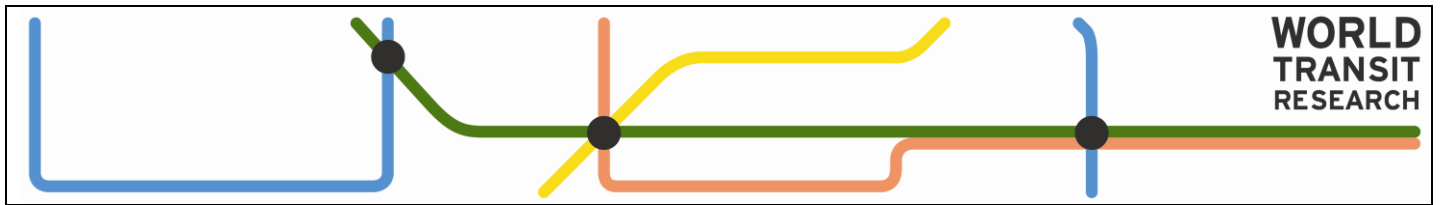
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## World Transit Research

### June 2019 Newsletter

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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.

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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 7,322 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.

#### **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](http://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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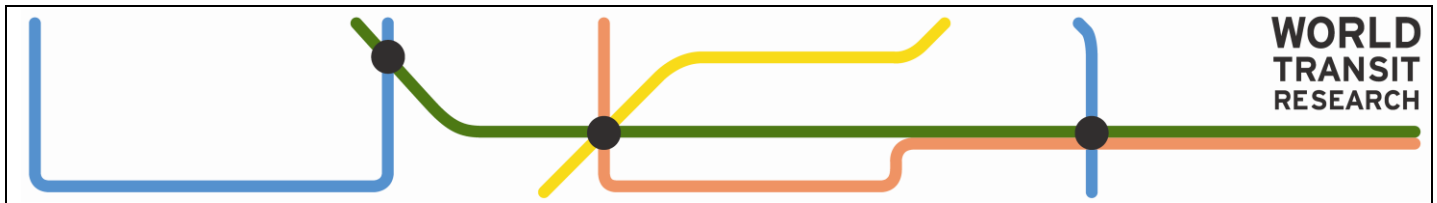
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If you have any queries or suggestions on how to improve our publication, we would love to hear from you at: [enquiries@worldtransitresearch.info](mailto:enquiries@worldtransitresearch.info)

Wendy Walker  
Research Clearing House Manager  
Monash University, Australia  
[enquiries@worldtransitresearch.info](mailto:enquiries@worldtransitresearch.info)  
PH +61 4 4733 9771 Fax: +61 3 9905 4944

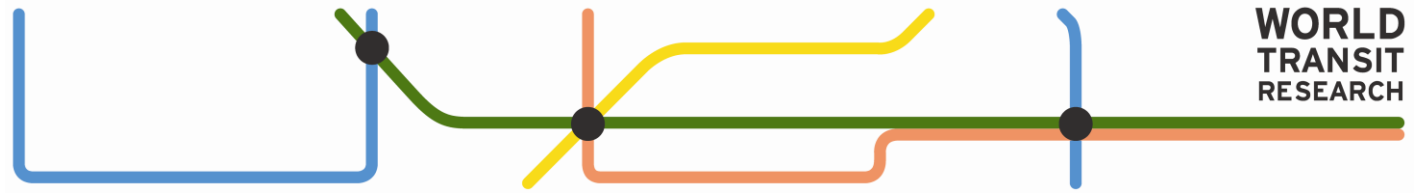
**WORLD TRANSIT RESEARCH – NEW RESEARCH PUBLICATIONS**

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



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

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| J Fabian, G Sánchez-Martínez, J Attanucci                                       | <a href="#">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*</a> | Operations     |
| O Cats, S Glück                                                                 | <a href="#">Frequency and Vehicle Capacity Determination using a Dynamic Transit Assignment Model*</a>                                                                                                   | Operations     |
| W Wu, R Liu, W Jin, C Ma                                                        | <a href="#">Stochastic bus schedule coordination considering demand assignment and rerouting of passengers*</a>                                                                                          | Operations     |
| Z Chen, X Li, X Zhou                                                            | <a href="#">Operational design for shuttle systems with modular vehicles under oversaturated traffic: Discrete modeling method*</a>                                                                      | Operations     |
| Z Cao, A Ceder                                                                  | <a href="#">Autonomous shuttle bus service timetabling and vehicle scheduling using skip-stop tactic*</a>                                                                                                | Operations     |
| S Harrod, F Cerreto, O Nielsen                                                  | <a href="#">A closed form railway line delay propagation model*</a>                                                                                                                                      | Operations     |
| Y Zhu, R Goverde                                                                | <a href="#">Railway timetable rescheduling with flexible stopping and flexible short-turning during disruptions*</a>                                                                                     | Operations     |
| S Li, R Liu, L Yang, Z Gao                                                      | <a href="#">Robust dynamic bus controls considering delay disturbances and passenger demand uncertainty*</a>                                                                                             | Operations     |
| R de Regt, C von Ferber, Y Holovatch, M Lebovka                                 | <a href="#">Public transportation in Great Britain viewed as a complex network*</a>                                                                                                                      | Operations     |
| W Hu, E Diab, A Aboudina, A Shalaby                                             | <a href="#">The Impact of Various Streetcar Types on Passenger Activity and Running Times*</a>                                                                                                           | Infrastructure |
| A Vest, P McMahon, J Cuellar                                                    | <a href="#">Developing Dedicated Bus Lane Screening Criteria in Baltimore, Maryland*</a>                                                                                                                 | Infrastructure |
| Kan Wu, S Guler                                                                 | <a href="#">Optimizing Transit Signal Priority Implementation along an Arterial*</a>                                                                                                                     | Infrastructure |
| N Chiabaut, M Küng, M Menendez, L Leclercq                                      | <a href="#">Perimeter Control as an Alternative to Dedicated Bus Lanes: A Case Study*</a>                                                                                                                | Infrastructure |
| H Kim, Y Cheng, G Chang                                                         | <a href="#">An Arterial-Based Transit Signal Priority Control System*</a>                                                                                                                                | Infrastructure |
| K Bhattacharyya, B Maitra, M Boltze                                             | <a href="#">Implementation of Bus Priority with Queue Jump Lane and Pre-Signal at Urban Intersections with Mixed Traffic Operations: Lessons Learned?*</a>                                               | Infrastructure |
| R Basu, B Alves                                                                 | <a href="#">Practical Framework for Benchmarking and Impact Evaluation of Public Transportation Infrastructure: Case of Belo Horizonte, Brazil*</a>                                                      | Infrastructure |
| J Zhao, K Chen, T Wang, J Malenje                                               | <a href="#">Modeling loading area effectiveness at off-line bus stops with no clear-cut separation of berths*</a>                                                                                        | Infrastructure |
| R Chan, M Vaishnav, S Wainwright, P Murray, A Cui                               | <a href="#">Data-Driven Opportunities from an Account-Based Fare Payment System*</a>                                                                                                                     | Technology     |
| J Douglass, D Dissanayake, B Coifman, W Chen, F Ali                             | <a href="#">Measuring the Effectiveness of a Transit Agency's Social Media Engagement with Travelers*</a>                                                                                                | Technology     |
| C Remy, C Brakewood, N Ghahramani, E Kwak, J Peters                             | <a href="#">Transit Information Utilization during an Extreme Weather Event: An Analysis of Smartphone App Data*</a>                                                                                     | Technology     |
| A Hidayat, S Terabe, H Yaginuma                                                 | <a href="#">WiFi Scanner Technologies for Obtaining Travel Data about Circulator Bus Passengers: Case Study in Obuse, Nagano Prefecture, Japan*</a>                                                      | Technology     |
| G Zhong, J Zhang, L Li, X Chen, F Yang, B Ran                                   | <a href="#">Analyzing Passenger Travel Demand Related to the Transportation Hub inside a City Area using Mobile Phone Data*</a>                                                                          | Technology     |
| C Coghlan, S Dabiri, B Mayer, M Wagner, E Williamson, M Eichler, N Ramakrishnan | <a href="#">Assigning Bus Delay and Predicting Travel Times using Automated Vehicle Location Data*</a>                                                                                                   | Technology     |
| A Gavriilidou, O Cats                                                           | <a href="#">Reconciling transfer synchronization and service regularity: real-time control strategies using passenger data</a>                                                                           | Technology     |
| A Smyth, L Kelleher                                                             | <a href="#">Differences in Control and Regulatory Structures of Public Transport within the United Kingdom and Ireland: Implications for Quality and Effectiveness of Service Delivery*</a>              | Organisation   |
| J Arias, C Bachmann                                                             | <a href="#">Analysis of Private Participation Effects in Bus Rapid Transit Projects in Ecuador*</a>                                                                                                      | Organisation   |
| J Yamaura, S Muench, K Willoughby                                               | <a href="#">Factors Influencing Adoption of Information Technologies for Public Transportation Project Inspection: A WSDOT Case Study*</a>                                                               | Organisation   |
| D Ashmore, J Stone, Y Kirk                                                      | <a href="#">The Need for Greater Transparency When Assessing the Performance and Prospects of Melbourne's Rail Franchise Contracts*</a>                                                                  | Organisation   |
| B Mo, Y Shen, J Zhao                                                            | <a href="#">Impact of Built Environment on First- and Last-Mile Travel Mode Choice*</a>                                                                                                                  | Land use       |
| J Mendez, J Brown                                                               | <a href="#">The Relationship between Streetcars and Development Activity: An Examination of Portland and Seattle*</a>                                                                                    | Land use       |
| B Yen, C Mulley, H Shearer                                                      | <a href="#">Different Stories from Different Approaches in Evaluating Property Value Uplift: Evidence from the Gold Coast Light Rail System in Australia*</a>                                            | Land use       |
| X Wang, D Tong, J Gao, Y Chen                                                   | <a href="#">The reshaping of land development density through rail transit: The stories of central areas vs. suburbs in Shenzhen, China*</a>                                                             | Land use       |



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

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