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The Australian Research Council Key Centre in Transport Management

Institute of Transport Studies, Monash University
World Transit Research

World Transit Research Newsletter

4-2021

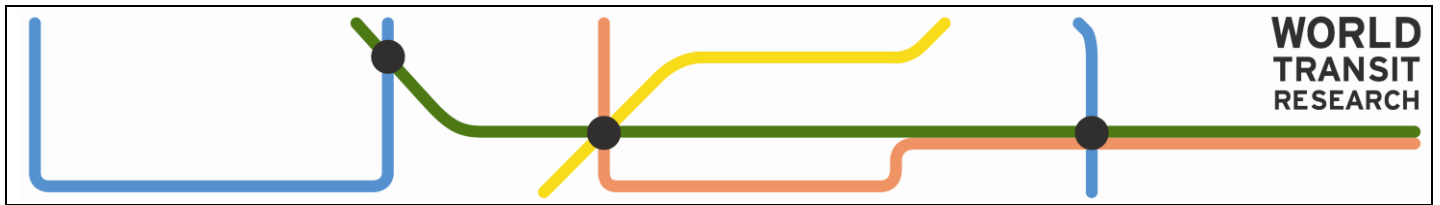
World Transit Research April 2021 Newsletter

Institute of Transport Studies Monash University

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World Transit Research

April 2021 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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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 8,342 research reports/papers. Some 95 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

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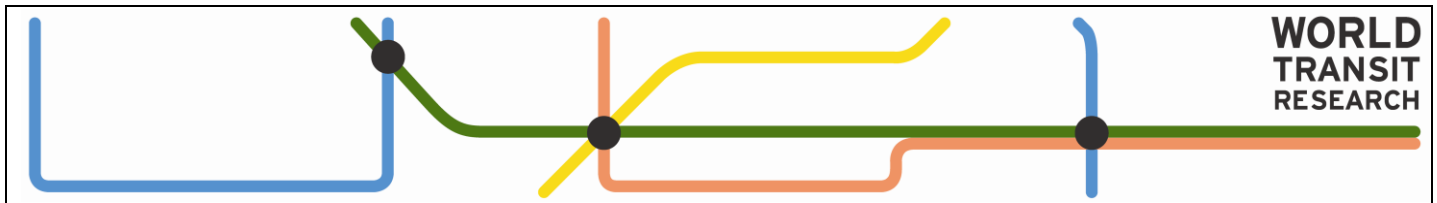
SUGGESTIONS WELCOMED

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

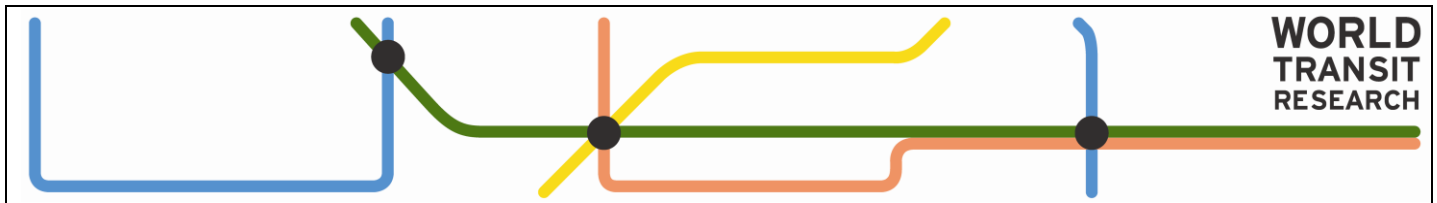
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WORLD TRANSIT RESEARCH – NEW RESEARCH PUBLICATIONS

AUTHOR	TITLE	CATEGORY
J Wang, A Ghanem, H Rakha, J Du	A rail transit simulation system for multi-modal energy-efficient routing applications	Planning
L Liang, M Xu, S Grant-Muller, L Mussone	Household travel mode choice estimation with large-scale data—an empirical analysis based on mobility data in Milan	Planning
B Mo, K Feng, Y Shen, C Tam, D Li, Y Yin, J Zhao	Modeling epidemic spreading through public transit using time-varying encounter network	Planning
S Zhan, S Wong, P Shang, Q Peng, J Xie, S Lo	Integrated railway timetable rescheduling and dynamic passenger routing during a complete blockage	Planning
M Giannotti, J Barros, D Tomasiello, D Smith, B Pizzol, B Santos, C Zhong, Y Shen, E Marques, M Batty	Inequalities in transit accessibility: Contributions from a comparative study between Global South and North metropolitan regions	Planning
X Li, J Gao, S Song	The Costs and Benefits Appraisal Tool for Transit Buses	Planning
W Qi, Y Wang, Y Bie, J Ren	Prediction model for bus inter-stop travel time considering the impacts of signalized intersections	Planning
T Uslu, O Kaya	Location and capacity decisions for electric bus charging stations considering waiting times	Planning
Q Tian, D Wang, Y Lin	Service operation design in a transit network with congested common lines	Planning
D Nguyen-Phuoc, A Tran, T Nguyen, P Le, D Su	Investigating the complexity of perceived service quality and perceived safety and security in building loyalty among bus passengers in Vietnam – A PLS-SEM approach	Planning
Y Tang, N Xia, Y Lu, L Varga, Q Li, G Chen, J Luo	BIM-based safety design for emergency evacuation of metro stations	Planning
G Larue, V Popovic, M Legge, C Brophy, R Blackman	Safe trip: Factors contributing to slip, trip and fall risk at train stations	Planning
S Maynard, A Filtness, K Miller, F Pilkington-Cheney	Bus driver fatigue: A qualitative study of drivers in London	Planning
H Iridiastadi	Fatigue in the Indonesian rail industry: A study examining passenger train drivers	Planning
R Sun, Y Chen, A Dubey, P Pugliese	Hybrid electric buses fuel consumption prediction based on real-world driving data	Planning
T Zhang, E Ballantyne, R Zhao, D Stone	Technical and economic feasibility of increasing tram system efficiency with EV batteries	Planning
V Chauhan, A Gupta, M Parida	Demystifying service quality of Multimodal Transportation Hub (MMTH) through measuring users' satisfaction of public transport	Planning
Z Tang, H Yin, C Yang, J Yu, H Guo	Predicting the electricity consumption of urban rail transit based on binary nonlinear fitting regression and support vector regression	Planning
R Hickman, M Garcia, M Arnd, L Peixoto	Euston station redevelopment: Regeneration or gentrification?	Planning
Y Wang, S Yee M Liu, L Cho, K Lee, H Tam	A method of railway system safety analysis based on cusp catastrophe model	Planning
J Guber, T Suppiger, T Sauter, M Traschitzger, M Müller, A Exadaktylos	Tram, rail, bicycle: An unhappy triad? Rising incidence and resource consumption of tramline-associated bicycling accidents in Bern, Switzerland	Planning
D Hidalgo, C Urbano, C Olivares, N Tinjacá, J Pérez, C Pardo, M Rodríguez, I Granada, C Navas, C Glen, C Ramos, MGutierrez, L Pedraza	Mapping Universal Access Experiences for Public Transport in Latin America	Planning
H Faroqi, R Moeckel, M Mesbah	Temporal distribution of sociodemographic characteristics at transit stops	Planning
H Kim	Service design for public transportation to address the issue of females' fear of crime	Planning
P Bourbonnais, C Morency, M Trépanier, É Martel-Poliquin	Transit network design using a genetic algorithm with integrated road network and disaggregated O–D demand data	Planning
H Le, A Carrel	Happy today, satisfied tomorrow: emotion—satisfaction dynamics in a multi-week transit user smartphone survey	Planning
J Zhou, X Xu, J Long, J Ding	Integrated optimization approach to metro crew scheduling and rostering	Planning



A De-Los-Santos, D Canca, E Barrena	Mathematical formulations for the bimodal bus-pedestrian social welfare network design problem	Planning
Y Zhou, H Yang, Y Wang, X Yan	Integrated line configuration and frequency determination with passenger path assignment in urban rail transit networks	Planning
P Wang, Y Hsu, C Hsu	Analysis of waiting time perception of bus passengers provided with mobile service	Planning
A Radzimski, M Dziecielski	Exploring the relationship between bike-sharing and public transport in Poznań, Poland	Planning
R Olfindo	Transport accessibility, residential satisfaction, and moving intention in a context of limited travel mode choice	Planning
S Samerei, K Aghabayk, A Mohammadi, N Shiwakoti	Data mining approach to model bus crash severity in Australia	Planning
M Kim, A Roche	Optimal service zone and headways for flexible-route bus services for multiple periods	Planning
M Almasi, Y Oh, A Sadollah, Y Byon, S Kang	Urban transit network optimization under variable demand with single and multi-objective approaches using metaheuristics: The case of Daejeon, Korea	Planning
P Heykan Soares	Zone-based public transport route optimisation in an urban network	Planning
P Heyken Soares, L Ahmed, Y Mao, C Mumford	Public transport network optimisation in PTV Visum using selection hyper-heuristics	Planning
Z Wang, S Wang, H Lian	A route-planning method for long-distance commuter express bus service based on OD estimation from mobile phone location data: the case of the Changping Corridor in Beijing	Planning
Y Fan, S Zheng	Dockless bike sharing alleviates road congestion by complementing subway travel: Evidence from Beijing	Ridership
K Mouratidis, V Serrano	Autonomous buses: Intentions to use, passenger experiences, and suggestions for improvement	Ridership
Q Tian, P Liu, G Ong, H Huang	Morning commuting pattern and crowding pricing in a many-to-one public transit system with heterogeneous users	Ridership
S Hu, P Chen	Who left riding transit? Examining socioeconomic disparities in the impact of COVID-19 on ridership	Ridership
H Dong, S Ma, N Jia, J Tian	Understanding public transport satisfaction in post COVID-19 pandemic	Ridership
M Monteiro, J de Abreu e Silva, H Sonja, J Pinho de Sousa	Urban travel behavior adaptation of temporary transnational residents	Ridership
S Zhang, Y Yang, F Zhen, T Lobsang, Z Li	Understanding the travel behaviors and activity patterns of the vulnerable population using smart card data: An activity space-based approach	Ridership
M Poku-Boansi	Contextualizing urban growth, urbanisation and travel behaviour in Ghanaian cities	Ridership
J Hawkins, K Habib	Finding the Subway Disruption Regimes of Switching Subway to Uber in Toronto	Ridership
F Shaw, A Malokin, P Mokhtarian, G Circella	Who doesn't mind waiting? Examining the relationships between waiting attitudes and person- and travel-related attributes	Ridership
A Borriello, J Rose	Global versus localised attitudinal responses in discrete choice	Ridership
J Zhang, H Che, F Chen, W Ma, Z He	Short-term origin-destination demand prediction in urban rail transit systems: A channel-wise attentive split-convolutional neural network method	Ridership
C Li, L Bai, W Liu, L Yao, S Waller	Urban mobility analytics: A deep spatial-temporal product neural network for traveler attributes inference	Ridership
Y Zhu, H Koutsopoulos, N Wilson	Passenger itinerary inference model for congested urban rail networks	Ridership
T Pham, N Nguyen, L Duong	Hierarchy-attribute decision making regarding public buses and private motorbikes: a case study in Ho Chi Minh City, Vietnam	Ridership
Y Guo, L Yang, Y Lu, R Zhao	Dockless bike-sharing as a feeder mode of metro commute? The role of the feeder-related built environment: Analytical framework and empirical evidence	Land use
G Deyas, M Woldeamanuel	Social and economic impacts of public transportation on adjacent communities: The case of the Addis Ababa light rail transit	Land use
X Wang, C Shao, C Yin, C Dong	Exploring the effects of the built environment on commuting mode choice in neighborhoods near public transit stations: evidence from China	Land use



E Chen, Z Ye, H Wu	Nonlinear effects of built environment on intermodal transit trips considering spatial heterogeneity	Land use
H Dong	Evaluating the impacts of transit-oriented developments (TODs) on household transportation expenditures in California	Land use
Y Huang, D Parker, L Minaker	Identifying latent demand for transit-oriented development neighbourhoods: Evidence from a mid-sized urban area in Canada	Land use
S Su, H Zhang, M Wang, M Weng, M Kang	Transit-oriented development (TOD) typologies around metro station areas in urban China: A comparative analysis of five typical megacities for planning implications	Land use
C Liu, E Bardaka	The suburbanization of poverty and changes in access to public transportation in the Triangle Region, NC	Land use
M Kamruzzaman, B Giles-Corti, J De Vos, F Witlox, F Shatu, G Turrell	The life and death of residential dissonants in transit-oriented development: A discrete time survival analysis	Land use
P Lussier-Tomaszewski, G Boisjoly	Thinking regional and acting local: Assessing the joint influence of local and regional accessibility on commute mode in Montreal, Canada	Land use
J Zhou, Y Yang	Transit-based accessibility and urban development: An exploratory study of Shenzhen based on big and/or open data	Land use
L Guzman, S Gomez Cardona	Density-oriented public transport corridors: Decoding their influence on BRT ridership at station-level and time-slot in Bogotá	Land use
J Yang, J Cao, Y Zhou	Elaborating non-linear associations and synergies of subway access and land uses with urban vitality in Shenzhen	Land use
S Kim, J Byun	Identifying spatiotemporally-varying effects of a newly built subway line on land price: Difference and correlation between commercial and residential uses	Land use
W Fan, Y Ran	Planning skip-stop services with schedule coordination	Operations
M Esfeh, S Wirasinghe, S Saidi, L Kattan	Waiting time and headway modelling for urban transit systems – a critical review and proposed approach	Operations
K Huang, J Wu, F Liao, H Sun, F He, Z Gao	Incorporating multimodal coordination into timetabling optimization of the last trains in an urban railway network	Operations
J Xie, S Zhan, S Wong, S Lo	A schedule-based timetable model for congested transit networks	Operations
C Gong, J Shi, Y Wang, H Zhou, L Yang, D Chen, H Pan	Train timetabling with dynamic and random passenger demand: A stochastic optimization method	Operations
Z Li, J Zhao, Q Peng	Train service design in an urban rail transit line incorporating multiple service routes and multiple train compositions	Operations
A Andrade-Michel, Y Ríos-Solís, V Boyer	Vehicle and reliable driver scheduling for public bus transportation systems	Operations
Y Ren, J Zhao, X Zhou	Optimal design of scheduling for bus rapid transit by combining with passive signal priority control	Operations
C Tang, A Ceder, Y Ge, T Liu	Optimal operational strategies for single bus lines using network-based method	Operations
M Pei, P Lin, J Du, X Li, Z Chen	Vehicle dispatching in modular transit networks: A mixed-integer nonlinear programming model	Operations
Z Li, A Shalaby, M Roorda, B Mao	Urban rail service design for collaborative passenger and freight transport	Operations
Z Sun, C Wang, Z Ye, H Bi	Long short-term memory network-based emission models for conventional and new energy buses	Technology
K Dillman, M Czepkiewicz, J Heinonen, R Fazeli, Á Árnadóttir, B Davíðsdóttir, E Shafiei	Decarbonization scenarios for Reykjavik's passenger transport: The combined effects of behavioural changes and technological developments	Technology
M Yona, G Birfir, S Kaplan	Data science and GIS-based system analysis of transit passenger complaints to improve operations and planning	Technology
Y Zhang, X Chen, L Yu	Evaluating the Emission and Energy Impacts of Automated Buses on Urban Expressways	Technology
M Jafari Kang, S Ataeian, S Amiripour	A procedure for public transit OD matrix generation using smart card transaction data	Technology
F Zúñiga, J Muñoz, R Giesen	Estimation and prediction of dynamic matrix travel on a public transport corridor using historical data and real-time information	Technology
C Moon-Miklaucic, A Maassen, X Li, S Castellanos	Financing Electric and Hybrid-Electric Buses: 10 Questions City Decision-Makers Should Ask	Economics
E Cooper, E Kenney, J Velasquez, X Li, TTun	Costs and Emissions Appraisal Tool for Transit Buses	Economics

S Comello, G Glenk, S Reichelstein	Transitioning to clean energy transportation services: Life-cycle cost analysis for vehicle fleets	Economics
K Gkiotsalitis, O Cats	At-stop control measures in public transport: Literature review and research agenda	Literature review
S Zhang, H Lo, K Ng, G Chen	Metro system disruption management and substitute bus service: a systematic review and future directions	Literature review
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I Tiznado-Aitken, J Muñoz, R Hurtubia	Public transport accessibility accounting for level of service and competition for urban opportunities: An equity analysis for education in Santiago de Chile	Policy
S Wang, Y Liu, J Corcoran	Equity of public transport costs before and after a fare policy reform: An empirical evaluation using smartcard data	Policy
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Z Liao, H Li, J Miao, F Corman	Railway capacity estimation considering vehicle circulation: Integrated timetable and vehicles scheduling on hybrid time-space networks	Infrastructure
J Barajas, A Brown	Not minding the gap: Does ride-hailing serve transit deserts?	Mode

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