



Conference Program

Sunday 11	Monday 12	Tuesday 13	Wednesday 14	Thursday 15
	Opening Plenary 9:00 – 10:30	Eric Pas Award Plenary 9:00 – 10:30	IATBR Lifetime Achievement Plenary 9:00 – 10:30	Parallel Sessions 9:00 – 10:40
	Coffee Break 10:30 – 11:00	Coffee Break 10:30 – 11:00	Coffee Break 10:30 – 11:00	Coffee Break 10:40 – 11:10
	Parallel Sessions 11:00 – 12:40	Parallel Sessions 11:00 – 12:40	Parallel Sessions 11:00 – 12:40	Closing Plenary 11:10 – 12:40
	Lunch 12:40 – 14:10	Vineyard Visit 12:40 – 18:30	Lunch 12:40 – 14:10	
	Parallel Sessions 14:10 – 15:50		Parallel Sessions 14:10 – 15:50	
	Coffee Break 15:50 – 16:20		Social Gathering 16:00 – 18:00	
	Parallel Sessions 16:20 – 18:00			
Welcome Reception 18:00 – 20:00				Closing Dinner 18:30 – 22:00



Parallel Sessions

Monday 12 / 11:00 – 12:40

- Room 201 Shared Mobility
- Room 204 Activities and Travel
- Room 205 New Methods for Travel Behaviour
- Room 206 Covid-19 and Mobility
- Room 207 Autonomous Mobility and New Technologies I
- Room 208 Integrated Models

Monday 12 / 14:10 – 15:50

- Room 201 Virtual Reality
- Room 204 Route Choice Models I
- Room 205 Discrete Choice and Econometrics
- Room 206 Cycling
- Room 207 Telecommuting and Working from Home I
- Room 208 Location Choice Modelling

Monday 12 / 16:20 – 18:00

- Room 201 Public Transport Analysis
- Room 204 Route Choice Models II
- Room 205 Online Activities
- Room 206 Pedestrian Modelling
- Room 207 Electric Mobility
- Room 208 Satisfaction

Tuesday 13 / 11:00 – 12:40

- Room 201 Ride-hailing and MaaS I
- Room 204 Car Use and Sustainable Travel
- Room 205 Time Use and Value of Time I
- Room 206 Travel Behaviour Applications I
- Room 207 Telecommuting and Working from Home II
- Room 208 Equity



Parallel Sessions

Wednesday 14 / 11:00 – 12:40

- Room 201 Ride-hailing and MaaS II
- Room 204 Tourism
- Room 205 Time Use and Value of Time II
- Room 206 Covid-19 Panel Analysis
- Room 207 Autonomous Mobility and New Technologies II
- Room 208 Attitudes and Behaviour

Wednesday 14 / 14:10 – 15:50

- Room 201 Public Transport Crowding
- Room 204 Long Distance Travel
- Room 205 Advanced Travel Behaviour Models
- Room 206 Dynamic Models and Trip Matrices
- Room 207 Telecommuting and Working from Home III
- Room 208 Driving and Parking Behaviour

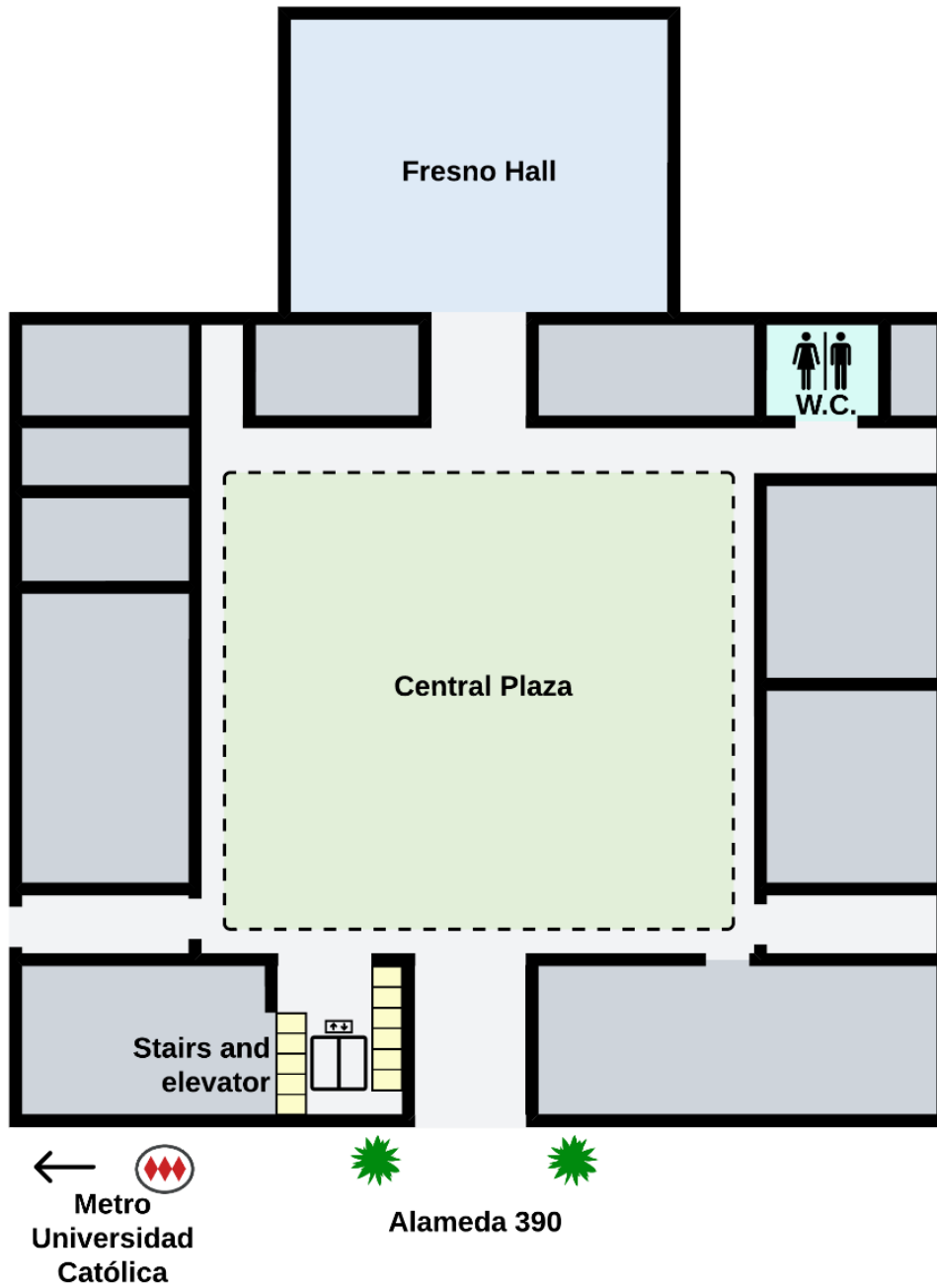
Thursday 15 / 9:00 – 11:40

- Room 201 Ride-hailing and MaaS III
- Room 204 Travel Behaviour and Policy
- Room 205 Machine Learning Applications
- Room 206 Environment
- Room 207 Travel Behaviour Applications II
- Room 208 Micro-mobility



Conference Venue

Centro de Extensión UC
Alameda 390, Santiago

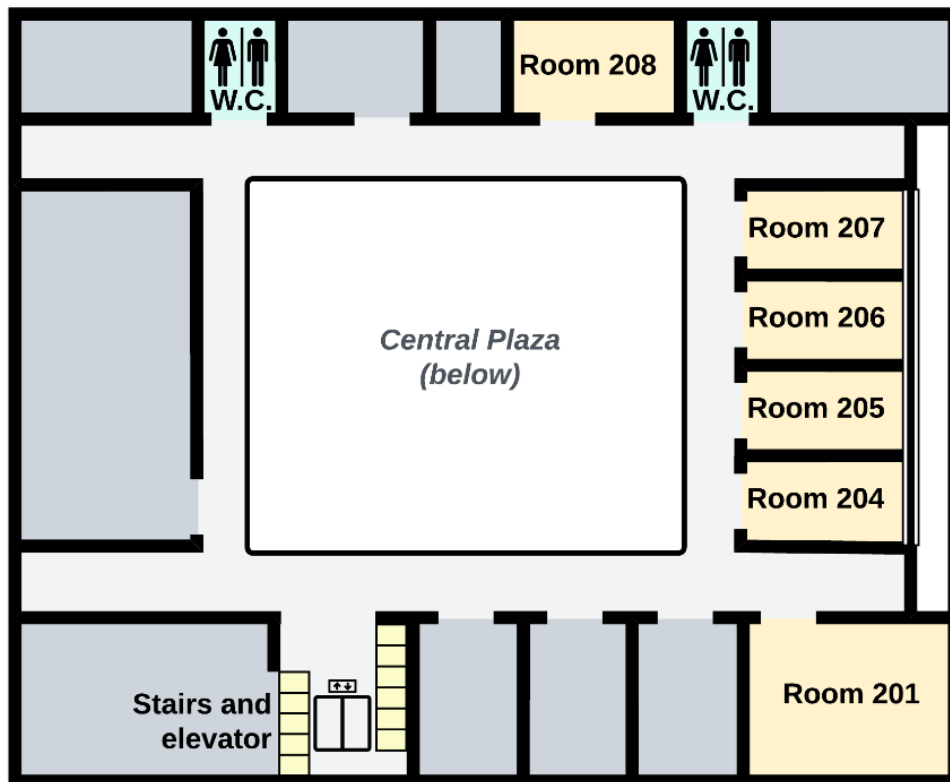




Conference Venue

How to get there:

- **By Metro:** the most convenient way to get to the IATBR 2021 Conference is by Metro. The venue is located at Universidad Católica station in Line 1.
- **By Uber:** simply use the address of the venue when requesting the ride.
- **By Taxi:** aside from the exact address, you can give the directions "Casa Central Universidad Católica" to the taxi driver.





Conference Activities

Welcome Reception Sunday, December 11

The Welcome Reception will be held at the UC School of Architecture

Address: Campus Lo Contador UC
El Comendador 1916, Providencia

How to get there:

- By Metro: the easiest way to get there is by Metro. The venue is located near Pedro de Valdivia station in Line 1. Then you can walk approx. 10 minutes: north through La Concepción, cross the Mapocho River and take a right at Los Conquistadores.
- By Uber: simply use the address of the venue when requesting the ride.
- By Taxi: aside from the exact address, you can give the directions "Campus Lo Contador Universidad Católica" to the taxi driver.

Vineyard Visit Tuesday, December 13

We will have lunch at a local winery in Casablanca Valley, visit the vineyard and have fun
Transport will be provided

Social Gathering Wednesday, December 14

A casual opportunity to drink, talk and watch football
It will be at the Conference Venue

Closing Dinner Thursday, December 15

The Closing Dinner will be held at Parque Araucano

Address: Parque Araucano
Presidente Riesco 5330, Las Condes

How to get there:

- By Metro: you can reach the park where the Closing Dinner will be held by Metro. The venue is located close to Manquehue station in Line 1. Then you can walk approx. 10 minutes: simply take Rosario Norte to the north to reach the park.
- By Uber: simply use the address of the venue when requesting the ride.
- By Taxi: aside from the exact address, you can give the directions "Parque Araucano" to the taxi driver.



Detailed Program

Sunday 11

18:00 – 20:00 **Welcome Reception**
UC School of Architecture
Campus Lo Contador UC
El Comendador 1916, Providencia

Monday 12

9:00 – 10:30 **Opening Plenary**
Fresno Hall
Prof. Juan de Dios Ortúzar
Future transportation: Sustainability, complexity and individualization of choices
Discussants: Elisabetta Cherchi, Eric Miller and Susan Handy

10:30 – 11:00 **Coffee Break**
Central Plaza

11:00 – 12:40 **Shared Mobility**
Room 201 Chair: Brian Caulfield

11:00 – 11:25 **How openness to sharing impacts the total vehicle kilometres with shared automated vehicles: A theoretical analysis**
Andrés Fielbaum and Baiba Pudane

11:25 – 11:50 **Sustainability analysis of shared on-demand transit with a focus on equity, diversity, and inclusion**
Nael Alsaleh and Bilal Farooq

11:50 – 12:15 **To share or to own? Understanding the willingness to adopt shared and owned automated vehicles on three continents**
Tim Dijkhuijs, Dea van Lierop and Fabian Israel

12:15 – 12:40 **First- and last-mile connections to public transport in Dublin: Analysis of mobility patterns, user experiences and preferences**
Giulia Oeschger, Páraic Carroll and Brian Caulfield



Monday 12

- 11:00 – 12:40 **Activities and Travel**
Room 204 Chair: Muchlisin Muchlisin
- 11:00 – 11:25 **What motivates people to work while travelling and what determines the associated productivity? A case study of the UK rail travellers using a SEM approach**
Alessandra Abeille, Jacek Pawlak, Caspar Chorus, Aruna Sivakumar and Eric Molin
- 11:25 – 11:50 **Analyzing the relationship between activity and social network spaces: Evidence from four databases in Chile**
Diego Medina and Juan Antonio Carrasco
- 11:50 – 12:15 **Who are working remotely under Covid-19 pandemic? A big data analysis with the activity simulator for the post-pandemic transportation planning**
Ryosuke Isaka, Kuniaki Sasaki and Akira Kikuchi
- 12:15 – 12:40 **The effect of Covid-19 on food delivery and eating out trips in Yogyakarta, Indonesia**
Muchlisin Muchlisin, Anae Sobhani and Dick Ettema

- 11:00 – 12:40 **New Methods for Travel Behaviour**
Room 205 Chair: Qin Zhang
- 11:00 – 11:25 **Using a mathematical representation of brain processes to explain decision making: Adapting the free energy/active inference principle for travel behaviour modelling**
Stephane Hess, Thomas Hancock, Charisma Choudhury, Faisal Mushtaq, Mark Mon-Williams, Michiel Bliemer, Matthew Beck and Muhammad Fayyaz
- 11:25 – 11:50 **Implementing psychological choice models on real-world data: Theoretical extensions for Decision Field Theory**
Thomas Hancock, Charisma Choudhury, Stephane Hess and Panagiotis Tsoleridis
- 11:50 – 12:15 **The impact of transport-related factors on social interactions: a new computer vision-based approach**
Francisco Garrido-Valenzuela, Sander van Cranenburgh and Oded Cats
- 12:15 – 12:40 **Defining travel routines and disruptions using Data-Driven Machine Learning approaches**
Qin Zhang, Rolf Moeckel and Kelly Clifton



Monday 12

- 11:00 – 12:40 **Covid-19 and Mobility**
Room 206 Chair: Hannah Hook
- 11:00 – 11:25 **Investigation of travel and driving pattern evolution in the post-pandemic era**
Dimitrios Tselentis and Eleonora Papadimitriou
- 11:25 – 11:50 **Analyzing changes in activity patterns and impacts on travel behavior during Covid-19 with a Multiple Discrete-Continuous Extreme Value (MDCEV) Model**
Maha Ahmad, Maria Carolina Lecompte, David Bunch and Giovanni Circella
- 11:50 – 12:15 **Exploring the relationship between Covid-19 transmission and population mobility over time**
Tanmoy Bhowmik and Naveen Eluru
- 12:15 – 12:40 **Breaking down post-pandemic daily mobility: Characteristics, motivations, and satisfaction among trip types**
Hannah Hook, Jonas De Vos, Veronique Van Acker and Frank Witlox

- 11:00 – 12:40 **Autonomous Mobility and New Technologies I**
Room 207 Chair: Ali Ardeshiri
- 11:00 – 11:25 **The role of automation in attracting passengers to bus services in Scotland**
Lucy Downey, Achille Fonzone and Grigorios Fountas
- 11:25 – 11:50 **Applying serious games in choice models of shared automated vehicles**
Shelly Etzioni, Mor Collins, Eran Ben-Elia and Yoram Shiftan
- 11:50 – 12:15 **Impact of vehicle automation on walking and cycling in contrasting locales**
Tony Arnold, Michiel Bliemer and Stephen Greaves
- 12:15 – 12:40 **Public preferences for testing and trialling of CAV technologies**
Ali Ardeshiri, Akshay Vij and V. Anilan



Monday 12

- 11:00 – 12:40 **Integrated Models**
Room 208 Chair: Adrian Meister
- 11:00 – 11:25 **An integrated transportation and power system model for a decarbonizing world**
Matthew Dean, Krishna Murthy Gurumurthy, Zhi Zhou, Omer Verbas and Kara Kockelman
- 11:25 – 11:50 **Next-generation integrated urban systems modelling: A preliminary discussion**
Marianne Hatzopoulou, Matthew Roorda, Amer Shalaby and Eric Miller
- 11:50 – 12:15 **An integrated framework to simulate daily schedules of activities**
Janody Pougala, Tim Hillel and Michel Bierlaire
- 12:15 – 12:40 **Comparison and validity of different route choice models for cyclists**
Adrian Meister, Milos Balac, Grace Kagho, Matteo Felder and Kay Axhausen

- 12:40 – 14:10 **Lunch**
Fresno Hall

- 14:10 – 15:50 **Virtual Reality**
Room 201 Chair: Elisabetta Cherchi
- 14:10 – 14:35 **A virtual reality study of neural and cognitive processing of road hazards**
Martyna Fidler, Robin Palmberg, Yusak Susilo and Shun Su
- 14:35 – 15:00 **Effect of age, gender, and spatial familiarity on pedestrian wayfinding and evacuation behaviour**
Yan Feng, Dorine Duives and Serge Hoogendoorn
- 15:00 – 15:25 **The role of social conformity in pedestrian-autonomous vehicles interaction**
Mohsen Nazemi, Tangxu Zhao, Daniel Ramos, Bilal Farooq, Hao Yin, Melike Bektas and Elisabetta Cherchi
- 15:25 – 15:50 **A stated choice experiment embedded in immersive virtual reality to estimate preference for fully automated taxis**
Hao Yin and Elisabetta Cherchi



Monday 12

- 14:10 – 15:50 **Route Choice Models I**
Room 204 Chair: Laurent Cazor
- 14:10 – 14:35 **A joint route choice model for frequent and infrequent cyclists based on crowd-sourced GPS data**
Mirosława Lukawska, Thomas Kjær Rasmussen, Mads Paulsen, Anders Fjendbo Jensen and Otto Nielsen
- 14:35 – 15:00 **Comparison of pedestrians wayfinding and gazing behaviour between a real and virtual multi-story building**
Arco van Beek, Yan Feng, Dorine Duives and Serge Hoogendoorn
- 15:00 – 15:25 **A prism-constrained recursive logit model to analyze positive utilities in pedestrian route choice behavior**
Yuki Oyama
- 15:25 – 15:50 **Formulation and estimation of a network route choice model that consistently bounds local and global detours**
Laurent Cazor, Lawrence Duncan, Thomas Rasmussen and Otto Nielsen

- 14:10 – 15:50 **Discrete Choice and Econometrics**
Room 205 Chair: Jose Ignacio Hernandez
- 14:10 – 14:35 **Estimating choice models from discrete choice experiments with customization-induced endogeneity**
David Bunch, David Brownstone and Debapriya Chakraborty
- 14:35 – 15:00 **Addressing endogeneity in strategic urban mode choice models**
Thomas Guerrero, C. Angelo Guevara, Elisabetta Cherchi and Juan De Dios Ortúzar
- 15:00 – 15:25 **A revealed preference methodology to evaluate regret minimization with challenging choice sets: A wildfire evacuation case study**
Stephen Wong, Caspar Chorus, Susan Shaheen and Joan Walker
- 15:25 – 15:50 **Presenting constrained portfolio choice experiments to elicit travellers' preferences**
Jose Ignacio Hernandez, Niek Mouter, Caspar Chorus and Sander Van Cranenburgh



Monday 12

- 14:10 – 15:50 **Cycling**
Room 206 Chair: Patrick Singleton
- 14:10 – 14:35 **Using age similarities to assess homophily-driven social connectivity among bike sharing users**
Dmitry Gimon
- 14:35 – 15:00 **Environmental factors influencing cycle-commuting changes over time: a longitudinal study from Santiago de Chile**
Tomás Echiburú and Ricardo Hurtubia
- 15:00 – 15:25 **To use or not to use bike-share: what factors influence adoption and use frequency?**
Hossain Mohiuddin, Tatsuya Fukushige, David Bunch, Dillon Fitch and Susan Handy
- 15:25 – 15:50 **Perceived comfort and preferences about roundabouts among US bicyclists**
Patrick Singleton and Niranjana Poudel

- 14:10 – 15:50 **Telecommuting and Working from Home I**
Room 207 Chair: Rodrigo Victoriano
- 14:10 – 14:35 **Attitudes and perception towards Covid-19 and work from home and its impact on travel behaviour in 2020 versus 2021 in Australia**
Camila Balbontin, David Hensher and Matthew Beck
- 14:35 – 15:00 **Identifying teleworking-related motives and comparing travel behavior expectations in the post-pandemic world: A latent class modeling approach**
Xinyi Wang, Sung Hoo Kim and Patricia Mokhtarian
- 15:00 – 15:25 **Examining the treatment effect of teleworking on vehicle-miles driven: A close look into the roles of teleworking frequency and travel stress**
Xinyi Wang and Patricia Mokhtarian
- 15:25 – 15:50 **Were people more active when they telecommuted during Covid-19? A panel study in Montréal, Canada**
Rodrigo Victoriano and Ahmed El-Geneidy



Monday 12

- 14:10 – 15:50 **Location Choice Modelling**
Room 208 Chair: Benjamin Gramsch
- 14:10 – 14:35 **Refugees' recursive route choice analysis of long-term evacuation and return under nuclear crisis**
Rena Koseki and Eiji Hato
- 14:35 – 15:00 **Modelling migration intentions using advanced discrete choice models**
Silvia Varotto and Michel Bierlaire
- 15:00 – 15:25 **Rational inattention in residential mobility and home location choices: An experimental investigation through a stated preference survey**
Saeed Shakib and Khandker Nurul Habib
- 15:25 – 15:50 **Social networks, location choice and urban diversity: Survey methods and results**
Benjamin Gramsch and Kay Axhausen

- 15:50 – 16:20 **Coffee Break**
Central Plaza

- 16:20 – 18:00 **Public Transport Analysis**
Room 201 Chair: Jesper Bláfoss Ingvardson
- 16:20 – 16:45 **Mixed Logit modelling of transit mode choice using Asymmetrical Triangular Mixing Densities**
Sam Pollock, Adam Weiss, Alexandre de Barros and Lina Kattan
- 16:45 – 17:10 **Can the decoy effect influence public transportation demand?**
Diego Fuentealba and C. Angelo Guevara
- 17:10 – 17:35 **Public Transit Demand Prediction during highly dynamic conditions: A meta-analysis of state-of-the art models**
Juan Caicedo, Marta Gonzalez and Joan Walker
- 17:35 – 18:00 **Habit and shock effects in public transport: The case of metro line 6 in Santiago using smart card data**
Jesper Bláfoss Ingvardson, Sebastián Raveau and Jaime Soza-Parra



Monday 12

- 16:20 – 18:00 **Route Choice Models II**
Room 204 Chair: Kaili Wang
- 16:20 – 16:45 **Evaluating practical approaches for building the consideration set in route choice modeling using smart card data from a large-scale public transport network**
Jacqueline Arriagada, Angelo Guevara and Marcela Munizaga
- 16:45 – 17:10 **Route choice decisions under travel time uncertainty with experiential learning in a simulated environment**
Michiel Bliemer, Matthew Beck, Muhammad Fayyaz and Stephane Hess
- 17:10 – 17:35 **Public transit itinerary choice analysis considering various incentives**
Long Pan, E.O.D. Waygood and Zachary Patterson
- 17:35 – 18:00 **Investigating the impact of Covid-19 on post-pandemic transit demand using hybrid choice model**
Sk Md Mashrur, Kaili Wang and Khandker Nurul Habib
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- 16:20 – 18:00 **Online Activities**
Room 205 Chair: Anugrah Ilahi
- 16:20 – 16:45 **On the interplay between online and in-person shopping participations in a transformed activity-travel environment**
Angela Haddad, Abbie Dirks, Irfan Batur, Ram Pendyala and Chandra Bhat
- 16:45 – 17:10 **Covid-19 impacts in shopping related trips – A before and after analysis in Lisbon, Portugal**
Rui Colaço and João Abreu e Silva
- 17:10 – 17:35 **Have we unintentionally made some people more socially-excluded than others? Behavioural change analysis from physical to online shopping alternatives during Covid-19 pandemic**
Yusak Susilo, Claudia Andruetto, Elisa Bin and Anna Pernestål
- 17:35 – 18:00 **The impact of Covid-19 on time use and travel time budget of physical and online activities; Three waves survey in Austria**
Anugrah Ilahi, Yusak Susilo and Reinhard Hössinger



Monday 12

- 16:20 – 18:00 **Pedestrian Modelling**
Room 206 Chair: Bilal Farooq
- 16:20 – 16:45 **Pedestrians in fully automated vehicle transportation systems: Perceptions of stress**
Michelle Specktor, Yoram Shiftan and Avi Parush
- 16:45 – 17:10 **Causal inference of pedestrian behavior with-without Covid-19 in high density Shibuya urban spaces**
Kana Masuhashi and Eiji Hato
- 17:10 – 17:35 **On the perception of traffic stress - A controlled experiment with pedestrians and bicyclists**
Johanna Vogt, Simone Weikl, Lisa Kessler, Andreas Keler and Klaus Bogenberger
- 17:35 – 18:00 **Deep causal inference model of pedestrian crossing behaviour in mixed traffic conditions**
Kimia Kamal and Bilal Farooq

- 16:20 – 18:00 **Electric Mobility**
Room 207 Chair: Hamed Naseri
- 16:20 – 16:45 **Joint models of car segment and fuel type choice for alternative fuel vehicles: Application to the UK market**
Cristian Domarchi and Elisabetta Cherchi
- 16:45 – 17:10 **Eliciting preferences of electric vehicle buyers by calibrating a joint choice and response time model using eye-movement data**
Jiaxuan Ding and Prateek Bansal
- 17:10 – 17:35 **Are the charging needs and preferences of electric vehicle early adopters similar to those of mainstream consumers? An exploratory analysis**
Patricia Lavieri and Gabriel Jurado Martins de Oliveira
- 17:35 – 18:00 **An interpretable Machine Learning approach to predict who will buy electric vehicles**
Hamed Naseri, Owen Waygood, Bobin Wang and Zachary Patterson



Monday 12

- 16:20 – 18:00 **Satisfaction**
Room 208 Chair: Richa Maheshwari
- 16:20 – 16:45 **Travel satisfaction and mode choice preferences for elderly population of Halifax**
Hasan Shahrier, Muhammad Habib and Devin Husk
- 16:45 – 17:10 **Measuring customer satisfaction with public transport: Comparison of the Net Promoter Score (NPS), the Customer Satisfaction Score (CSAT), and the Satisfaction with Travel Scale (STS)**
Mario Cools
- 17:10 – 17:35 **Understanding transit user satisfaction in a tripartite integrated transit system**
Alvaro Rodriguez-Valencia, Hernan Ortiz-Ramirez, Willis Simancas and Jose Agustin Vallejo-Borda
- 17:35 – 18:00 **How does dissatisfaction with commuting influence life events and travel behaviour in subsequent years?**
Richa Maheshwari, Veronique Van Acker, Jonas De Vos and Frank Witlox



Tuesday 13

9:00 – 10:30

Eric Pas Award Plenary

Fresno Hall

Dr. Thomas Hancock

Travel behaviour modelling at the interface between econometrics and mathematical psychology

Dr. Stephen Wong

Compliance, congestion, and social equity: Tackling critical evacuation challenges through the sharing economy, joint choice modelling, and regret minimization

Moderator: Taha Rashidi

10:30 – 11:00

Coffee Break

Central Plaza

11:00 – 12:40

Ride-hailing and MaaS I

Room 201 Chair: Patrick Loa

11:00 – 11:25

A complementarity formulation for modelling a multimodal transport system

Ali Najmi, Wei Liu and Taha Rashidi

11:25 – 11:50

A multitask learning deep neural networks model of joint revealed and stated preference analysis: Exploratory analysis on changes in ride-sourcing utilization during the Covid-19 pandemic in Toronto

Yicong Liu, Patrick Loa, Kaili Wang and Khandker Nurul Habib

11:50 – 12:15

Simulating human driver trip acceptance and relocation behaviour in ridehailing fleets

Krishna Murthy Gurumurthy, Natalia Zuniga-Garcia, Felipe de Souza and Joshua Auld

12:15 – 12:40

Modelling travel mode choice with explicit consideration of ride-sourcing in the choice set: assessing the impact of Covid-19 on Toronto's ride-sourcing service demands

Patrick Loa and Khandker Nurul Habib



Tuesday 13

- 11:00 – 12:40 **Car Use and Sustainable Travel**
Room 204 Chair: Lukas Barthelmes
- 11:00 – 11:25 **Encouraging sustainable mode choice among commuters**
Attila Aba, Tamás Tettamanti and Domokos Esztergár-Kiss
- 11:25 – 11:50 **Who is ready to live a car-independent lifestyle? A latent class cluster analysis of attitudes towards car ownership and usage**
Jaime Soza-Parra and Oded Cats
- 11:50 – 12:15 **Household fleet composition as reaction to political price regulation: A stated adaptation experiment on the promotion of electric vehicles**
Margarita Gutjar and Matthias Kowald
- 12:15 – 12:40 **Investigating latent determinants of autonomous vehicle ownership using a structural equation model**
Lukas Barthelmes, Miriam Magdolen, Martin Kagerbauer and Peter Vortisch

- 11:00 – 12:40 **Time Use and Value of Time I**
Room 205 Chair: Caroline Winkler
- 11:00 – 11:25 **Solving the activity timing problem with a time allocation model: A revised MDCEV approach to the UK time-use data**
Zifan Wu, Aruna Sivakumar, Ahmadreza Faghieh Imani and Jacek Pawlak
- 11:25 – 11:50 **Heterogeneous preferences for time use while traveling in autonomous vehicles**
Ilsu Kim, Yongsung Lee, Patricia Mokhtarian and Giovanni Circella
- 11:50 – 12:15 **A framework to quantify impacts of in-trip work activities on time-use, earning patterns, and value of travel time savings**
Yu-Tong Cheng, Patricia Lavieri and Sebastián Astroza
- 12:15 – 12:40 **Evaluating design configurations of a large-scale time use, travel, and expenditure diary survey for optimal data quality and respondent retention**
Caroline Winkler, Adrian Meister, Basil Schmid and Kay Axhausen



Tuesday 13

- 11:00 – 12:40 **Travel Behaviour Applications I**
Room 206 Chair: Rodrigo Javier Tapia
- 11:00 – 11:25 **Microscopic interaction model between land ownership-pedestrian trip chains with integrated structure estimation algorithm**
Risa Kobayashi and Eiji Hato
- 11:25 – 11:50 **An auction mechanism to facilitate collaboration between rideshare and transit service providers for first- and last-mile services**
Vishal Kushwaha, Abdul Pinjari, Saiyed Shaukat, Rajesh Sundaresan, Pranay Verma and Yasufumi Suzuki
- 11:50 – 12:15 **Understanding the joint decision-making process of leisure destination choices: Exploring new methodologies**
Giancarlos Parady, Yuki Oyama and Makoto Chikaraishi
- 12:15 – 12:40 **The effect of trust on crowdshipping service choice**
Merve Seher Cebeci, Rodrigo Javier Tapia, Maarten Kroesen and Lóránt Tavasszy

- 11:00 – 12:40 **Telecommuting and Working from Home II**
Room 207 Chair: Katherine Asmussen
- 11:00 – 11:25 **Activity and time-use diary for a neighbourhood telecommuting centre in Stockholm, Sweden**
Bhavana Vaddadi, Yusak Susilo and Anna Pernestål
- 11:25 – 11:50 **The effects of working from home on travel demand: A longitudinal analysis before and during Covid-19**
Roel Faber, Marije Hamersma, Maarten Kroesen and Eric Molin
- 11:50 – 12:15 **Will Covid-19 accelerate telecommuting? A cross-country evaluation for Israel and Czechia**
Ayelet Kogus, Yoram Shifan and Ayelet Galtzur
- 12:15 – 12:40 **On investigating the evolving employee preferences for work location**
Katherine Asmussen, Aupal Mondal, Ram Pendyala and Chandra Bhat



Tuesday 13

11:00 – 12:40

Equity

Room 208

Chair: Joshua Auld

11:00 – 11:25

Impact of commute on daily activity participation and time-use decisions of workers in metropolitan cities of india: A gender differential analysis

Shobhit Saxena, Abdul Pinjari and Anik Burman

11:25 – 11:50

Social equity impacts of public transit service cuts during Covid-19

Armita Kar, Andre Carrel, Harvey Miller and Huyen Le

11:50 – 12:15

Estimating block diagonal covariance matrix to forecast use and impacts of public microtransit before, during, and after the Covid-19 pandemic

Emma Lucken, Jessica R. Lazarus, Susan A. Shaheen and Joan L. Walker

12:15 – 12:40

Impact of transit service cuts, telecommuting and Covid-19 risk perception on mobility, energy, emissions, and equity

Joshua Auld, Omer Verbas, Mary Rose Fissinger and Scott Wainwright

12:40 – 18:00

Vineyard Visit

Casa Valle - Viñamar

Casablanca Valley



Wednesday 14

9:00 – 10:30

IATBR Lifetime Achievement Plenary

Fresno Hall

Prof. Patricia Mokhtarian

Pursuing the impossible (?) dream: Incorporating attitudes into regional models

Discussants: Chandra Bhat, Michiel Bliemer and Ricardo Daziano

10:30 – 11:00

Coffee Break

Central Plaza

11:00 – 12:40

Ride-hailing and MaaS II

Room 201 Chair: Francisco Bahamonde-Birke

11:00 – 11:25

Evaluating the perception of waiting time variability for ride-hailing services

Nejc Geržinič, Oded Cats, Sascha Hoogendoorn-Lanser, Niels van Oort and Serge Hoogendoorn

11:25 – 11:50

Modelling human drivers of ridehailing services

Francisco Calderón and Eric Miller

11:50 – 12:15

Willingness to adopt and pay for Mobility as a Service (MaaS) in island areas: A case study from Greece

Georgios Papaioannou, Amalia Polydoropoulou, Ioanna Pagoni, Athina Tsimpa and Ioannis Tsouros

12:15 – 12:40

How do I want the city council to spend our budget? Conceiving MaaS from a citizen's perspective... (as well as biking infrastructure and public transport)

Francisco Bahamonde-Birke, Niek Mouter, Dea van Lierop, Dick Ettema and Iris Geigenmüller



Wednesday 14

- 11:00 – 12:40 **Tourism**
Room 204 Chair: Xinming Li
- 11:00 – 11:25 **Inferring city-scale tours based on Wi-Fi sensing with aid of a small sample of GPS footprints**
Yuhan Gao and Jan Dirk Schmoecker
- 11:25 – 11:50 **Analyzing overseas visitors' travel behavior at a world natural heritage site using Wi-Fi packet sensors**
Ryo Yamanaka, Daisuke Kamiya, Atsushi Uechi and Daisuke Fukuda
- 11:50 – 12:15 **Extending the model of goal directed behavior to understand outdoor recreation intentions during Covid-19: The role of constraints, negotiations, motivations and information search**
Prasanna Humagain and Patrick Singleton
- 12:15 – 12:40 **How will the Australia's indigenous tourism develop along with transport modes and accommodations?**
Xinming Li, Taha Hossein Rashidi and Tay Koo

- 11:00 – 12:40 **Time Use and Value of Time II**
Room 205 Chair: Abbie Dirks
- 11:00 – 11:25 **Impacts of Covid-19 on daily activity time expenditure choices: A post-pandemic stability assessment**
Alireza Dianat, Kaili Wang and Khandker Nurul Habib
- 11:25 – 11:50 **Food consumption and purchase mobility patterns: Assessing the role of time use, social capital, and attitudes**
Ruben Miranda, Juan Antonio Carrasco and Sebastián Astroza
- 11:50 – 12:15 **The value of travel time in Switzerland: Short- versus long-term choice behavior**
Basil Schmid, Thomas Schatzmann, Caroline Winkler and Kay Axhausen
- 12:15 – 12:40 **How did the Covid-19 pandemic impact subjective well-being? Implications for the future of activity-mobility patterns and time use**
Irfan Batur, Tassio Magassy, Abbie Dirks, Ram Pendyala and Chandra Bhat



Wednesday 14

- 11:00 – 12:40 **Covid-19 Panel Analysis**
Room 206 Chair: Francesco Piras
- 11:00 – 11:25 **Exploring the reciprocal effects between Covid-19 infection fears, working from home, train use and attitudes**
Maarten Kroesen, Jonas De Vos, Huyen Le and Danique Ton
- 11:25 – 11:50 **Evolution of mode use due to Covid-19 in the United States: Implications for the future of transit**
Tassio Magassy, Irfan Batur, Abbie Dirks, Ram Pendyala and Chandra Bhat
- 11:50 – 12:15 **The use of online opinion panels in transportation research**
Giovanni Circella, Jai Malik, Grant Matson, Xiatian Wu, Yongsung Lee, Farzad Alemi and Patricia Mokhtarian
- 12:15 – 12:40 **Understanding the impact of Covid-19 pandemics on travel behavior in Italy: an experimental analysis on panel data**
Francesco Piras, Eleonora Sottile and Italo Meloni

- 11:00 – 12:40 **Autonomous Mobility and New Technologies II**
Room 207 Chair: Prateek Bansal
- 11:00 – 11:25 **Analysis of advanced air mobility adoption**
Motahare Mohammadi, Amir Davatgari, Ehsan Rahimi, Taha Hossein Rashidi and Abolfazl Mohammadian
- 11:25 – 11:50 **Investigating the sources of heterogeneity in the context of preferences towards new transport modes**
Thomas Hancock, Fangqing Song, Arash Kalatian and Charisma Choudhury
- 11:50 – 12:15 **Measuring willingness to accept new mobilities: evidence from RP-SP data in an aging community of Japan**
Yuhan Gao, Hitomi Sato, Seishu Kitamura, Toshiyuki Nakamura, Takayuki Morikawa and Tomohiro Otani
- 12:15 – 12:40 **A general framework to forecast the adoption of novel products: A case of autonomous vehicles**
Subodh Dubey, Ishant Sharma, Sabyasachee Mishra, Oded Cats and Prateek Bansal



Wednesday 14

- 11:00 – 12:40 **Attitudes and Behaviour**
Room 208 Chair: Daniele Giubergia
- 11:00 – 11:25 **How attitudes and behaviour are related during the corona pandemic**
Mathijs de Haas, Roel Faber and Maarten Kroesen
- 11:25 – 11:50 **Investigating the combination of transtheoretical and the theory of planned behavior paradigms through PLS-SEM: an application to vehicle type choice behavior**
Stefano de Luca, Francesca Bruno and Roberta Di Pace
- 11:50 – 12:15 **Suburban mobility styles in German context: Transcendental potentials of restructuring the surrounding automobile landscape?**
Sören Groth and Jan Garde
- 12:15 – 12:40 **The role of social norm and information in eliciting a sustainable travel behaviour change: an Integrated Choice and Latent Variable model**
Daniele Giubergia, Francesco Piras, Eleonora Sottile, Giovanni Tuveri and Italo Meloni

- 12:40 – 14:10 **Lunch**
Fresno Hall

- 14:10 – 15:50 **Public Transport Crowding**
Room 201 Chair: Bogdan Kapatsila
- 14:10 – 14:35 **Behavioural modelling of metro car choice**
Mathias Moller and Sebastián Raveau
- 14:35 – 15:00 **Crowd avoidance behavior in mode choice under Covid-19 in New York City**
Tomas Rossetti and Ricardo Daziano
- 15:00 – 15:25 **The omitted variable problem in mode choice models: Strengthening the case for considering public transit crowding in the wake of the Covid-19 pandemic**
Mehek Biswas, Abdul Pinjari and Deepa L
- 15:25 – 15:50 **Probabilistic market segmentation of transit users in Vancouver, Canada, during the Covid-19 pandemic**
Bogdan Kapatsila, Francisco J. Bahamonde-Birke, Dea van Lierop and Emily Grisé



Wednesday 14

- 14:10 – 15:50 **Long Distance Travel**
Room 204 Chair: Natalia Zuniga
- 14:10 – 14:35 **Self-driving vehicles' impacts on Americans' long-distance travel choices**
Fatemeh Fakhrmoosavi, Priyanka Paithankar, Kara Kockelman and Jason Hawkins
- 14:35 – 15:00 **Transport mode choice for long-distance vacation trips to alpine resorts: A destination perspective**
Bartosz Bursa, Elisabeth Stich and Markus Mailer
- 15:00 – 15:25 **Long-distance recreational travel experience and choice of autonomous vehicles**
Sailesh Acharya and Michelle Mekker
- 15:25 – 15:50 **Long-distance travel impacts of automated vehicles: A survey of American households**
Yantao Huang, Natalia Zuniga-Garcia and Kara Kockelman

- 14:10 – 15:50 **Advanced Travel Behaviour Models**
Room 205 Chair: David Palma
- 14:10 – 14:35 **A framework for modeling deliberately intrapersonal choice randomness - application to a case study on multimodal shared mobility hubs**
Fanchao Liao and Gonçalo Homem de Almeida Correia
- 14:35 – 15:00 **A new closed-form two-stage budgeting-based multiple discrete-continuous model**
Chandra Bhat
- 15:00 – 15:25 **Global and local variable importance from Multinomial Logit Model using Shapley values - based methods: A travel mode choice application**
Patricio Salas, Sebastian Astroza, Rodrigo De La Fuente and Juan Antonio Carrasco
- 15:25 – 15:50 **Extending Multiple Discrete Continuous (MDC) modelling to consider complementarity, substitution, and unobserved budgets**
David Palma and Stephane Hess



Wednesday 14

- 14:10 – 15:50 **Dynamic Models and Trip Matrices**
Room 206 Chair: Pablo Guarda
- 14:10 – 14:35 **A flexible and scalable algorithm for O-D inference using IoT data**
Wei Sun, Akshay Vij, Nicholas Kaliszewski and Ali Ardeshiri
- 14:35 – 15:00 **Comparing machine learning and choice models for modelling the time-use dynamics during the COVID-19 pandemic in the UK**
Azam Ali and Charisma Choudhury
- 15:00 – 15:25 **Dynamic travel behaviour: Findings of a stated adaptation experiment and modelling framework**
Dimitrios Pappelis, Maria Kamargianni and Emmanouil Chaniotakis
- 15:25 – 15:50 **Estimating stochastic user equilibrium using day-to-day system-level data: A computational graph approach**
Pablo Guarda, Sean Qian and Matthew Battifarano

- 14:10 – 15:50 **Telecommuting and Working from Home III**
Room 207 Chair: Ricardo Hurtubia
- 14:10 – 14:35 **Understanding telecommuting following Covid-19 mobility restrictions: The importance of commute satisfaction and attitudes**
Hernan Ortiz-Ramirez, Alvaro Rodriguez-Valencia and Santiago Alexander Mesa-García
- 14:35 – 15:00 **Schedule flexibility: Benefits, costs and post-pandemic implications**
Baiba Pudane
- 15:00 – 15:25 **Change in mobility-related attitudes during the Covid-19 pandemic among teleworkers vs. physical commuters**
Andrea Hausbauer, Jai Malik, Giovanni Circella, Xiatian Wu and Tibor Petzoldt
- 15:25 – 15:50 **Socioeconomic and perceptual factors influencing telecommuting decisions during the Covid-19 pandemic in Santiago, Chile**
Ricardo Hurtubia, Alejandro Tirachini, Sebastián Astroza, Angelo Guevara, Juan Antonio Carrasco and Marcela Munizaga



Wednesday 14

- 14:10 – 15:50 **Driving and Parking Behaviour**
Room 208 Chair: Christopher Tchervenkov
- 14:10 – 14:35 **Analyzing the determinants of cruising for parking**
Tobias Hagen, Siavash Saki and Sabine Scheel-Kopeinig
- 14:35 – 15:00 **Travel behaviour on tolled lanes before and during lockdown**
Shihan Lin and Cinzia Cirillo
- 15:00 – 15:25 **A Recursive Logit Model for vacant taxi routing behavior prediction**
Guocheng Jiang and Song Gao
- 15:25 – 15:50 **Measuring parking search behaviour using GPS data**
Christopher Tchervenkov and Kay Axhausen

- 15:50 – 18:00 **Social Gathering**
Fresno Hall



Thursday 15

9:00 – 10:40

Ride-hailing and MaaS III

Room 201 Chair: James Giller

9:00 – 9:25

Factors influencing the frequency of ride-hailing use and the choice of ride-hailing for commuting in an emerging economy: A Brazilian case study

Ana Luiza Santos de Sá, Patricia Lavieri and Cira Souza Pitombo

9:25 – 9:50

Ride-sourcing demand estimation using discrete choice models: Accounting for sample selection and endogeneity biases

Rico Krueger, Michel Bierlaire and Prateek Bansal

9:50 – 10:15

Heterogeneous preferences for pooled ridehailing services: A case study on southern cities in the United States

Yongsung Lee and Giovanni Circella

10:15 – 10:40

Investigating the determinants of consumer preferences for automated versus human drivers in future ridehailing services in California

James Giller, Junia Compostella, Jaime Soza-Parra, Yongsung Lee, Giovanni Circella and David Bunch

9:00 – 10:40

Travel Behaviour and Policy

Room 204 Chair: Marisol Castro

9:00 – 9:25

Inequality burden: How the accumulation of social disparities impacts tour complexity

Shanna Trichês Lucchesi, João de Abreu e Silva and Ana Margarita Larranaga

9:25 – 9:50

Transport poverty and the roles of public transport in individual travel behavior for the inclusiveness of developing cities

Yuma Tsumura, Hirohisa Kawaguchi, Naoki Murayama, Noriaki Nishimiya, Tomoyoshi Suzuki and Yurie Hirabayashi

9:50 – 10:15

Does Transit Oriented Development (TOD) increase ridership?

Gülin Göksu Başaran, Jesper Bláfoss Ingvardson and Otto Nielsen

10:15 – 10:40

Designing congestion pricing schemes for public acceptability: The case of Buenos Aires

Marisol Castro, Margareth Gutiérrez, Esteban Figueroa and Agustín Campos



Thursday 15

9:00 – 10:40

Machine Learning Applications

Room 205 Chair: Yushi Ishijima

9:00 – 9:25

Using computer vision enriched discrete choice models to explore the importance of street-level factors in the residential location choice

Sander Van Cranenburgh and Francisco Garrido-Valenzuela

9:25 – 9:50

Analysing citizens' preferences for urban mobility investments from a data-driven perspective: using machine learning methods for a Participatory Value Evaluation experiment

Jose Ignacio Hernandez, Sander van Cranenburgh, Caspar Chorus and Niek Mouter

9:50 – 10:15

Wisdom of the crowd: compare and combine models for out-of-distribution forecasting

Stephane Hess and Sander van Cranenburgh

10:15 – 10:40

Interpretability of machine-learning based travel behavior models using XAI

Yushi Ishijima, Hideki Yaginuma, Shintaro Terabe and Haruka Uno

9:00 – 10:40

Environment

Room 206 Chair: Claire Sugihara

9:00 – 9:25

Clean planes, offsets, flight-shame: Travellers' views on the future of air travel across nine countries

Fangqing Song, Charisma Choudhury, Chiara Calastri, Sabreena Anowar, Maria Bratt Börjesson, Juan Antonio Carrasco, Riccardo Colantuono, Abdul Rawoof Pinjari, Yacan Wang and Shamsunnahar Yasmin

9:25 – 9:50

How pandemic and environmental concerns shape post-pandemic air travel behaviour: A cross-national hybrid choice modelling analysis

Francesco Manca, Jacek Pawlak and Aruna Sivakumar

9:50 – 10:15

Who is willing to pay for greenhouse gas emission reductions?

Bobin Wang, Owen Waygood, Xun Ji, Zachary Patterson, Hamed Naseri, Ricardo Daziano and Matthew Feinberg

10:15 – 10:40

The race to zero-emission freight: Hurdles to electrification in the heavy-duty trucking sector

Claire Sugihara, Scott Hardman and Kenneth Kurani



Thursday 15

9:00 – 10:40

Travel Behaviour Applications II

Room 207 Chair: Nicola Ortelli

9:00 – 9:25

A seemingly unrelated regression model with attitudes for analyzing transportation behavior

Monique Stinson and Abolfazl Mohammadian

9:25 – 9:50

A dynamic activity scheduling model for correcting fatalities' non-response bias in tsunami evacuation

Satoki Masuda, Takuya Iizuka and Eiji Hato

9:50 – 10:15

Motorised traffic reduces number of local trips and active travel share

Paulo Anciaes and Peter Jones

10:15 – 10:40

An integrated Ordered Logit and latent variable model for crash injury severity

Nicola Ortelli, Silvia Varotto, Michel Bierlaire and Matthieu de Lapparent

9:00 – 10:40

Micro-mobility

Room 208 Chair: Tomás Rossetti

9:00 – 9:25

Faster, greener, scooter? An assessment of shared e-scooter usage based on real-world driving data

Konstantin Krauss, Till Gnann, Tobias Burgert and Kay Axhausen

9:25 – 9:50

Safety impacts of rising urban micromobility: Statistical analysis of e-scooter use and risky rider behavior in Ingolstadt, Germany

Pascal Brunner, Vikram Singh, Florian Denk, Martin Margreiter, Werner Huber and Klaus Bogenberger

9:50 – 10:15

Neighbourhood effects on the demand of e-scooter services - A comparison between spatial regression models and convolutional neural network (CNN)

Shiva Habibi, Kateryna Melnyk, Joakim Rosell and Ruiting Qin

10:15 – 10:40

How do attitudes and impacts of Covid-19 affect demand for microtransit?

Tomas Rossetti, Melissa Ruhl, Andrea Broaddus and Ricardo Daziano



16th International Conference on Travel Behaviour Research

December 11 - 15, 2022 | Santiago, Chile



Thursday 15

10:40 – 11:10 **Coffee Break**
Central Plaza

11:10 – 12:40 **Closing Plenary**
Fresno Hall

18:30 – 22:00 **Closing Dinner**
Parque Araucano
Presidente Riesco 5330, Las Condes



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Two Wi-Fi networks are available at the Conference venue:

- Eduroam: If your home institution is part of the EDUcation ROAMing service, you can connect directly with your personal credentials
- Venue network: name: UC_CentroExtension
 password: 1467.,extension

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