

Time	Monday 23rd of July
	Opening Plenary Room: Grand Ballroom
08:30 – 08:35	Welcome from the Pontificia Universidad Católica de Chile Ignacio Sánchez <i>Pontificia Universidad Católica de Chile Rector</i>
08:35 – 08:40	Welcome from the Pontificia Universidad Católica de Chile School of Engineering Juan Carlos de La Llera <i>School of Engineering Dean</i>
08:40 – 09:10	Urban Public Transport Policy in Chile Pedro Pablo Errázuriz <i>Minister of Transports and Telecommunications of Chile</i>
09:10 – 09:45	Challenges of improving and expanding the Metro in Santiago, Chile Roberto Bianchi <i>Chief Executive Officer Metro de Santiago</i>
09:45 – 10:20	Transantiago, a radical transformation: yesterday, today and tomorrow Patricio Pérez <i>General Coordinator of Transantiago</i>
10:20 – 10:30	Brief description of the activities in CASPT12 Juan Carlos Muñoz <i>Chair of CASPT12</i>

10:30 - 11:00	Coffee Break
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11:00 - 12:30	Sessions 1
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	1.a: Managing Railway Disruptions Chair: Juan Enrique Coeymans
11:00 - 11:30	Adjusting a railway timetable in case of large disruptions Authors: Ilse Louwerse, Dennis Huisman
11:30 - 12:00	Passenger oriented disruption management in railways by adapting timetables and rolling stock schedules Authors: Lucas P. Veelenturf, Lars K. Nielsen, Leo Kroon, Gábor Maróti
12:00 - 12:30	

	1.b: Sustainability and Environmental Impacts Chair: Miguel Figliozzi
11:00 - 11:30	Some issues on sustainable public transport services for local cities in Japan - Case of Toyota City Authors: Ryosuke Ando, Motohiro Yamazaki
11:30 - 12:00	An empirical study of particulate matter exposure for passengers waiting at bus stop shelters in Portland, Oregon, USA Authors: Adam Moore, Miguel Figliozzi, Christopher M. Monsere
12:00 - 12:30	A lifecycle analysis of GHG emissions for bus transit technologies along a busy urban corridor Authors: Sabrina Chan, Ahsan Alam, Luis Miranda-Moreno, Marianne Hatzopoulou

	1.c: Travel Estimation Using ITS Technologies Chair: Rabi G. Mishalani
11:00 - 11:30	Using automatically collected data to measure passenger experience: applications to London Underground Authors: Elizabeth C. Paul, Samuel W. Hickey, Nigel H. M. Wilson, John P. Attanucci
11:30 - 12:00	Transit route-level passenger origin destination flow estimation: empirical evaluation of a heuristic expectation maximization methodology Authors: Yuxiong Ji, Rabi G. Mishalani, Mark R. McCord
12:00 - 12:30	Eliciting the time/space/purpose structure of public transport demand from smartcard data Authors: Flavio Devillaine, Marcela Munizaga, Martin Trépanier

	1.d: Infrastructure Management Chair: Antonio Gschwender
11:30 -	Managing underutilized bus lanes at roadway bottlenecks

12:00	Authors: S. Ilgin Guler, Michael J. Cassidy
12:00 - 12:30	Strategies for mitigating impacts of near-side bus stops on car Authors: Weihua Gu, Michael J. Cassidy, Vikash V. Gayah, Yanfeng Ouyang

12:30 - 14:00	Lunch
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14:00 - 15:30	Sessions 2
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	2.a: Train Scheduling Chair: Raymond S.K. Kwan
14:00 - 14:30	Vehicle rotation planning for intercity railways Authors: Ralf Borndörfer, Markus Reuther, Thomas Schlechte, Steffen Weider
14:30 - 15:00	A two-phase approach for real-world train unit scheduling Authors: Zhiyuan Lin, Raymond S.K. Kwan
15:00 - 15:30	Scheduling trains to maximise railway junction and station capacity Authors: John Armstrong, John Preston, Chris Potts, Dimitris Paraskevopoulos, Tolga Bektas

	2.b: Travel Behaviour Chair: Mark Hickman
14:00 - 14:30	Using smart card data to assess the impacts of weather on public transport user behavior Authors: Martin Trépanier, Bruno Agard, Catherine Morency, Élodie Descoimps, Jean-Sébastien Marcotte
14:30 - 15:00	Trip purpose inference using automated fare collection data Authors: Sang Gu Lee, Mark Hickman
15:00 - 15:30	Choosing public transport – some behavioural challenges Authors: David A. Hensher, Zheng Li, Waiyan Leong, John M Rose

	2.c: ITS Applications for Trip Inference Chair: Rosário Macário
14:00 - 14:30	Comparison of the origin-destination matrix based upon log files accessed by route searchers with that of Transportation Census Data Authors: Shouta Kawakami, Shintaro Terabe, Hisao Uchiyama
14:30 - 15:00	Spider maps for passenger information and trip planning enhancement in public transportation networks Authors: Joao Mourinho, Teresa Galvao, Joao Falcao e Cunha, Paul Treadwell, Rosemary Reed
15:00 - 15:30	Obtaining public transport level-of-service measures using in-vehicle GPS data and freely available GIS web-based tools Authors: Julián Arellana, Juan de Dios Ortúzar, Luis Ignacio Rizzi, Felipe Zúñiga

	2.d: Infrastructure Management and Safety Chair: Luis Antonio Lindau
14:00 - 14:30	Performance evaluation of railway platform design using microscopic simulation Authors: Fredrik Johansson, Anders Peterson, Andreas Tapani
14:30 - 15:00	Traffic safety in surface public transport systems Authors: Nicolae Duduta, Claudia Adriaola, Dario Hidalgo, Luis Antonio Lindau, Rebecca Jaffe
15:00 - 15:30	Prototyping a scalable agent-based modelling framework for large-scale simulation of crowd & subway network dynamics Authors: Siva Srikukenthiran, Amer Shalaby

15:30 - 16:00	Coffee Break
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16:00 - 17:30	Sessions 3
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3.a: Fleet Logistics and Costs Chair: Pitu Mirchandani	
16:00 - 16:30	Bus fleet type and age replacement optimization: A case study utilizing King County Metro fleet data Authors: Wei Feng, Miguel Figliozzi
16:30 - 17:00	Scheduling and location issues in transforming service fleet vehicles to electric vehicles Authors: Pitu Mirchandani, Oli B. G. Madsen, Jonathan Adler
17:00 - 17:30	The trade-off between taxi time and fuel consumption in airport ground movement Authors: Stefan Ravizza, Jun Chen, Jason A. D. Atkin, Edmund K. Burke, Paul Stewart

3.b: Pricing and Subsidies Chair: Leonardo J. Basso	
16:00 - 16:30	Aggregate price-demand elasticities estimation for a fare-integrated public transport system Authors: Louis de Grange, Felipe González, Juan Carlos Muñoz, Rodrigo Troncoso
16:30 - 17:00	Multimodal pricing and optimal design of public transport services: the interplay between traffic congestion and bus crowding Authors: Alejandro Tirachini, David A. Hensher, John M. Rose
17:00 - 17:30	Efficiency and complementarity of transit subsidies and other urban transport policies Authors: Leonardo J. Basso, Hugo E. Silva

3.c: Assignment Chair: Michael Florian	
16:00 - 16:30	Logit-based transit assignment considering capacity constraint using a diagonalized gradient projection method Authors: Hyunsoo Noh, Mark Hickman
16:30 - 17:00	Enlarging the choices in the strategy based transit assignment Authors: Michael Florian, Isabelle Constantin
17:00 - 17:30	Bush Based Algorithms for a Transit Assignment Model Authors: Carlos F. Melo, José Enrique Fernández, Joaquín De Cea

3.d: ITS Applications and Case Studies Chair: Sebastián Raveau	
16:00 - 16:30	Quantifying transit trip reliability with automatically collected GPS data smartphones Authors: André Carrel, Peter Lau, Joan L Walker
16:30 - 17:00	Motorcycle ownership and use: The case of Latin America Authors: Nicolas Estupiñan, Manuel Santana, Anabella Palacios, Daniel A. Rodríguez
17:00 - 17:30	

Time	Wednesday 25th of July
	Keynote Presentations I
08:30 - 09:30	Urban Transport: A little less conversation, a little more action David A. Hensher <i>Institute of Transport and Logistics Studies, The University of Sydney, Australia</i>
09:30 - 10:30	On Joint Rail and Property Development: Opportunities and Potential Pitfalls Hong K. Lo <i>Hong Kong University of Science and Technology, China</i>
10:30 - 11:00	Coffee Break

11:00 - 12:30	Sessions 4
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4.a: Railway Planning and Operations Chair: Avi Ceder	
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11:00 - 11:30	Applied analysis for improving rail-network operations Authors: Avi Ceder, Stephan Hassold
11:30 - 12:00	Rescheduling models for network-wide railway traffic management Authors: Pavle Kecman, Francesco Corman, Andrea D'Ariano, Rob M.P. Goverde
12:00 - 12:30	Mixed-integer linear-programming formulations of a railway rolling stock circulation problem Authors: Giovanni Luca Giacco, Andrea D'Ariano, Dario Pacciarelli

4.b: Hyperpath Passenger Assignment Chair: Fumitaka Kurauchi	
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11:00 - 11:30	Empirical analysis on passengers' hyperpath construction by smart card data Authors: Fumitaka Kurauchi, Jan-Dirk Schmöcker, Hiroshi Shimamoto, Seham M. Hassan
11:30 - 12:00	Parallel implementation of the hyperpath-based railway passenger assignment: An application to Tokyo's Metropolitan rail network Authors: Hideki Yaginuma, Daisuke Fukuda, Jan-Dirk Schmöcker
12:00 - 12:30	Strategy choice in transit networks Authors: Achille Fonzone, Jan-Dirk Schmöcker, Fumitaka Kurauchi, Seham M. Hassan

4.c: Signal Priority I Chair: Felipe Delgado	
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11:00 - 11:30	Evaluation of the traffic control system of open Bus Rapid Transit corridors: An application to the city of Guangzhou Authors: L. Miguel Martinez, Dongchen Dai, José M. Viegas
11:30 - 12:00	An evaluation of the impacts of an adaptive coordinated traffic signal system on transit performance: a case study on Powell Boulevard (Portland, Oregon) Authors: Courtney Slavin, Wei Feng, Miguel Figliozzi
12:00 - 12:30	An integrated real time transit signal priority control for high frequency transit services Authors: Felipe Delgado, Juan Carlos Muñoz, Ricardo Giesen

4.d: Case Studies Chair: Darío Hidalgo	
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11:00 - 11:30	Real-time information provision for public transport systems in the South African Context Authors: Marianne Vanderschuren, Yudish Awotar
11:30 - 12:00	The costs of inclusion: Incorporating existing bus and paratransit operators into Mexico City's BRT Authors: Onésimo Flores, Chris Zegras
12:00 - 12:30	The promise and challenges of integrating public transportation in Bogotá, Colombia Authors: Gwen Kash, Darío Hidalgo

12:30 - 14:00	Lunch
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14:00 - 15:30	Sessions 5
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5.a: Delay and Transfers Management Chair: C. Angelo Guevara	
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14:00 - 14:30	Simulation analysis for estimating train knock-on delay under high-frequency intervals Authors: Naohiko Hibino, Keiji Kariyazaki, Yoshihisa Yamashita, Shigeru Morichi
14:30 - 15:00	Fast heuristics for delay management with passenger rerouting Authors: Twan Dollevoet, Dennis Huisman
15:00 - 15:30	Tactical design of high-demand bus transfers Authors: Gonzalo Donoso, C. Angelo Guevara

5.b: Demand Modelling I Chair: Martin Trépanier	
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14:00 -	Dynamic forecast model of time dependent passenger flows for disruption management
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14:30	Authors: Evelien Van Der Hurk, Leo G. Kroon, Gábor Maróti, Peter Vervest
14:30 - 15:00	Hierarchical intervening opportunities model for public transit trip distribution Authors: Mohsen Nazem, Martin Trépanier, Catherine Morency
15:00 - 15:30	Modal shift forecasting model for transit service planning: survey instrument design Authors: Ahmed O. Osman, Khandker M. Nurul Habib, Amer Shalaby

5.c: Signal Priority II Chair: Niels Van Oort	
14:00 - 14:30	Development of a transit signal priority algorithm with consideration of simultaneous conflicting priority requests and bus arrival time variability Authors: Mohammad Ghanim, Ghassan Abu-Lebdeh
14:30 - 15:00	Analysis of the impacts of transit signal priority on bus bunching and performance Authors: Eric Albright, Miguel Figliozzi
15:00 - 15:30	

14:00 - 15:30	5.d: SIBRT Members Session
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15:30 - 16:00	Coffee Break
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16:00 - 17:30	Sessions 6
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6.a: Rail Based Property Development Chair: William H.K. Lam	
16:00 - 16:30	Estimating the house price impact of proximity to a commuter train station: The case of the Montreal South Shore, Canada, 1992-2009 Authors: Jean Dubé, Marius Thériault, François Des Rosiers
16:30 - 17:00	Modeling joint railway and property development Authors: Xiaosu Ma, Hong K. Lo
17:00 - 17:30	Modeling the effects of integrated rail and property development on the design of rail line services in a linear monocentric city Authors: Zhi-Chun Li, William H.K. Lam, S.C. Wong, Keechoo Choie

6.b: Demand Modelling II Chair: Nigel H. M. Wilson	
16:00 - 16:30	Route choice modelling on metro networks Authors: Sebastián Raveau, Zhan Guo, Juan Carlos Muñoz, Nigel H. M. Wilson
16:30 - 17:00	Departure-time choice of urban rail passengers facing unreliable service: Evidence from Tokyo Authors: Hironori Kato, Yuichiro Kaneko, Yoshihiko Soyama
17:00 - 17:30	Latent class model to test the preferences heterogeneity in the perceived information by public transport users Authors: Pietro Zito, Giuseppe Salvo, Salvatore Amoroso

6.c: Ride Based Travelling Chair: Stefan Voss	
16:00 - 16:30	User rationality and optimal park-and-ride location under potential demand maximization Authors: Jose Holguin-Veras, Wilfredo Yushimito, Felipe Aros-Vera, John Reilly
16:30 - 17:00	Research, practice, and future directions of dynamic ridesharing Authors: Masabumi Furuhashi, Fernando Ordóñez, Maged Dessouky, Sven Koenig, Xiaoqing Wang
17:00 - 17:30	Evaluating the performance of dial-a-ride services using simulation Authors: Carl H. Häll, Jan T. Lundgren, Stefan Voss

16:00 - 17:30	6.d: SIBRT Members Session
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Time	Thursday 26th of July
	Keynote Presentations II
08:30 - 09:30	Traffic congestion in networks, and alleviating it with public transportation and pricing Carlos Daganzo <i>University of California, Berkeley, USA</i>
09:30 - 10:30	Sustainable Transportation: Just a question of mode technology election? Paulo Custodio <i>Private consultant, Brazil</i>
10:30 - 11:00	Coffee Break

11:00 - 12:30	Sessions 7
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	7.a: Crew Scheduling Chair: Fernando Ordóñez
11:00 - 11:30	Duty scheduling templates Authors: Ralf Borndorfer, Andreas Langenhan, Andreas Löbel, Christof Schulz, Steffen Weider
11:30 - 12:00	A heuristic approach for the integrated vehicle and crew scheduling problem Authors: Gustavo Peixoto Silva, Claudio Barbieri da Cunha
12:00 - 12:30	Pairing optimization for hierarchical airline crews Authors: Michael Römer, Taïeb Mellouli

	7.b: Assignment and Network Design Chair: Hong K. Lo
11:00 - 11:30	A fixed point route choice model for route correlation Authors: Louis de Grange, Sebastián Raveau, Felipe González
11:30 - 12:00	A hybrid method for bus-network design with high seasonal demand variation Authors: S. M. Mahdi Amiripour, Avi Ceder, Afshin Shariat Mohaymany
12:00 - 12:30	Ferry network design under demand uncertainty Authors: Hong K. Lo, Kun An, Wei-hua Lin

	7.c: Network Connectivity and Monitoring Chair: Marcela A. Munizaga
11:00 - 11:30	Monitoring Transantiago through enriched load profiles obtained from GPS and smartcard data Authors: Antonio Gschwender, Richard Ibarra, Marcela A. Munizaga, Carolina Palma, Mauricio Zúñiga
11:30 - 12:00	Identifying effective guaranteed connections in a multimodal public transport network Authors: Daniel Sparing, Rob M.P. Goverde
12:00 - 12:30	Assessing public transport systems connectivity based on google transit data Authors: Yuval Hadas

	7.d: Technological Aspects Chair: Joachim Daduna
11:00 - 11:30	A review of technological improvements in BRT and BHLS Authors: Darío Hidalgo, Juan Carlos Muñoz
11:30 - 12:00	Modeling and evaluation of characteristics for on-street Rapid Transit systems Authors: Jonas Lohmann Elkjaer Andersen, Alex Landex
12:00 - 12:30	E-ticketing in public transit - models, applications, and implementation Authors: Joachim Daduna, Gabriele Schneidereit, Stefan Voss

12:30 - 14:00	Lunch
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14:00 - 15:30	Sessions 8
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	8.a: Optimization Chair: Charles Fleurent
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14:00 - 14:30	A new proposal for constructing lines of work in a rostering problem Authors: Fabio G. A. Mello, Edson Senne
14:30 - 15:00	ATP: A software tool for run-time analysis and optimization in public transit Authors: Charles Fleurent
15:00 - 15:30	Rapid branching Authors: Ralf Borndörfer, Andreas Löbel, Markus Reuther, Thomas Schlechte, Steffen Weider

	8.b: Network Design I Chair: Ricardo Giesen
14:00 - 14:30	Optimizing the number and location of time point stops Authors: Oded Cats, Ferran Mach Rufi, Haris N. Koutsopoulos
14:30 - 15:00	Incremental bus service design: Combining limited-stop and local bus services Authors: Viroth Chiraphadhanakul, Cynthia Barnhart
15:00 - 15:30	Express services for a bus corridor: A case study and some analytical insights Authors: Homero Larrain, Juan Carlos Muñoz, Ricardo Giesen

	8.c: Reliability Chair: Juan Carlos Herrera
14:00 - 14:30	Service reliability improvement by enhanced network and timetable planning Authors: Niels Van Oort
14:30 - 15:00	Measurement and evaluation of transit travel time reliability Authors: Kari E. Watkins, Mark C. Wheldon, G. Scott Rutherford
15:00 - 15:30	Quantifying benefits of enhanced service reliability in public transport Authors: Niels Van Oort

14:00 - 15:30	8.d: SIBRT Members Session
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15:30 - 16:00	Coffee Break
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16:00 - 17:30	Sessions 9
	9.a: Timetabling Chair: Antonio Mauttone
16:00 - 16:30	Creating synchronized bus timetables with multiple vehicle types using multi-objective approach Authors: Stephan Hassold, Avi Ceder
16:30 - 17:00	Formulations and metaheuristic approach to frequency optimization in public transportation systems Authors: Héctor Martínez, Antonio Mauttone, María E. Urquhart
17:00 - 17:30	Integrated timetabling and vehicle scheduling as an integer problem: the case of a feeder service from the Transantiago transit system Authors: Cristián E. Cortés, Jaime Miranda, Diego Muñoz, Pablo A. Rey

	9.b: Network design II Chair: Homero Larrain
16:00 - 16:30	Feeder bus network design problem: a new solving procedure and real size applications Authors: Francesco Ciaffi, Ernesto Cipriani, Stefano Gori, Marco Petrelli
16:30 - 17:00	Optimization of a feeder-bus route design by using a multi-objective programming approach Authors: Jen-Jia Lin, Huei-In Wong
17:00 - 17:30	Integrating network design and line planning in rapid transit systems Authors: Francisco López, Esteve Codina, Angel Marín

	9.c: Control Strategies Chair: Juan Argote
16:00 - 16:30	Comparative analysis of various bus control strategies: A case study of the UC Berkeley Bear Transit System Authors: Juan Argote, Yiguang Xuan, Vikash V. Gayah
16:30 - 17:00	Predictive energy-efficient running time control for metro lines Authors: Anne Binder, Thomas Albrecht

17:00 - 17:30	Micro-simulation analysis of a BRT system with combined holding and priority control strategies Authors: Alberto D. Reuters Jr., Luiz Alberto Koehler, Eduardo Camponogara, Werner Kraus Jr.
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16:00 - 17:30	9.d: SIBRT Members Session
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Time	Friday 27th of July
	Workshop Ballroom I
08:30 - 10:30	Exhibitors presentations Caliper, Giro, Google, INRO, IVU, Nokia, PTV
10:30 - 11:00	Coffee Break
11:00 - 13:00	Roundtable between Operators and Exhibitors