INSTR2015 SYMPOSIUM PROGRAM

1st Aug. (Sat)

17:00- Welcome cocktail at Hotel Nikko Nara 4F Hagoromo Room

2nd Aug. (Sun)

	Room 1	Room 2	Room 3
9:20-9:35	Opening ceremony		
9:35-10:35	Keynote Speech *Kotaro Kato*		
10:35-10:55	Coffee Break		
10:55-12:35 Session I	Resilience *Takeshi Nagae*	Travel behaviour under uncertainty *Yasuo Asakura*	Network performance 1 *Alan Nicholson*
12:35-14:05	Lunch (Bento BOX) & Poster session (@ 2F Reception Hall)		
14:05-15:45 Session II	Disaster 1 *Hiroshi Wakabayashi*	Route and departure time choice *Daisuke Fukuda*	Network performance 2 *Takashi Oguchi*
15:45-16:05	Coffee Break		
16:05-17:45 Session III	Disaster 2 *Michael Taylor*	Valuation of reliability *Shoichiro Nakayama*	Traffic network Management *Toshio Yoshii*
18:30- Banquet at Nara National Museum B1			

3rd Aug. (Mon)

	Room 1	Room 2	Room 3
9:00-10:00	Keynote Speech *Michael G. H. Bell*		
10:00-10:20	Coffee Break		
10:20-12:00 Session IV	Network reliability modelling 1 *Seungjae Lee*	Management of public transportation *Hong K Lo*	Assignment *Hai Yang*
12:00-14:00	Conference Lunch at Yume-Kaze Plaza		
14:00-15:15 Session V	Network reliability modelling 2 *David Levinson*	Reliability of public transportation *William H K Lam*	Network design *Agachai Sumalee*
15:15-15:45	Closing Ceremony		

Programs:

Room 1: (Noh Theatre Hall)

9:20-9:35, 2nd Aug.

Opening ceremony

9:35-10:35, 2nd Aug.

Keynote Speech

TBA *Kotaro Kato*

10:55-12:35, 2nd Aug.

Session I: Resilience Chairperson: Takashi Nagae (Tohoku University)

Resilience index in vulnerable transport infrastructures *Seungjae Lee, Jooyoung Kim and Shinhae Lee*

A methodology for road traffic resilience analysis and review of related concepts

Simeon Calvert and Maaike Snelder

A GIS method for measuring road system resilience to extreme events

Amirhassan Kermanshah and Sybil Derrible

The resilience value of public transport development plans *Oded Cats*

14:05-15:45, 2nd Aug.

Session II: Disaster 1 Chairperson: Hiroshi Wakabayashi (Meijo University)

Cascading failure in a road network depending on external systems

Kashin Sugishita, Takahiko Kusakabe and Yasuo Asakura

Evaluation of tsunami evacuation planning considering vehicle usage and starting time of evacuation

Bunpei Nagao, Hiroshi Shimamoto, Toshiyuki Nakamura, Nobuhiro Uno, Jan-Dirk Schmöcker and Hiroki Yamazaki

Location-routing problem for disaster relief operations

Sattrawut Ponboon, Eiichi Taniguchi and Ali Gul Qureshi

Supply chain design for the emergency supply of blood in disasters

Behnam Fahimnia, Ali Ghavamifar, Armin Jabbarzadeh and Michael Bell

16:05-17:45, 2nd Aug.

Session III: Disaster 2 Chairperson: Michael Taylor (University of South Australia)

Evaluating disaster network resilience with an agent-based evacuation model

Joel S.E. Teo, Jan-Dirk Schmöcker, Florin Leon, Yeun-Touh Li, Hiroki Yamazaki, Ali Gul Qureshi, Gabriela Atanasiu and Eiichi Taniguchi

Monitoring traffic congestion using probe data at Great East Japan Earthquake in 2011 and design of efficient evacuation schemes *Masao Kuwahara, Yusuke Hara and Takeshi Ohata*

Anti-seismic reinforcement strategy for an urban road network: a cross-entropy approach

Nobuo Takei and Takeshi Nagae

Transportation network protection based on path directness and travel demand weighted connectivity reliability

James C Chu and Shih-Chi Chen

9:00-10:00, 3rd Aug.

Keynote Speech

Managing uncertainty in supply chains *Michael G. H. Bell*

10:20-12:00, 3rd Aug.

Session IV: Network reliability modelling 1 Chairperson: Seungjae Lee (University of Seoul)

Tightness of the system-wide travel time reliability assessment under partial information

Xiangfeng Ji, Xuegang Ban, Jian Zhang and Bin Ran

Simulation-based pricing optimization for improving network-wide travel time reliability

Xiqun Michael Chen, Lei Zhang, Xiang He and Chenfeng Xiong

Robust cordon toll pricing scheme with endogenous residential distribution under uncertainty in travel demand

Yajuan Chen, Zhichun Li and William H.K. Lam

Simulation-Based Optimal Travel Information Provision Strategies: An Agent-Based Approach under Uncertainty

Chenfeng Xiong, Xiqun Chen, Zheng Zhu and Lei Zhang

14:00-15:15, 3rd Aug.

Session V: Network reliability modelling 2 Chairperson: David Levinson (University of Minnesota)

A data-driven assessment of travel time reliability on the origin destination level

Christian de Boer, Maaike Snelder, Rob van Nes and Bart van Arem

Improving the efficiency and reliability of demand estimation from traffic counts using information on network observability *Francesco Viti, Guido Cantelmo, Marco Rinaldi and Francesco Corman*

Modelling Issues in Incorporating Link Travel Time Correlations in the Analysis of Corridor Trip Time Reliability

Alan Nicholson and David Watling

15:15-15:45, 3rd Aug.

Closing ceremony

Room 2: (Reception Hall 1)

10:55-12:35, 2nd Aug.

Session I: Travel behavior under uncertainty Chairperson: Yasuo Asakura (Tokyo Institute of Technology)

Subjective perception towards uncertainty on weather conditions and its impact on out-of-home leisure activity participation *Chengxi Liu, Yusak O. Susilo and Nursitihazlin Ahmad Termida*

Modeling and simulation of risk-taking driving behavior at signalized intersections based on a Fuzzy Cellular Automata (FCA) model *Chen Chai, Yiik Diew Wong, Meng Joo Er and Evan Tat Meng Gwee*

Memory, expectation formation and scheduling choices *Stefanie Peer, Paul Koster and Thijs Dekker*

Commuting for meetings *Mogens Fosgerau, Leonid Engelson and Joel Franklin*

14:05-15:45, 2nd Aug.

Session II: Route and departure time choice Chairperson: Daisuke Fukuda (Tokyo Institute of Technology)

A time-dependent alpha-reliable mean-excess path finding model in stochastic networks

Kriangsak Vanitchakornpong, Zhong Zhou, Chen Anthony, Nakorn Indra-Payoong and Sarawut Jansuwan

Impact study of various information about accident risk on driver's route choice behavior

Satoshi Hyodo, Shinya Kurauchi and Toshio Yoshii

A link-based mean-excess traffic equilibrium model under uncertainty

Xiangdong Xu, Chen Anthony, Lin Cheng and Chao Yang

Incorporating observed travel time reliability into a commuters' departure time choice model

Liang Tang, Sepehr Ghader, Carlos Carrion, Sabyasachee Mishra, Chenfeng Xiong and Lei Zhang

16:05-17:45, 2nd Aug.

Session III: Valuation of reliability Chairperson: Shoichiro Nakayama (Kanazawa University)

Methodology to quantify in economic terms the vulnerability of an interurban road network and prioritize investments for climate change adaptation *David Paez, Julian Gomez, Juan Pablo Bocarejo and Mauricio Sanchez*

A study on benefit estimation considering both value of travel time and of travel time reliability in road networks *Teppei Kato and Kenetsu Uchida*

Application of an integrated approach for valuing travel time reliability benefit in an urban expressway

Ryo Nakata, Mitsuya Nagasawa, Masakazu Nakanishi and Daisuke Fukuda

Evaluation method of travel speed reliability using Wi-Fi packet receiver

Tomoyuki Adachi, Junji Nishida and Takumi Nishimura

10:20-12:00, 3rd Aug.

Session IV: Management of public transportation

Chairperson: Hong K Lo (Hong Kong University of Science and Technology)

A study of holding strategies for bus service reliability and their impact to surrounding traffic

Shuai Li and Andy Chow

An experimental analysis of reliability, resilience and robustness in closed loop railway traffic control

Francesco Corman and Egidio Quaglietta

Bus Bunching Along a Corridor Served by Two Lines

Jan-Dirk Schmöcker, Wenzhe Sun, Ronghui Liu and Achille Fonzone

Robust dynamic transit network design under demand uncertainty

Kun An and Hong Lo

14:00-15:15, 3rd Aug.

Session V: Reliability of public transportation

Chairperson: William H K Lam (Hong Kong Polytechnic University)

Exposing the role of exposure in public transport network vulnerability analysis

Oded Cats, Niels van Oort and Menno Yap

Beyond a complete failure: the impact of partial capacity reductions on public transport network vulnerability

Erik Jenelius and Oded Cats

The estimation of minimum connection time between runway and apron to enhance airline schedule reliability and airfield operation performance at Songshang International Airport *Suiling Li*

Room 3: (Conference Room 1)

10:55-12:35, 2nd Aug.

Session I: Network performance 1 — Chairperson: Alan Nicholson (University of Canterbury)

Availability and reliability of a signalised lane — *Krzysztof Ostrowski and Marian Tracz*

Effect of speed limits in degradable transport networks — *Chen-Yang Yan, Rui Jiang, Zi-You Gao and Hu Shao*

On time-aggregate intervals for reliable freeway capacity analysis — *Huizhao Tu, Lijun Sun and Hao Li*

Modelling demand and supply side variability for a road link using Bluetooth and loop detector data — *Fiona Crawford, David Watling, Richard Connors*

14:05-15:45, 2nd Aug.

Session II: Network performance 2 — Chairperson: Takashi Oguchi (The University of Tokyo)

Accessibility and the ring of unreliability — *Mengying Cui and David Levinson*

Quantifying the robustness of metro networks — *Xiangrong Wang, Yakup Koc, Rob Kooij, Sybil Derrible and Nasir Ahmad*

Moment-ratio diagram and travel time reliability: empirical study on urban and periurban links — *Raphael Delhome, Romain Billot and Nour-Eddin El Faouzi*

Assessing corridor-level travel time reliability on urban freeways — *Jing Dong*

16:05-17:45, 2nd Aug.

Session III: Traffic network management — Chairperson: Toshio Yoshii (Ehime University)

Analysis of gridlock traffic flow on a single grid network — *Daisuke Oshima and Takashi Oguchi*

Evaluation of a hard shoulder running scheme applied on a Japanese motorway — *Jian Xing, Shoichi Hirai, Hiroyuki Konda and Hideo Yonekawa*

Controling lane traffic flow for managing uncertainty in traffic breakdown — *Yasuhiro Shiomi*

Network-wide on-line travel time estimation with inconsistent data from multiple sensor systems under network uncertainty — *Hu Shao, William H K Lam, Agachai Sumalee and Anthony Chen*

10:20-12:00, 3rd Aug.

Session IV: Assignment Chairperson: Hai Yang (Hong Kong University of Science and Technology)

Stochastic properties and estimation problem of large transportation networks

Shoichiro Nakayama, David Watling and Richard Connors

Validation of proportionality assumptions in traffic assignment accounting for day-to-day variability

Emily Moylan, Vinayak Dixit and Lauren Gardner

A primal-dual perspective of elastic-demand stochastic traffic assignment problems *Yanjie Wan and Chi Xie*

Reliability-based stochastic transit assignment: approach–based formulation, solution method, and paradox

W.Y. Szeto and Y. Jiang

14:00-15:15, 3rd Aug.

Session V: Network design Chairperson: Agachai Sumalee (King Mongkut's University of Technology)

Capacitated public bike station location design with demand uncertainty *Chin Sum Shui and Wy Szeto*

Substitute Bus Service Network Design after a Metro Failure *Shuyang Zhang, Hong Lo and Kun An*

Robustness of multi-level public transport networks: a methodology to evaluate and quantify robustness from a passenger perspective *Menno Yap, Niels van Oort, Rob van Nes and Bart van Arem*