4th Aug., 2018		Nanka Memorial Hall		
9:00 - 9:10		Opening address		
9:10 - 9:55	Keynote 1	Modeling and Analysis of Ride-Sourcing Markets / *Yafeng Yin*, *University of Michigan*		
9:55 - 10:30		Aidai Muse		
		Coffee break		
		Room 1	Room 2	Room 3
10:30 - 12:10	Session I	Oral session 1: Incident and accident (Chair: Alan Nicholson)	Oral session 2: Traffic flow (Chair: Hwasoo Yeo)	Special session 1: Wide-area disaster management (Chair: Takamasa Iryo)
		(4) Incident Alert by an Anomaly Indicator of Probe Trajectories *Masanori Yoshida, Shogo Umeda, Yosuke Kawasaki and Masao Kuwahara* (9) Tensor robust principal component analysis with continuum modeling of traffic flow: Application to abnormal traffic pattern extraction in large transportation networks *Stanislav Lykov and Yasuo Asakura* (22) Traffic signal optimisation in disrupted road networks, including drivers' routing *Dana Abudayyeh, Dong Ngoduy and Alan Nicholson* (33) An analysis of risk factors for rear-ender accident on urban expressway considering accident severity *Satoshi Hyodo and Tomoyuki Todoroki* (67) Effect of Road Pavement Ages on Traffic Accident Risks *Takahiro Tsubota, Celso Fernando, Toshio Yoshii and Hirotoshi Shirayanagi*	(3) Traffic state estimation using small imaging satellites and connected vehicles *Toru Seo and Takahiko Kusakabe* (27) Impact of VSL location on capacity drop: A case of sag and tunnel bottlenecks *Irene Martinez and Wen-Long Jin* (51) Analysis on sag bottleneck phenomena based on multiclass traffic state estimation *Moto Takashima and Yasuhiro Shiomi* (57) A New Cell Transmission Model with Priority Vehicles and Special Lanes *Wen-Long Jin and Kentaro Wada*	(34) Effect of delay in information propagation on traffic congestion *Masayuki Kuchii, Takamasa Iryo, Masaya Furuta and Masao Kuwahara* (52) On the implementation of high performance computing extension for day-to-day traffic assignment *Wasuwat Petprakob, Lalith Wijerathne, Takamasa Iryo, Junji Urata and Kazuki Fukuda* (54) Scalable HPC enhanced agent based system for simulating mixed mode evacuation of large urban areas *Lalith Maddegedara, Wasuwat Petprakob, Leonel Aguilar and Muneo Hori* (65) Fast calculation of dynamic traffic assignment by parallelised network loading algorithm *Takamasa Iryo, Junji Urata, Kazuki Fukuda, Genaro Jr Peque, Wijerathne Lalith and Wasuwat Petprakob* (68) Development of a Traffic Demand Simulator under a Disaster Restoration Period *Junji Urata, Takamasa Iryo and Riki Kawase*
12:10 - 13:30		Lunch and Coffee break		
13:30 - 14:50	Session II	Oral session 3: Pedestrian & mixed traffic (Chair: Majid Sarvi)	Oral session 4: Microscopic simulation (Chair: Jaume Barceló)	Oral session 5: Prediction 1 (Chair: Masao Kuwahara)
		(20) Dynamic data collection of following and merging behavior in mixed traffic *Anuj Budhkar, Akhilesh Kumar Maurya and Avijit Maji* (35) Design of Variable Guidance for Pedestrian Evacuation *Yi-Ying Lin* (58) Modified Generalized Definitions for the Traffic Flow Characteristics under Heterogeneous, No-Lane Disciplined Traffic Streams *Suvin P. Venthuruthiyil and Mallikarjuna Chunchu* (62) Simulating "strategic" decisions for pedestrians' evacuation *Milad Haghani and Majid Sarvi*	(14) Investigating the performance of SPSA in Simulation-Optimization approaches to transportation problems *Xavier Ros-Roca, Lídia Montero, Arne Schneck and Jaume Barceló* (45) A modified particle swarm optimization algorithm to distribute lane changes in a freeway weaving segment *David Sulejic, Nasser Sabar and Edward Chung* (46) Simulating Interactions between Pedestrians, Segway Riders and Cyclists in Shared Spaces using Social Force Model *Charitha Dias, Hiroaki Nishiuchi, Satoshi Hyoudou and Tomoyuki Todoroki* (85) Calibration of Gipps' Car-Following Model for Trucks and its Impacts on Fuel Consumption *Johana Cattin, Ludovic Leclercq, Florian Pereyron and Nour-Eddin El Faouzi*	(49) Recurrent Neural Network Based Driving Cycle Development for Light Duty Vehicles in Beijing *Duoguan Qiu, Yuan Li and Dapeng Qiao* (69) A Long Short-Term Memory Neural Network Approach for Traffic Density Estimation with Sensor-equipped Probe Vehicles *Daisik Nam, Riju Lavanya, Inchul Yang, Woo Hoon Jeon and R Jayakrishnan* (81) Assessing spatiotemporal correlations from data for short-term traffic prediction using multi-task learning *Rafael Mena-Yedra, Jordi Casas and Ricard Gavaldà*
14:50 - 15:10		Coffee Break		
15:10 - 16:30	Session III	Oral session 6: Public transport and transport policy (Chair: Fumitaka Kurauchi)	Oral session 7: Driving behavior (Chair: Agachai Sumalee)	Oral session 8: Prediction 2 (Chair: Edward Chung)
		(23) Optimization of Transit Timetables Considering Transit Assignment *Hua-Yen Wu, Kanticha Korsesthakarn, Yun-Ju Chen, Chia-Yu Kang Yi-Ying Lin and James C. Chu* (32) Integrated Network Transport Simulator to Evaluate Transport Policy for Reduction of Carbon Dioxide Emission *Masashi Okushima* (37) Optimization of urban transit network design and timetabling for round-trip routes *Yun-Ju Chen, Chia-Yu Kang, Yi-Ying Lin Kanticha Korsesthakarn and James C. Chu* (41) Identifying passengers who are at risk of reducing public transport use: A survival time analysis using smart card data *Hiroaki Nishiuchi and Makoto Chikaraishi*	(29) A Hybrid Method for Predicting a Potential Next Rest Stop of Commercial Vehicles *Rathachai Chawuthai, Thanunchai Threepak, Agachai Sumalee and Nattaphon Chankaew* (53) An Analysis of Attentional Disengagement Effect on Driver's Cognition of Road Gradient at Sag Sections *Hirotoshi Shirayanagi, Toshio Yoshii and Satoshi Hyodo* (56) A Study on the Average Travel Speed on Interrupted Flow Multi-Lane Highways *Edwin Akandwanaho, Miho Iryo and Hideki Nakamura* (59) Impact of the Direction of the Horizontal Curves on the Operating Speed Performance of the Vehicles on Hilly Terrain *Regulus Shallam, Suvin P. Venthuruthiyil, Mallikarjuna Chunchu and Anjan Kumar Siddagangaiah*	(6) Predicting congestion maps using convolutional long short-term-memory *Yan Li, Majid Sarvi, Kourosh Khoshelham and Milad Haghani* (39) Real-time lane-based queue length prediction: a deep learning approach *Seunghyeon Lee, Kun Xie, Dong Ngoduy, Mehdi Keyvan-Ekbatani and Hong Yang* (83) Short-term prediction for bike-sharing service using machine learning *Bo Wang and Inhi Kim*
17:30 -		Gala dinner at Dogo Yamatoya		

5th Aug., 2018		Nanka Memorial Hall		
9:00 - 9:45	Keynote 2	Lets talk about peds!/ *Winnie Daamen, Delft University of Technology*		
9:45 - 10:15		Aidai Muse		
		Coffee Break		
		Room 1	Room 2	Room 3
10:15 - 11:35	Session IV	Oral session 9: CASE (Connected, autonomous, shared, and electric) (Chair: Yasuo Asakura) (30) A Study on the impact of AV-HDV mixed traffic on flow dynamics of single-lane motorway *Yuji Kakimoto, Miho Iryo, Emre Orhan and Hideki Nakamura* (31) Spatial distribution of Blablacar's intercity peer-to-peer ride-sharing trips: Case study of Spain *Azarel Chamorro-Obra and Daisuke Fukuda* (70) Simulation-Based Forecasting the Impacts of Autonomous Driving *Peter Sukennik, Jochen Lohmiller and Johannes Schlaich* (84) The uncapacitated battery swapping facility location problem with localized charging system serving electric buses fleet *Wentao Jing, Inhi Kim and Kun An*	Oral session 10: Data collection and new data (Chair: William H.K. Lam) (1) Identification of road bottlenecks on urban road networks using crowdsourced traffic data *Sakitha Kumarage, Dimantha De Silva and Saman Jayaweera Bandara* (24) Feature Extraction of Inter-region Travel Pattern Using Random Matrix Theory and Mobile Phone Location Data *Wataru Nakanishi, Hiromichi Yamaguchi and Daisuke Fukuda* (28) Freight Traffic Analytics from National Truck GPS Data in Thailand *Agachai Sumalee, Treerapot Siripirote, Nattaphon Chankaew, Thanunchai Threepak, Hung Wai Ho and William H.K. Lam* (48) Traffic Data Characterisation: Review and Challenges *Sara Respati, Ashish Bhaskar and Edward Chung*	Oral session 11: Network & MFD (Chair: Takashi Oguchi) (5) Relationship between the macroscopic fundamental diagram hysteresis and the spatial distribution of density for a multimodal network *Amr M. Wahaballa, Seham Hemdan and Fumitaka Kurauchi* (38) Cross comparison of spatial partitioning methods for urban transportation network *Shin Hirabayashi, Takao Dantsuji, Qian Ge and Daisuke Fukuda* (47) Using taxi GPS data for macroscopic traffic monitoring in large scale urban networks: calibration and MFD derivation *Shoufeng Lu, Victor L. Knoop and Mehdi Keyvan-Ekbatani* (74) Local traffic pattern extraction with network-wide consistency in large urban networks *Yaroslav Hernández Potiomkin, Tamara Djukic and Jordi Casas*
11:35 -12:10		Quick lunch		
12:10 -		Excursion		

6th Aug., 2018		Nanka Memorial Hall		
9:00 - 9:20		Shotgun poster presentation		
9:20 - 9:40		Coffee Break		
9:40 - 11:00	Session V	Alumni Hall		Nanka Memorial Hall
		Poster session (Chair: Takahiro Tsubota)		Special session 2: ETC 2.0 (Chair: Daisuke Fukuda)
		(2) A Study on Road Network Perimeter Control Policy for Reducing Air Pollution in Urban Area / *Sunghoon Kim, Sehyun Tak, Yeeun Kim and Hwasoo Yeo* (7) How desired speed level affects collective behavior of merging pedestrian crowds: insights from laboratory and simulated experiments / *Zahra Shahhoseini and Majid Sarvi* (8) Design of Robust Signal Timings for arterial traffic variations using macroscopic simulation / *Chaitrali Shirke, Nasser Sabar, Edward Chung and Ashish Bhaskar* (12) Travel-Demand Forecasting to Predict Demand for New Mobility Services Employing Autonomous Vehicles / *Ken Hidaka and Takahiro Shiga* (13) Application of amp collectors in nairobi cbd for transport planning / *Yoshiya Nakagawa, Junji Nishida, Hiroaki Asao, Babu Mukoko and Koichiro Tamura* (15) Modelling Cycling Flow for the estimation of cycling risk at a meso urban spatial level / *Suzanne Meade and Dr. Kathryn Stewart* (17) The Effectiveness of Historical Travel-time Information of Road Network in Shared Autonomous Taxi System / *Zhiguang Liu, Tomio Miwa, Weiliang Zeng and Takayuki Morikawa* (18) Quantitative Analysis Method of Traffic Service by Traffic Congestion under Developing Country / *Tsutomu Tsuboi* (19) Proposal of vehicle control algorithm to achieve optimum traffic flow in a weaving section under fully-controlled condition in urban expressway / *Shinji Tanaka and Tomoyoshi Shiraishi* (21) Integration of Bus Network Design and Dial-a-ride Scheduling / *Hsin-Hui Shih, Chia-Yu Kang, Yi-Ying Lin, Kanticha Korsesthakarn, Yun-Ju Chen and James C. Chu*	(36) Cleaning Wi-Fi Probe Request Data to Estimate Travel Time Reliability in Mixed Traffic / *Md. Shahin, Takahiko Kusakabe and Takashi Oguchi* (40) Estimating Missing Path on Trajectories Trip by using Bluetooth Data: Case study of downtown area in Bangkok, Thailand / *Rattanaporn Kaewkluengklom, Pattamaporn Wongwiriya, Tetsuhiro Ishizaka, Atsushi Fukuda and Sorawit Narupiti* (42) Applicability of Virtual Reality Systems for Evaluating Pedestrians' Perception and Behavior / *Miho Iryo-Asano, Yu Hasegawa and Charitha Dias* (50) Study on traffic condition after operating Bus Rapid Transit system in Hanoi / *Dung Nguyen and Yoshitaka Kajita* (64) Representation of sag bottleneck phenomena by using commercial microscopic traffic simulators / *Mariko Nakai, Kenichiro Nakazawa and Yasuhiro Shiomi* (77) Taxi passenger's getting on point prediction using deep learning / *Donggyun Ku, Jooyoung Kim and Seungjae Lee* (78) A Study on the Effect of the Development of V2X-communication on the Improvement of Road Function / *Sungyong Na, Seungjae Lee and Jooyoung Kim* (79) REAL-TIME TRAFFIC SIGNAL CONTROL UNDER V2X ENVIRONMENT USING DEEP Q NETWORK / *Sangchul Jung, Jooyoung Kim and Seungjae Lee* (82) Urban growth, transport planning, air quality and health: A multi-objective spatial analysis framework for a linear monocentric city / *Judith Y. T. Wang and Richard D. Connors* (87) High Collision Concentration Location Identification Method Based on Optimization Technique / *Jinwoo Lee, Ilia Papakonstantinou, Koohong Chung and Dong-Kyu Kim* (88) An Empirical Study of Pedestrian Perceptions on Climate Change / *Jodie Y. S. Lee*	(44) Characteristics of ETC2.0 probe data compared to road traffic census data *Shohei Yasuda, Takamasa Iryo, Yuta Koyama and Katsuya Sakai* (55) Route Choice Analysis in the Tokyo Metropolitan Area Using a Link-Based Recursive Logit Model with Link Awareness *Noriko Kaneko, Hideki Oka, Makoto Chikaraishi, Henrik Becker and Daisuke Fukuda* (66) Investigations of Electronic Toll Collection (ETC) 2.0 system for validation of map matching algorithm and analysis of spatial deviation in observed data *Katsuya Sakai, Yuta Koyama, Shohei Yasuda and Takamasa Iryo* (73) Anomaly detection for instantaneous driving speed obtained from ETC 2.0 data in Japan *Wataru Yamamoto, Yuki Yamamoto, Rina Takayama and Makoto Tsukai*
11:00 - 11:20		Coffee break		
11:20 – 12:05	Keynote 3	Freeway Traffic Control via Variable Speed Limits / *Markos Papageorgiou, Technical University of Crete*		
12:05 – 12:20		Closing address		