### Session I

#### Oral session 1: Incident and accident

1. "Incident Alert by an Anomaly Indicator of Probe Trajectories" by Masanori Yashida, Shogo Umeda, Yosuke Kawasaki and Masao Kawahara
2. "Tamper robust principal component analysis with continuum modeling of traffic flow: Application to abnormal traffic pattern extraction in large transportation networks" by Stanislav Lykov and Yasuo Aisaka
3. "Traffic signal optimisation in disrupted road networks, including drivers’ routing" by Dana Ahammad, Dong Nguyen and Alan Nicholson
4. "An analysis of risk factors for rear-end accident on urban expressway considering accident severity" by Satosuke Hiyodo and Tomoyuki Todoroki
5. "Effect of Road Pavement Ages on Traffic Accident Risks" by Takahiro Tsubota, Celso Fernando, Toshio Yoshii and Hirotsuki Shibayangi

#### Oral session 2: Traffic flow

1. "Traffic state estimation using small imaging satellites and connected vehicles" by Toma Seo and Takahito Kasahake
2. "Impact of VSL location on capacity drop: A case of sag and tunnel bottlenecks" by Irene Martinez and Wen-Long Jin
3. "Analysis of sag bottleneck phenomena based on multiclass traffic state estimation" by Moto Takahama and Yashiro Shioso

#### Special session 1: Wide-area disaster management

1. "Effect of delay in information propagation on traffic congestion" by Manysuki Kuchii, Takamasa Iryo, Masaya Furuta and Masao Kawahara
2. "On the implementation of high performance computing extension for day-to-day traffic assignment" by Wasuwat Petprakob, Lalith Wijeratne, Takamasa Iryo, Junji Urata and Kazuki Fukuda
3. "Scalable HPC enhanced agent based system for simulating mixed mode evacuation of large urban areas" by Lalith Maddegoda, Wasuwat Petprakob, Leonel Aguilar and Munuo Hori
4. "Fast calculation of dynamic traffic assignment by parallelised network loading algorithm" by Takamasa Iryo, Junji Urata, Kazuki Fukuda, Genaro Jr Peque, Wijeratne Lalith and Wasuwat Petprakob
5. "Development of a Traffic Demand Simulator under a Disaster Restoration Period" by Junji Urata, Takamasa Iryo and Biki Kawase

### Session II

#### Oral session 3: Pedestrian & mixed traffic

1. "Optimization of Transit Timetables Considering Transit Assignment" by Milad Haghani and Majid Sarvi
2. "Dynamic data collection of following and merging behavior in mixed traffic" by Anuj Budhkar, Abhishek Kumar Maurya and Ajitiji Maji
3. "Design of Variable Guidance for Pedestrian Evacuation" by Yi-Ying Lin
4. "Modified Generalized Definitions for the Traffic Flow Characteristics under Heterogeneous, No-Lane-Disciplined Traffic Streams" by Suvin P. Venthuruthiyil and Mallikarjuna Chunchu
5. "Simulating “strategic” decisions for pedestrians’ evacuation" by Milad Haghani and Majid Sarvi

#### Oral session 4: Microscopic simulation

1. "Investigating the performance of SPSA in Simulation-Optimization approaches to transportation problems" by Xavier Ros-Roca, Lida Montero, Arne Schreck and Jaume Barbé
2. "A modified particle swarm optimization algorithm to distribute lane changes in a freeway weaving segment" by David Suléjic, Nasser Sabar and Edward Chung
3. "Simulating Interactions between Pedestrians, Segway Riders and Cyclists in Shared Spaces using Social Force Model" by Charitha Dias, Hirotsuki Nishinuki, Satoshi Hiyodou and Tomoyuki Todoroki
4. "Calibration of Gipps’ Car-Following Model for Trucks and its Impacts on Fuel Consumption" by Johana Catin, Ludovic Leclercq, Florian Peryvony and Nor-Eddin El Fawazzi

### Session III

#### Oral session 6: Public transport and transport policy

2. "A Hybrid Prediction of Next Rest Stop of Commercial Vehicles" by Ratna Chawthai, Thunachai Threepak, Agachai Sumalee and Nattaphon Chankaw
3. "An Analysis of Attentional Disengagement Effect on Driver's Cognition of Road Gradient at Sag Sections" by Hirotsuki Shibayangi, Toshio Yoshii and Satoshi Hiyodo
4. "A Study on the Average Travel Speed on Interrupted Flow Multi-Lane Highways" by Edwin Akandwanaho, Miho Iryo and Hidetsu Nakamura
5. "Impact of the Direction of the Horizontal Curves on the Operating Speed of the Vehicles on Hilly Terrain" by Regulur Shallah, Suvin P. Venthuruthiyil, Mallikarjuna Chunchu and Anjan Kumar Sadagangiaiah

#### Oral session 7: Driving behavior

1. "Rational Design of Variable Guidance for Pedestrian Evacuation" by Dana Abudayyeh, Dong Ngoduy and Alan Nicholson
2. "Component analysis with continuum modeling of traffic flow: Accident Impact of Road Pavement Ages on Traffic Accident Risks" by Yungn analysis of risk factors for rear-end accident on urban expressway considering accident severity by Satosuke Hiyodo and Tomoyuki Todoroki
3. "Optimal lane changing based on multiclass traffic state estimation" by Charitha Dias, Hirotsuki Nishinuki, Satoshi Hiyodou and Tomoyuki Todoroki
4. "Calibration of Gipps’ Car-Following Model for Trucks and its Impacts on Fuel Consumption" by Johana Catin, Ludovic Leclercq, Florian Peryvony and Nor-Eddin El Fawazzi

#### Oral session 8: Prediction 2

1. "Real-time lane-based queue length prediction: a deep learning approach" by Swangyeon Lee, Koo Xie, Dong Nguyen, Mehdi Keyvan-Ekhtani and Hong Yang
2. "Short-term prediction for bike-sharing service using machine learning" by Bo Wang and Inhi Kim
ISTS & IWTDCS 2018 of 5th Aug. (Sun)

9:00 - 9:45 Keynote 2 Room 1 Room 2 Room 3
Coffee Break

9:45 - 10:15

10:15 - 11:35 Session IV

11:35 - 12:10 Quick lunch

12:10 - Excursion

ISTS & IWTDCS 2018 of 6th Aug. (Mon)

6th Aug. 2018

9:00 - 9:20 Shotgun poster presentation
9:20 - 9:40 Coffee Break
9:40 - 11:00 Session V

11:00 - 11:20 Coffee break

11:20 - 12:05 Keynote 3

12:05 - 12:20 Closing ceremony

Room 1 Room 2

Poster session

1. A Study on Road Network Perimeter Control Policy for Reducing Air Pollution in Urban Area / Sanghoon Kim, Seoyuk Tan, Yeon Kim and Hwansoo Seo
2. How desired speed level affects collective behavior of merging pedestrian crowds: insights from laboratory and simulated experiments / Zalnera Shaikh and Majdi Survi
3. Modelling Cycling Flow for the estimation of cycling risk at a meso urban spatial level / Suzanne Meade and Dr. Kathryn Stewart
4. The Effectiveness of Historical Traffic-time information of Road Network in Shared Autonomous Taxi / Jinji Niitsi, Hironori Ito, Ryo Otsuka and Kojiro Tamura
5. Application of amp collectors in nairobi ebd for transport planning / Yonisuke Nakagawa, Junji Nishida, Hiroaki Asao, Babu Mukoko and Kousuke Nara
6. Estimating Missing Path on Trajectories Trip by using Bluetooth Data: Case study of downtown area in bangkok, thailand / Pattamaporn Kaewkaengkorn, Pattamaporn Wongtiriyak, Tettsuhiro Ishizaka, Inatsu Fukuda and Sorelens Nara
7. Representational of sag bottle neck phenomena by using commercial microscopic traffic simulators / Mariko Nakat, Keiichiro Nakazawa and Yutaka Shiomi
8. Taxi passenger’s getting on point prediction using deep learning / Dongguan Ku, Jooyoung Kim and Seungjew Lee
10. Real-time traffic signal control under V2X environment using deep Q network / Sungshil Jung, Jooyoung Kim and Seungjew Lee
11. Cross comparison of spatial partitioning methods for urban transportation network / Shin Hiraibayashi, Takao Damatani, Qian Ge and Daisuke Fukuda
12. 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 Isotani and Takamasa Iryo
13. Anomaly detection for instantaneous driving speed obtained from ETC 2.0 data in japan / Watara Yamamoto, Yuki Yamamoto, Rina Takayama and Makoto Tsukai

Room 3

Oral session 9: CASE (Connected, autonomous, shared, and electric)

1. A Study on the impact of AV-HDV mixed traffic on flow dynamics of single-lane motorway / Yuki Kakinuma, Miho Iryo, Eme Ohran and Hideki Nakamura
2. Spatial distribution of Blablacar’s intercity peer-to-peer ride-sharing trips: Case study of Spain / Azrael Chamorro-Obra and Daisuke Fukuda
3. The uncapacitated battery swapping facility location problem with localized charging system serving electric buses fleet / Wentaing Jinhui Kim and Kun An
4. How desired speed level affects collective behavior of merging pedestrian crowds: insights from laboratory and simulated experiments / Zalnera Shaikh and Majdi Survi

Oral session 10: Data collection and new data

1. Identification of road bottlenecks on urban road networks using crowdsourced traffic data / Sakita Kuwarage, Dhamanha De Silva and Saman Jayasekara Bandara
2. Feature Extraction of Inter-region Travel Pattern Using Random Matrix Theory and Mobile Phone Location Data / Wataru Nakashita, Hirokiichi Yamaguchi and Daisuke Fukuda
3. Traffic Flow Analytics from National Truck GPS Data in Thailand / Agachai Sumalee, Tievesrat Sripitree, Nataphon Chankaw, Thanachai Threesak, Hlong Wei Ho and William H.K. Lam
4. Traffic Data Characterisation: Review and Challenges / Sara Razpay, Ashish Bhaskar and Edward Chung

Oral session 11: Network & MFD

1. Relationship between the macroscopic fundamental diagram hysteresis and the spatial distribution of density for a multimodal network / Amr M. Wkhahalla, Seham Hemedan and Fumitaka Kusakabi
2. Cross comparison of spatial partitioning methods for urban transportation network / Shin Hiraibayashi, Takao Damatani, Qian Ge and Daisuke Fukuda
4. Local traffic pattern extraction with network-wide consistency in large urban networks / Yaroslav Hernandez Potomkin, Tamara Dyakic and Jordi Casas

Special session 2: ETC 2.0

1. Characteristics of ETC2.0 probe data compared to road traffic census data / Shohei Isotani, Takamasa Iryo, Yuta Koyama and Katsuya Sakai
2. Route Choice Analysis in the Tokyo Metropolitan Area Using a Link-Based Recursive Logit Model with Link Awareness / Noori Kaseko, Hideki Oka, Makoto Chikarashiki, Henrik Beckers and Daisuke Fukuda
3. 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 Isotani and Takamasa Iryo
4. Anomaly detection for instantaneous driving speed obtained from ETC 2.0 data in Japan / Watara Yamamoto, Yuki Yamamoto, Rina Takayama and Makoto Tsukai