



15th ITS Asia Pacific Forum

Preliminary Programme (as of 12 April 2017)

Keynote Session

TUESDAY, 27 JUNE 2017, 09:00-10:30

Opening Ceremony (Club One)

Metropolitan Transportation Infrastructure in Smart City

Welcome Speech

1. Mr. Charles SO, President, Intelligent Transportation Systems Hong Kong
2. Mr. Hajime AMANO, Secretary General of ITS Asia-Pacific, Japan

Speakers

1. Prof. Anthony CHEUNG Bing-leung, Secretary for Transport and Housing, Hong Kong
2. Mr. Albert WONG Hak-keung, CEO, Hong Kong Science and Technology Parks Corporation, Hong Kong

Plenary Session

TUESDAY, 27 JUNE 2017, 11:00-12:00

Plenary Session 1 (Club One)

Metropolitan Transportation Infrastructure in Smart City

Speakers

1. Prof. Qing-quan LI, President, Shenzhen University, China
2. Ms. Yuko SANO, Chief Superintendent, Director for ITS Commissioner General's Secretariat, National Police Agency, Japan



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Executive Session 1 (CKK)

WEDNESDAY, 28 JUNE 2017, 09:00-09:30

Metropolitan Transportation Infrastructure in Smart City

1. Mr. Lincoln LEONG, Chief Executive Officer, MTR Corporation Limited, Hong Kong

WEDNESDAY, 28 JUNE 2017, 09:30-11:00

1. Mr. Brian NEGUS, President, ITS Australia and Ms. Susan HARRIS, CEO, ITS Australia, Australia
2. Mr. Joe LAM, Past Chairman, ITS Canada, Canada
3. Mr. Shinichi SASAKI, Chairman, ITS Japan, Japan
4. Dr. Yong Kyun LEE, Executive Director, Centre for Oversea Business, ITS Korea, Korea

Executive Session 2 (CKK)

WEDNESDAY, 28 JUNE 2017, 11:15-12:45

Metropolitan Transportation Infrastructure in Smart City

1. Dr. Kian Keong CHIN, Group Director, Transportation & Road Operations, Land Transport Authority, Singapore
2. Dr. S.K. Jason CHANG, Professor, Department of Civil Engineering, National Taiwan University, Chinese-Taipei

Closing Ceremony (CKK)

WEDNESDAY, 28 JUNE 2017, 16:00-17:00

Speakers

1. Ir Wai-leung TANG, Assistant Commissioner for Transport, Transport Department, Hong Kong
2. Mr. Son Thu LE, Division Chief Operating Officer of the Arterial, Transport Department, City of Montreal, Canada
3. Ms. Roman CHOI, Chairman, ITSAP 2017 Organising Committee, Hong Kong
4. The Representative from the 17th ITS Asia-Pacific Forum Fukuoka 2018



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Special Session

TUESDAY, 27 JUNE 2017, 14:00-15:30

Special Session 1

Hong Kong Science and Technology Parks Corporation (CHK)

CHALLENGE AND OPPORTUNITY IN DEVELOPING AUTONOMOUS SELF-DRIVING VEHICLES IN HONG KONG

Facilitator

Dr. Lawrence Poon, Principal Consultant, Automotive Parts and Accessory Systems R&D Centre

Panel Member

Ms. Rosana Wong, Founder, CEO and Managing Partner, Ophylla Ventures Management Company Limited

TUESDAY, 27 JUNE 2017, 16:00-17:30

Special Session 2

Singapore 1 (CHK)

SHARED DRIVERLESS TRANSPORTATION: RECLAIMING CITIES FOR THE PEOPLE

Gilvert Gagnaire, CEO EasyMile, France

WEDNESDAY, 28 JUNE 2017, 09:30-11:00

Special Session 3

Japan (CONFERENCE HALL 05)

ADVANCED MEGA-CITY URBAN ROAD TRAFFIC MANAGEMENT

Moderator

Takashi Oguchi, Professor, University of Tokyo, Japan

Speakers

Tetsuo Shimizu, Professor, Tokyo Metropolitan University, Japan

Ryota Horiguchi, i-Transport Lab., Japan

WEDNESDAY, 28 JUNE 2017, 11:15-12:45

Special Session 4

Singapore 2 (CONFERENCE HALL 05)

APPLICATION OF BIG DATA IN INTELLIGENT TRAFFIC SYSTEM

Sleny Ku, Sales Director, Kedacom International Pte Ltd, Singapore

WEDNESDAY, 28 JUNE 2017, 14:00-15:30

Special Session 5

Hong Kong (CONFERENCE HALL 05)

To be advised

WEDNESDAY, 28 JUNE 2017, 14:00-15:30

Special Session 6

Singapore 3 (CONFERENCE HALL 06)

VIDEO ENABLING YOUR BUSINESS WITH MILESTONE OPEN PLATFORM

Lawrence Tan, Strategic Alliance Manager, Asia Pacific Japan, Milestone Systems, Singapore



15th ITS Asia Pacific Forum

Technical Sessions

TUESDAY, 27 JUNE 2017, 14:00-15:30

TS1 MOBILITY 1 (CONFERENCE HALL 04)

**Moderator: Jason Chang, Professor, Department of Civil Engineering
National Taiwan University, Chinese-Taipei**

TS1-1.1 MULTIMODAL TRAVEL PLANNING

Scott Silence, Conduent Corporation, USA

TS1-1.2 URBAN ITS MOBILITY APPLICATION DEPLOYMENTS IN JAPAN

Junichi Hirose, Highway Industry Development Organization, Japan

TS1-1.3 MAKING SEAMLESS TRAVEL ON PUBLIC TRANSPORT A REALITY

Wei Ping Ong, Conduent, Singapore

TS1-1.4 ESTABLISHING A LIVE NATIONAL CONNECTED MULTI-MODAL TRANSPORT TEST BED

Majid Sarvi, University of Melbourne, Australia

TS2 SAFETY AND SECURITY 1 (CONFERENCE HALL 05)

**Moderator: K.M. Tsang, Past President
ITSHK, Hong Kong**

TS2-1.1 SURVEILLANCE & ENFORCEMENT SYSTEM

Paul Lim, ST Electronics info-comm Systems PTE Ltd, Singapore

TS2-1.2 HOW INTER-CITY BUS DRIVERS' PERFORMANCE ARE VERIFIED: CONSIDERING OBU RECORDED ABERRANT DRIVING BEHAVIOR

Chien-hung Wei, National Cheng Kung University, Chinese Taipei

TS2-1.3 LANE MERGING WARNING SYSTEM FOR SAFE & SMOOTH DRIVING

Musthafa Ibrahim, Land Transport Authority of Singapore, Singapore

TS2-1.4 IMPACT ANALYSIS OF DRIVER'S COMPLIANCE ON REACTIVE VARIABLE SPEED LIMITS CONTROL

Charnwet Haripai, Chulalongkorn University, Thailand



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TS3 ENVIRONMENT (CONFERENCE HALL 06)

**Moderator: Hong Lo, Chair Professor and Head Department of Civil and Environmental Engineering
The Hong Kong University of Science and Technology, Hong Kong**

TS3-1 ENVIRONMENTAL BENEFITS OF ITS – AIR QUALITY MONITORING AND BETTER TRAFFIC MANAGEMENT TO SUPPORT REDUCED EMISSIONS

Praveen Perera Kurukulasooriya, AURECON, Australia

TS3-2 SMART CITIES – A PARADIGM SHIFT FOR TRANSPORTATION ENGINEERING

Leo Lee, ADVANTEC Consulting Engineers, Hong Kong

TS3-3 TRAFFIC CONTROL SYSTEM FOR IMPROVING TRAFFIC PROBLEMS IN BANGKOK

Hajime Sakakibara, Sumitomo Electric Industries, LTD, Japan

TS4 INNOVATION 1 (CONFERENCE HALL 07)

**Moderator: Zhi-lin Li, Professor, Chair Professor of Geo-Informatics
The Hong Kong Polytechnic University, Hong Kong**

TS4-1.1 THE NEW SMART PARKING PARKING MOBILE APP “PARKPAY” AND ITS INNOVATIVE SEAMLESS ECO SYSTEM

Lynette Wu, YDT Technology International Co. Ltd, Chinese Taipei

TS4-1.2 EUROPEAN OPTICITIES, GRAND LYON, FRANCE – A REAL TIME SIMULATION MODEL FOR URBAN TRAFFIC CONTROL AND NETWORK OPTIMISATION

Dave Keenan, Transport Simulation Systems, Australia

TS4-1.3 SYDNEY LIGHT RAIL – INTEGRATION OF THE SYDNEY COORDINATED ADAPTIVE TRAFFIC SYSTEM (SCATS) INTO OPERATIONAL TRAFFIC MODELLING

Robert Dus, GTA Consultants, Australia

TS4-1.4 TRAFFIC DECONGESTION ENGINE – DECON-LIVE

Zhen Hong Ho, Land Transport Authority of Singapore, Singapore

TUESDAY, 27 JUNE 2017, 16:00-17:30

TS1 MOBILITY 2 (CONFERENCE HALL 04)

**Moderator: Hai Yang, Chair Professor, Department of Civil and Environmental Engineering
The Hong Kong University of Science and Technology, Hong Kong**

TS1-2.1 THE ITALIAN ITS LOGISTICS PLATFORM FOR THE MANAGEMENT OF DANGEROUS GOODS TRANSPORT AND PARKING AREA FOR HEAVY TRUCKS

Leonardo Domanico, TTS Italia, Italy

TS1-2.2 SIMULATION STUDIES OF AUTONOMOUS VEHICLES UNDER MIXED TRAFFIC FLOWS

Ta-Yin Hu, National Cheng Kung University, Chinese Taipei

TS1-2.3 DESIGN OF NEXT GENERATION SMART SURFACE TRANSPORTATION SYSTEM

Francis Chang, National University of Singapore, Singapore

TS1-2.4 DATA DRIVEN SIMULATION FOR PUBLIC TRANSPORT PLANNING

Narayanan Edakunni, Conduent, India

TS2 SAFETY AND SECURITY 2 (CONFERENCE HALL 05)

**Moderator: Eric Wong, Senior Engineer, Transport Information System
HKSAR Transport Department, Hong Kong**

TS2-2.1 APPLICATION OF A POTENTIAL RISK ASSESSMENT TO NAVIGATION APPROACH OF AUTOMATED VEHICLES

Wei Xue, The University of Tokyo, Japan

TS2-2.2 WEIGH IN MOTION USED FOR TRUCK COMPLIANCE AND ROAD SAFETY

Hong Fang, International Road Dynamics, Canada

TS2-2.3 PUSH FOR SAFE MOBILITY IN HONG KONG

Henry Wong, HKT Limited, Hong Kong

TS2-2.4 ACCIDENT COST ANALYSIS FOR SELECTING ROAD ACCIDENT BLACK SPOTS: IN CASE OF SOUTH KOREA

Aram Yang, Daejeon Sejong Research Institute, Korea

TS2-2.5 INFORMATION SECURITY OF INTERCONNECTED DEVICES IN INTELLIGENCE SYSTEM

Joe C.L. Chan, AdvSTAR Laboratory, Hong Kong



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TS5 COMMUNICATION (CONFERENCE HALL 06)

Moderator: Ivan Ho, Research Assistant Professor
The Hong Kong Polytechnic University, Hong Kong

TS5-1 URBAN SENSING

Manuel Lawrence, Arup, Australia

TS5-2 NEW COMMUNICATION TECHNOLOGIES AND APPLICATIONS, INCLUDING V2X

Andy Gill, Siemens, UK

TS5-3 RELIABILITY EVALUATION OF V2X COMMUNICATION BASED ON ACTUAL MEASUREMENT DATA UNDER A HIGH-SPEED DRIVING

Bo Young Kang, CEST, Korea

TS5-4 IMAGE RECOGNITION BASED OBU PROBE SYSTEMS FOR TRAFFIC MONITORING

Nobuyuki Ozaki, Toshiba Corporation, Japan

TS4 INNOVATION 2 (CONFERENCE HALL 07)

Moderator: Wu Chen, Associate Head (Research) and Professor
The Hong Kong Polytechnic University, Hong Kong

TS4-2.1 RESEARCH FOR EXTRACTING ROAD PATHS WITH USERS' ACTIVITIES

Yuki Fujimoto, Kansai University, Japan

TS4-2.2 RESEARCH FOR INFERRING ROUTINE ACTIVITIES OF PEOPLE USING MICROBLOGS

Ryo Kato, Graduate School of Kansai University, Japan

TS4-2.3 DEVELOPMENT OF NAVIGATION SYSTEM FOR PEDESTRIAN WITH BLE BEACON

Hitoshi Morita, University of Nagasaki, Japan

TS4-2.4 A LOW-COST SENSOR FUSION METHOD FOR PRECISE VEHICLE POSITIONING

Rinara Woo, Center for Embedded Software Technology (CEST), Korea

TS4-2.5 OPEN PAYMENT FARE SYSTEMS EXPLAINED

Wei Ping Ong, Conduent, Singapore

WEDNESDAY, 28 JUNE 2017, 09:30-11:00

TS6 TRANSPORT BIG DATA ANALYSIS 1 (CONFERENCE HALL 04)

**Moderator: Xia Linyuan, Professor, School of Geographical Sciences and Planning
Sun Yat-Sen University, Guangzhou, China**

TS6-1.1 INFERENCE OF TRAFFIC FLOW DATA BY UTILIZING SMALL NUMBER OF ROADSIDE DETECTORS

Toru Sakon, Sumitomo Electric Industries Ltd., Japan

TS6-1.2 AN ENSEMBLE METHOD FOR REAL-TIME ROAD TRAFFIC ESTIMATION FROM GPS TRACES IN BANGKOK

Laura Wynter, IBM Research, Singapore

TS6-1.3 APPLYING DATA ANALYTICS TO BETTER MATCH TAXI DRIVERS TO PASSENGERS

Wu Nah, STEE-InfoComm, Singapore

TS6-1.4 GOING BEYOND TRADITIONAL DATA FOR INTEGRATED TRANSPORTATION IN SMART CITIES

Abbas Ravat, KPIT, India

TS6-1.5 DYNAMIC PRICING FOR PARKING MANAGEMENT IMPROVEMENT

Wei Ping Ong, Singapore

TS7 POLICY AND STANDARD 1 (CONFERENCE HALL 06)

**Moderator: T.F. Leung, Past Assistant Commissioner
HKSAR Transport Department, Hong Kong**

TS7-1.1 TRAVEL DEMAND MANAGEMENT, INCLUDING ELECTRONIC ROAD PRICING (ERP) AND COMPLIMENTARY MEASURES

Andy Gill, Siemens, UK

TS7-1.2 CUSTOMER FOCUSED RFID - HOW "6C" IS SOLVING PROBLEMS AND ENABLING SOLUTIONS

Robert William Karr, Star Systems International Ltd, Hong Kong

TS7-1.3 A FRAMEWORK OF URBAN TRAFFIC EVENT INFORMATION MANAGEMENT SYSTEM IN CHINESE TAIPEI

Meng-Chieh Lin, KingwayTek Co. Ltd, Chinese Taipei

TS7-1.4 HOW ITS WILL TRANSFORM TRANSPORT SERVICES IN CHINESE TAIPEI

Chien-Pang Liu, Ministry of Transportation & Communications, Chinese Taipei



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TS8 INTEGRATION 1 (CONFERENCE HALL 07)

**Moderator: Agachai Sumalee, Professor, Department of Civil and Environmental Engineering
The Hong Kong Polytechnic University, Hong Kong**

TS8-1.1 THE EFFECTS OF FARE ADJUSTMENT ON BIKESHARING—A CASE STUDY OF BIG DATA ANALYSIS ON TAIPEI YOUBIKE

Chih-Lin Albert Chung, Tamkang University, Chinese Taipei

TS8-1.2 INTELLIGENT USE OF PROBE DATA IN MAP MAKING

Leen D'Hondt, TomTom, Thailand

TS8-1.3 "PLATOON DISPERSION MODELING OF MIXED ROAD TRAFFIC TO OPTIMIZE SIGNAL SETTING OVER ARTERIAL NORTH RING ROAD LINK IN YOGYAKARTA"

Ahmad Munawar, Gadjah Mada University, Indonesia

TS8-1.4 CHARGING LOAD MANAGEMENT SYSTEM OF NORMAL AND QUICK CHARGERS IN A CHARGING STATION

Sam Y.S. Wong, Hong Kong Productivity Council, Hong Kong

TS8-1.5 ARTERIAL-LEVEL TRAFFIC PROGRESSION OPTIMIZATION MODEL WITHIN CONNECTED VEHICLE ENVIRONMENT

Li Zhang, Mississippi State University, USA

WEDNESDAY, 28 JUNE 2017, 11:15-12:45

TS6 TRANSPORT BIG DATA ANALYSIS 2 (CONFERENCE HALL 04)

**Moderator: Lilian Pun, Associate Head (Academic) and Associate Professor
The Hong Kong Polytechnic University, Hong Kong**

TS6-2.1 INVESTIGATION OF PUBLIC TRANSPORT TRANSFER PATTERNS USING SMART CARD DATA

Xiaodong Liu, Tum Create Ltd., Singapore

TS6-2.2 SMARTER TRANSPORTATION DATA LEADS TO A SMARTER CITY

Phil Allen, TomTom, New Zealand

TS6-2.3 IMPROVING URBAN MOBILITY WITH BIG DATA

Archana Ramkrishnan, Conduent INC., India

TS6-2.4 RESEARCH FOR GENERATING ROAD ALIGNMENT WITH POINT CLOUD DATA IN HIGHWAY BRIDGES

Wenyuan Jiang, Graduate School of Kansai University, Japan

TS6-2.5 SMART CROWD MANAGEMENT IN REAL TIME

Alan Hung, Mother App Limited, Hong Kong

TS7 POLICY AND STANDARD 2 (CONFERENCE HALL 06)

**Moderator: Sam Pang, Immediate Past President
Intelligent Transportation Systems Hong Kong, Hong Kong**

TS7-2.1 HOW A DISAGGREGATE MAAS ECOSYSTEM CAN BRING POSITIVE EFFECTS ON POLICY AND ECONOMY

Nate Chanchareon, PTV Asia-Pacific PTE Ltd, Singapore

TS7-2.2 FACTORS AFFECTING TRAFFIC ACCIDENTS IN THAILAND

Tachaudomdach Suchat, North-Chiang Mai University, Thailand

TS7-2.4 TOLLING ENFORCEMENT AND POLICY BEST PRACTICES

Wei Ping Ong, Conduent, Singapore

TS8 INTEGRATION 2 (CONFERENCE HALL 07)

Moderator: Stanley Ng, CEO
Mapking, Hong Kong

TS8-2.1 ADAPTIVE SYSTEM INTEGRATION AND CONNECTED TRAVELLERS, CITY OF RED DEER ALBERTA (CANADA) CASE STUDY

Douglas Gubbe, Novax industries Corporation, Canada

TS8-2.2 DECISION SUPPORT IN REAL-TIME TRAFFIC MANAGEMENT

Cherry Ovasith, PTV Asia-Pacific PTE Ltd, Singapore

TS8-2.3 PERFORMANCE EVALUATION OF MULTIPLE INTERSECTIONS USING VISSIM AND SIDAR7 - A CASE STUDY OF KUALA LUMPUR

Nurul Najwa Nawai, Gamuda Engineering Sdn Bhn, Malaysia

TS8-2.4 TOWARDS SELF-HEALING TRANSPORT NETWORK - A SMART INCIDENT MANAGEMENT SYSTEM

Rui Tan, Sopra Steria Asia Pte Ltd, Singapore

TS8-2.5 INCIDENTS PRIORITIZATION MODEL FOR THAILAND'S MOTORWAY DECISION SUPPORT SYSTEM

Jiralak Suttitum, Kasetsart University, Thailand

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TS4 INNOVATION 3 (CONFERENCE HALL 04)

Moderator: Andrew Pickford, Director
MVA, Hong Kong

TS4-3.1 RESEARCH FOR EXTRACTING TRAFFIC PHENOMENA WITH REALTIME KEYWORDS USING SOCIAL NETWORKING SERVICE

Akira Toyama, Kansai University, Japan

TS4-3.2 INFLUENCE OF CURVE RADIUS ON LOOK-AHEAD DISTANCE AND ITS EFFECT ON HAPTIC GUIDANCE STEERING CONTROLLER

Kimihiko Nakano, The University of Tokyo, Japan

TS4-3.3 SMART CITIES IN INDIA - FAST GROWING & HIGH POTENTIAL MARKET FOR ITS

Mohit Kochar, KPIT, India

TS4-3.4 CHALLENGES OF ELECTRIC VEHICLE CHARGING

Ryan Cheng, Hong Kong Productivity Council, Hong Kong