15th ITS Asia Pacific Forum

Preliminary Programme (as of 19 May 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
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
3. Dr. Passakon Prathombutr, Past-President, ITS-Thailand, Thailand

Closing Ceremony (CKK)

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

Speakers

1. Ir Peter P. C. WONG, 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. The Representative from the 16th ITS Asia-Pacific Forum Fukuoka 2018
4. Ms. Roman CHOI, Chairman, ITSAP 2017 Organising Committee, Hong Kong
15th ITS Asia Pacific Forum

Special Session

TUESDAY, 27 JUNE 2017, 14:00-15:30
Special Session 1
Hong Kong Science and Technology Parks Corporation (CKK)
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
EasyMile (CKK)
SHARED DRIVERLESS TRANSPORTATION: RECLAIMING CITIES FOR THE PEOPLE
Gilvert Gagnaire, CEO, EasyMile, France

WEDNESDAY, 28 JUNE 2017, 09:30-11:00
Special Session 3
Smart City Consortium (CONFERENCE HALL 05)
To be advised

WEDNESDAY, 28 JUNE 2017, 11:15-12:45
Special Session 4
Kedacom International Pte Ltd (CONFERENCE HALL 05)
FALCON SYSTEM - PRECOGNITIVE, MOBILE, INTEGRATED
Chin Lam Ng, Sales Director, Kedacom International Pte Ltd, Singapore
Special Session

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

Special Session 5 (CONFERENCE HALL 05)
ADVANCED MEGA-CITY URBAN ROAD TRAFFIC MANAGEMENT
Organizer
Takashi Oguchi, Professor, the University of Tokyo, Japan
Moderator
Takashi Oguchi, Professor, the University of Tokyo, Japan
Speakers
Ryota Horiguchi, CEO, i-Transport Lab, Japan
Agachai Sumalee, Professor, Hong Kong Polytechnic University, Hong Kong
Kian-Keong Chin, Dr./Group Director, Land Transport Authority, Singapore

WEDNESDAY, 28 JUNE 2017, 14:00-15:30
Special Session 6
Milestone Systems (CONFERENCE HALL 06)
VIDEO ENABLING YOUR BUSINESS WITH MILESTONE OPEN PLATFORM
Lawrence Tan, Strategic Alliance Manager, Asia Pacific Japan, Milestone Systems, Singapore

WEDNESDAY, 28 JUNE 2017, 14:00-15:30
Special Session 7
Hong Kong 2 (CONFERENCE HALL 07)
CONNECTED CAR DEVELOPMENT - SE ASIA AND CHINA PERSPECTIVE
Stanley Ng, CEO & Founder, MapKing, Hong Kong

IOT FOR CONSTRUCTION INDUSTRY_INNOVATIVE AND TECHNOLOGY BREAKTHROUGH FOR MAN_MAN INDUSTRY
Infotronic Technology Limited
Technical Sessions

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

**TS1-1 MOBILITY 1 (CONFERENCE HALL 04)**
Moderator: Jason Chang, Professor, Department of Civil Engineering
National Taiwan University, Chinese-Taipei

**TS1-1.1 MULTIMODAL TRAVEL PLANNING**
Archana Ramakrishan, Conduent INC, India

**TS1-1.2 URBAN ITS MOBILITY APPLICATION DEPLOYMENTS IN JAPAN**
Junichi Hirose, Highway Industry Development Organization, Japan

**TS1-1.3 ESTABLISHING A LIVE NATIONAL CONNECTED MULTI-MODAL TRANSPORT TEST BED**
Majid Sarvi, University of Melbourne, Australia

**TS2-1 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
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TS3  ENVIRONMENT  (CONFERENCE HALL 06)
Moderator: Paul Tsui, ESRI 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 TRAFFIC CONTROL SYSTEM FOR IMPROVING TRAFFIC PROBLEMS IN BANGKOK
Hajime Sakakibara, Sumitomo Electric Industries, LTD, Japan

TS4-1 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
**TS1-2 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

**TS2-2 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 INFORMATION SECURITY OF INTERCONNECTED DEVICES IN INTELLIGENCE SYSTEM**  
Joe C.L. Chan, AdvSTAR Laboratory, Hong Kong
**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

**TS4-2 INNOVATION 2 (CONFERENCE HALL 07)**
Moderator: Becky P Y Loo, Professor, Department of Geography
The University of Hong Kong, 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
TS6-1 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

TS7-1 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 ELEYTRONIC 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
TS8-1 INTEGRATION 1 (CONFERENCE HALL 07)
Moderator: To Be Advised

TS8-1.1 THE EFFECTS OF FARE ADJUSTMENT ON BIKE SHARING—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
**TS6-2 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**
Narayanan Unny, Conduent INC., India

**TS6-2.4 RESEARCH FOR GENERATING ROAD ALIGNMENT WITH POINT CLOUD DATA IN HIGHWAY BRIDGES**
Wenyuan Jiang, Graduate Shool of Kansai University, Japan

**TS6-2.5 SMART CROWD MANAGEMENT IN REAL TIME**
Alan Hung, Mother App Limited, Hong Kong

**TS7-2 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

**TS7-2.4 BRAVE NEW WORLD – TRANSPORT FUNDING AND DEMAND MANAGEMENT**
Jack Opiola, D'Artagnan Consulting LLP, USA
**TS8-2 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**
Phimphun 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 Bhd, Malaysia

**TS8-2.4 TOWARDS SELF-HEALING TRANSPORT NETWORK – A SMART INCIDENT MANAGEMENT SYSTEM**
Rui Tan, Sopra Steria Asia Pte Ltd, Singapore

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

**TS4-3 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 SMART MOBILITY - C-V2X TECHNOLOGY**
Meikei Ieong, ASTRI, Hong Kong

**TS4-3.5 CHALLENGES OF ELECTRIC VEHICLE CHARGING**
Daniel Siu, Hong Kong Productivity Council, Hong Kong