



6.2 Special Session Programme

Day 1 – Monday, 27 May 2019, 14:30 to 16:10

Session Chairs: *Shige Sakaki, World Bank; Jonathan Gifford, George Mason University*

Gen_SS1 Prof. B. Nag Auditorium **Rail Station Redevelopment for Developing Countries using Public-Private Partnerships: A New Guidebook from the World Bank**

The session would be comprised of 4-5 speakers drawn from the World Bank study team. Invited speakers would include representatives from Indian Railways, India's Ministry of Transport, as well as possibly from station redevelopment stakeholders from Mumbai, New Delhi, and other case study cities.

Day 1 – Monday, 27 May 2019, 16:30 to 18:10

Session Chair: *Prof. Yoshitsugu Hayashi, WCTRS President; Chubu University, Japan*

Gen_SS3 VMCC 01 **Presentation of PhD students' grants**
Third edition of WCTRS-Young Initiative's Activity II (Y-II Ed 3)

- Opening Talk: Session Chair, Yoshi Hayashi, WCTRS President
- Brief on WCTRS Young Researchers' Initiative (WCTRS-Y): Laetitia Dabanc, Professor, University of Paris East/IFSTTAR, Leader of WCTRS-Y
- Andres Fielbaum, University of Chile, recipient of WCTRS-YII Innovative Grant
- Exploring optimal frequencies, capacities and line structures for public transport systems based on new technologies.
- Jeroen Bastiaassen, University of Leeds, UK, recipient of WCTRS-YII Prestige Grant
- Youth mobility and access to economic opportunities
- Nasmul Khan, Dalhousie University, Canada, recipient of WCTRS-YII Prestige Grant
- Households' trip-based vehicle allocation models for travel accompanying arrangements.
- Gurav Mittal, National University of Singapore, recipient of WCTRS-YII Prestige Grant
- Vernacular Governance of (informal) public transport.
- Manu Sasidharan, University of Birmingham, UK, recipient of WCTRS-YII Prestige Grant
- Risk based asset management for sustainable transport maintenance
- Closing: Yoshi Hayashi

Session Chair: *Holger Dalkmann, Urban Theme Lead High Volume Transport Program by DfID*

Gen_SS24 VMCC 03 **The future of high volume transport - a research and capacity building agenda for low income countries**

High volume transport (HVT) infrastructure and services are a crucial enabler for improving the economy, society and people's lives in less developed countries. This session will share the latest state of knowledge of long-distance, urban, low carbon and inclusive transport, and discuss the demand for new applied research and capacity building. The HVT program by the UK Department for International Development (DfID) was launched in 2017 as a five-year applied research programme in the low-income countries (LICs) of Africa and South Asia.

4.30pm – 4.35pm Welcome and Introduction (Holger Dalkmann, HVT Program, DfID)

4.35pm – 5.00 pm Future research for High Volume Transport (Holger Dalkmann, HVT Program, DfID)

5.00pm – 5.15 pm The Future Needs for Capacity Building (Pranjali Deshpande, ITDP India)

5.15pm – 6.10 pm Open panel discussion with Geetam Tiwari (IIT Delhi), Hayashi Yoshitsugu (WCTRS), Choudhury Rudra Charan Mohanty(UNCRD), OP Agarwal (WRI India), Parashar Laghu (TUMI/GIZ)





Session Chair: Dr Kartikeya Tripathi, University College London

Gen_SS4 VMCC 12

Police response to runaway adolescents on Mumbai's rail network

- Response of the police: Mr Niket Kaushik, Commissioner of Police, Railways, Mumbai: A discussion of challenges that police faces in safeguarding rights of runaway children
- Social policy perspective: Dr Julian Walker, Associate Professor, Development Planning Unit, Faculty of Built Environment, UCL: Discussion on contextual challenges that institutions in Mumbai face using the Participatory Practice model developed by Caren Levy.
- The view of the NGOs: Mr Kishor Bhamre, Director, Pratham Council for Vulnerable Children: Discussion on the national level macro factors that contribute to children using the rail network to come to Mumbai.
- Question and Answer session

Session Chair: Stephen Perkins, Head of Research and Policy Analysis, International Transport Forum – OECD

Gen_SS5 VMCC 22

Policies to Manage Mobility in Megacities: Into the Unknown?

- The experience of advanced economies has nothing to offer new megacities in Southern and South East Asia - Dinesh Mohan, Emeritus Professor, Indian Institute of Technology, Delhi
- Implementing Sustainable Urban Travel Policies in China's Megacities - Haixiao Pan, Professor of Urban Planning, Tongji University, Shanghai.
- Discussion by Chia-Lin Chen, Lecturer in Urban Planning, University of Liverpool.

Day 2 – Tuesday, 28 May 2019, 09:30 to 11:10

Session Chair: Sudhir Kumar Jain, Indian Institute of Technology Gandhinagar

Gen_SS6 VMCC 32

ADBI-HSR (1): Need for HSR and Importance of Dedicated Track towards Safe, Available and Reliable Operations

1. Session Introduction - Nikhil Bugalia, The University of Tokyo
2. Keynote speech: Transport Safety and its relevance in Japanese socio-economic context – Fuminao Okumura, Board member of Japan Transport Safety Board
3. Presentations:
 - (a) Economic Development stage and need for safe HSR (Dedicated Tracks) – Hiroyuki Takeshita, Chubu University
 - (b) JR East Experience in delivering Safe and Reliable Services – Yoshihiro Kumamoto, East Japan Railway Company
4. Discussion
5. Presentations:
 - (a) Korail Experience in delivering Safe and Reliable Services - Byung-Il Oh, Korail
 - (b) Relative advantages of Dedicated Track System and its relevance to India – Satoru Osanai, President, Japan Railway Technical Service (JARTS)
6. Discussion and Comments on Key strategies for HSR safety in India - Role of all stakeholders by Session Co-Chair – Yu Maemura, The University of Tokyo

Session Chair: Choudhury Rudra Charan Mohanty, Principal Researcher, UN Centre for Regional Development (UNCRD)

Gen_SS7 LC 001

UNCRD-WCTRS Joint Session: Role of the Private Sector in Sustainable and Resilient Transport Development in Cities of Asia

Government of India's Smart City Initiative – Renewal of Urban Transport Sector towards Smart and Resilient Urban Development – by representative of the MOUD-India Transit Oriented Development (TOD) and Smart Growth – Case of Japanese Public-Private-Partnerships – by Japanese representative
Presentation by Private Sector Representative on a real PPP case study; and
Presentation by Academic Sector or NGO or UN Representative on transport development and its implications towards SDG 11
Panel Discussion





Session Chair: Prof. Narayan Rangaraj, IEOR, IIT Bombay

- Gen_SS8 Prof. B. Nag Auditorium **Experiences from Metro Rail operations from Indian Cities**
1. Narayan Rangaraj, IEOR IITB
 2. Official from DMRC
 3. Official from Mumbai metro one
 4. R Ramana, MMRCL
 5. S. K. Gupta, MMRCL

Session Chair: Keshuang Tang, Tongji University; Zong Tian, University of Nevada

- C2_SS1a LC 101 **International practice on road traffic signal control**
1. Opening Address - Yoshitsugu Hayashi, President of the WCTRS
 2. Opening Remarks and Introduction of the WCTRS-Elsevier Co-Branded Book "Global Practices on Road Traffic Signal Control - Keshuang Tang, Tongji University, China
 3. Country Report #1: USA and Canada - Zong Tian, University of Nevada, Reno, USA
 4. Country Report #2: Germany and Austria - Manfred Boltze, Technische Universität Darmstadt, Germany
 5. Country Report #3: Japan - Hideki Nakamura, Nagoya University, Japan

Session Chair: Geetam Tiwari, Indian Institute of Technology, Delhi

- C4_SS1 LC 102 **Systematic Reviews and Evidence Gap Maps for Traffic Safety**
1. *Introduction to Systematic Reviews and Evidence Gap Maps*: Denny John, Evidence Synthesis Specialist, Campbell Collaboration
 2. *Panel Discussion*: Moderator, Professor Dinesh Mohan, Independent Council for Road safety International
Panellists:
 1. Prof. Wael K. M. Alhajyaseen, Qatar University.
 2. Mr. Stephen Perkins, International Transport Forum, OECD.
 3. Professor George Yannis, National Technical University of Athens.
 4. Professor Massimiliano Gastaldi, University of Padova.
 3. Question and answer session including audience

Day 2 – Tuesday, 28 May 2019, 11:30 to 13:10

Session Chair: Thierry Vanelslander, University of Antwerp, Belgium

- A2_SS1 VMCC 02 **Port rail freight intermodality: from theory to practice**
1. Introduction and problem setting (2 min.)
 2. BRAIN-TRAINS results introduction (all five topics consecutively) by Thierry Vanelslander (3 min. per topic) and discussion (16 min. per topic) by all below-mentioned participants:
 1. Operational and network planning
 2. Economic impact
 3. Environmental impact
 4. Regulatory need
 5. Government organisation
 3. Wrap-up (3 min.)
- Discussion group participants:
1. Thierry Vanelslander, University of Antwerp
 2. Kay Mitusch, Karlsruhe Institute of Technology
 3. Yves Crozet, University of Lyon
 4. Florent Laroche, University of Lyon
 5. Seraphim Kapros, University of the Aegean
 6. Enrico Musso, University of Genoa
 7. Rosário Macário, University of Lisbon
 8. Vincent Kaufmann, EPFL





Session Chair: Dr. Ashish Verma, Indian Institute for Science, Bangalore

G6_SS1 VMCC 22

Health Impact Modelling of Transport in Lower and Middle Income Settings

- Introduction to health impact models and the methods used laying the foundation for the following presentations (Dr James Woodcock, University of Cambridge)
- Travel surveys: estimating missing data on short walk and cycle trips (Dr Deepty Jain, Teri University)
- Road traffic injuries: understanding risk considering all the vehicles involved in a collision. Data from India and Latin America. (Prof Geetam Tiwari, IITD)
- What data on travel patterns are available from Indian cities and how suitable is it for health impact modelling? (Nishant Singh and Amit Sharma, IITD).
- Google Street View and Google Earth: Innovative use of new and emerging big data sources to estimate travel patterns and traffic volume (Dr Rahul Goel, University of Cambridge)
- The TIGTHAT model: integrated case studies of physical activity, traffic injuries, and air pollutions from Delhi, Visakhapatnam, Bengaluru: India; Bogota, Colombia; and Accra, Ghana (Dr James Woodcock)
- Panel consisting of speakers plus respondents (3-5 minutes) after the end of the talks.

Respondents from:

- World Resources Institute, India
- Public Health Foundation of India
- Health and Environmental Alliance

Session Chair: Keshuang Tang, Tongji University; Zong Tian, University of Nevada

C2_SS1b LC 101

International practice on road traffic signal control

- Country Report #4: Australia and New Zealand - Chaitrali Shirke, Queensland University of Technology, Australia
- Country Report #5: India - Shrinivas Arkatkar, Sardar Vallabhbhai National Institute of Technology, India
- Q&A, Open Discussions - Moderator: Zong Tian, University of Nevada, Reno, USA; Keshuang Tang, Tongji University, China
- Closing Remarks
Manfred Boltze, Technische Universität Darmstadt, Germany - Editorial Board Member of the WCTRS Book Series
Fusun Ulengin, Sabanci University, Turkey - Chair of Editorial Board of the WCTRS Book Series

Session Chair: Dr Nasim Akhtar, CSIR-CRRI, New Delhi

F5_SS1 CE 212

Transport noise and its control measures

The travel demand in urban areas is continuously on the increase. This has become very severe with the heavy concentration of population in a few metropolitan cities in the country. The propensity to own private vehicles and the necessity for their use has generated huge road infrastructure demand in metropolitan cities. The mismatch between demand and supply of road infrastructure leads to congestion, excessive fuel consumption, air and noise pollution, and accidents. To address the problem of transport generated noise various measures have been taken in the past but it is not adequate. So different types of noise control techniques will be discussed in this special session.

Objectives are

- a. Transport noise measurement techniques
- b. Noise modelling
- c. Noise mapping
- d. Noise barrier design for noise control





Session Chair: Lorena Figueroa Corral, Chronos & Qulsar

- Gen_SS9 Prof. B. Nag Auditorium **Crimes in Transport due to Signal jamming or blocking or failure in real time communication as well as technological solutions**
1. Describe worldwide problematic with safety and security in transport
 2. Describe current technologies
 3. Describe new innovative technologies
 4. Applications of new technologies
 5. Discussion Q & A

Day 2 – Tuesday, 28 May 2019, 16:30 to 18:10

Session Chair: Ashish Verma, Indian Institute for Science, Bangalore

- Gen_SS14 VMCC 13 **CLIMATRANS: Climate change Mitigation and Adaptation Policies for Urban Transport Sector in India**
1. Ashish Verma, IISc Bangalore – Brief introduction about climatrans project and its significance.
 2. Sanjay Gupta, SPA, Delhi – Climate change mitigation and adaptation strategies for urban transport in India- Case Study of Delhi
 3. Munish chandel, IIT Bombay - Climate change mitigation and adaptation strategies for urban transport in India- Case Study of Mumbai
 4. Ashish Verma, IISc Bangalore – Climate change mitigation and adaptation strategies for urban transport in India- Case Study of Bengaluru

Session Chair: Prof. Lelitha Vanajakshi, IIT Madras

- Gen_SS25 VMCC 14 **WCTR Sponsors' Special Session**
1. Talk by Vijay Kovvali and Srinivas Ganji, IBI Group on “Defining Sustainable Cities in India”
 2. Talk by Sonal Ahuja, Sunovatech Group on “Planning safe evacuation of humans from man-made disasters”
 3. Talk by Manraj Singh Bains, PTV Group on “New features and case studies for PTV software suite for simulation and planning”
 4. A talk by Navin G Ajwani, Ajwani Infrastructure Pvt Ltd
 5. Discussion and Q&A
 6. Closing remarks by Session Chair

Session Chair: Dr. Ashish Verma, Indian Institute for Science, Bangalore; Prof. Huapu Lu, Tsinghua University

- G5_SS1 VMCC 22 **Improvement of transport resilience in the context of big data and mobile network**
- a. Mr. Xin QI - Road network resilience analysis based on simulation data
 - b. Dr. Zhiyuan SUN - Suggestions in daily traffic management to improve the capability to disasters
 - c. Mr. Li HU - Traffic demand analysis and understanding mobility patterns based on mobile phone data
 - d. Ms. Mingyu CHEN - Cases analysis of urban transport resilience in the context of big data
 - e. Ms. Tianshi WANG - Customized Bus Mode Selection and Ticket Price Model Based on Prospect Theory
 - f. Ms. Chia-chun HSU - Cases analysis of airport group resilience ability to disasters

Session Chair: Mohan Dagaonkar, Navi Mumbai Municipal Corporation

- Gen_SS11 VMCC 23 **Transport Infrastructure Delivery: Perspectives from Construction Companies**
- 1) Mr. Navin G Ajwani, Ajwani Infrastructure Ltd.
 - 2) One Official from Ashwini Infra
 - 3) Few more participants from construction companies





Session Chair: Werner Rothengatter, Karlsruhe Institut für Technologie (KIT)

Gen_SS12 VMCC 32

ADBI-HSR (2): Capacity Development for Successfully Constructing and Operating Transport Infrastructure

1. Welcome Remarks – Werner Rothengatter, Emeritus Professor, KIT
2. Presentations:
 - Railway Business in Aging Society and Training Programs for JR East – Michikazu Mukoyama, East Japan Railway Company
 - Skill Frameworks for public transportation in Singapore and its evolution with Singapore's Development – Teik-Soon Looi, Executive Director, Singapore Rail Academy, Land Transport Authority, Singapore
 - Nationwide HSR development in Spain and integration with EU: Overview of CBT programs – Angel Aparicio, Technical University of Madrid
3. Discussion
4. Panel discussion with Speakers and Panellists
Moderator: Werner Rothengatter, Emeritus Professor, KIT
Policy Challenges in capacity development for construction Industry in India – Kalyan Chakravarthy, Pan IIT Alumni Reach for India (PARFI)
Challenges with Civil Engineering Education System in India – Sudhir Misra, Professor, IIT Kanpur
Overview of Capacity Building Programs in Mumbai Metro – Ashwini Bhide, Managing Director, Mumbai Metro Rail Corporation

Session Chair: Dr Nasim Akhtar, CSIR-CRRI, New Delhi

F5_SS2 CE 212

Transport vibration and its control measures

Ground-borne vibration can have significant environmental impact on nearby structures. Excessive vibration can cause damage to track components, cracking of roads, settlement of embankments and damage to nearby structures. Hence research on GBV, especially from underground railways, has gained importance on account of the rapid expansion of metro networks in urban centres. As a result, various regulations are available towards prescribing acceptable levels of vibration in the vicinity of roads, railways and near the tunnels of underground corridors. For a ground with a soft clay or silt, GBV may produce annoyance to people in buildings more than 200 m away from the track,

Objectives

- This special session aims to highlight the problems induced by vibration.
- Vibration propagation through different soil strata
- Impact of vibration in different class of buildings
- Floating chamber design for metro tunnel
- Human response to vibration from different types of road vehicles

Day 3 – Wednesday, 29 May 2019, 9:30 to 11:10

Session Chairs: Thierry Vanelslander, University of Antwerp

A2_SS2 VMCC 02

European Transport Conference meets WCTR: the role of Urban Freight Consolidation Centers

At the workshop, each participant is asked to bring forward one or several two-level distribution center examples with the use of UCC's, for suggestions and views on what stakeholders' preferences are with respect to how a user-friendly interface ideally should look like. From the workshop, all views will be taken along, and an assessment will be made of what is feasible, and who can contribute to actual interface development.

100 min session plan:

1. Introduction and problem setting (2 min.)
2. Overview of the identified UCC examples





3. Discussion by SIG B4 group members and any other WCTR participants (95 min.)
4. Wrap-up (3 min.)

Session Chair: Greg Marsden, ITS Leeds, UK

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- G1_SS1 VMCC 12 **Reforms to deliver smart mobility**
1. Introduction to the Smart Cities Mission and UNDERREFORM project – Professor Greg Marsden, University of Leeds
 2. Assessing the Applicability of Multilevel Governance in the India Context: An Analysis of the Smart Cities Mission Programme, Dr Louise Reardon, University of Birmingham
 3. Experiences on the Ground: Jaipur, Professor Sanjay Gupta, School of Planning and Architecture, Delhi
 4. Experiences on the Ground: Bengaluru, Professor Ashish Verma, Indian Institute of Science, Bengaluru
 5. Delivering transport outside of Smart City Mission – Dr Shankar Vishwanath, Former Director Municipal Corporation of Greater Mumbai
 6. Open discussion

Session Chairs: Aseem Kinra, Copenhagen Business School

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- Gen_SS10 VMCC 21 **Transport policy decisions in the age of Big Data: Exploiting Text and other Semantically Rich Data for Transport Policy and Strategy decision-making**
- On the possibility of short-term traffic forecasting under road network disruption: A case study of Hiroshima, Japan
 - Using social media data for the development of electric vehicle service systems: Can tweets be used to identify current user-needs?
 - Maritime Cyber Security: a case study of Commercial Maritime Shipping in the Gulf of Mexico
 - Integrated Sensor Based Approach for Vehicular Traffic Sensing using Probe Vehicle
 - Examining the potential of textual big data for public policy making on driverless cars: a case study from Denmark

Session Chair: Dr. Wael Alhajyaseen, Qatar University

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- C4_SS2 LC 102 **International Comparison of Traffic Safety Culture: IATSS Project**
1. Prof. Hideki Nakamura - Overview of the project
 2. Prof. Keshuang Tang - Present the results in China
 3. Dr. Wael Alhajyaseen - Present the results in Qatar
 4. Dr. Mohamed Shawky Ahmed - Present the results in Egypt
 5. Dr. Yasuhiro Shiomi - Present the results in Japan

Session Chair: Xiao Luo, Tongji University

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- F3_SS1 CE 208 **New technology and big data used in assessing Quality of Life**
- Quality of Life maximising MaaS supported by AI and pattern recognition
Witsarut Achariyaviriya, Yoshitsugu Hayashi, Hiroyoshi Morita, Hiroyuki Takeshita, Yuji Iwahori, Hiroyasu Usami, Chubu University, Japan
 - Quality of life Assessment of Shanghai and Guangzhou based on multi-source data source
Xiao LUO, Associate Professor, Tongji University, China
 - Public Transport Assessment by using Emotion Analyses
Ye LI, Professor, Tongji University/Vice President, Shanghai Normal University, China
 - Day-to-Day Traffic Congestion Prediction for Urban Expressways Based on Convolutional Neural Network – Keshuang TANG, Professor, Tongji University, China





Session Chair: Dr. Tim Jones, Oxford Brookes University

F4_SS1 CE 209

Cycling in the Global South | Discourse and Dissonance

- Active transport and its politics in Brazil - cycling in the streets of Porto Alegre - Prof. Julio Vargas, Universidade Federal do Rio Grande do Sul, (UFRGS), Porto Alegre, Brazil
- Subversion for change: political and social engagement for promoting liveable cities in Brazil - Aline Barata, Oxford Brookes University, UK
- Cycling in Indian Cities: Invisible, Marginalized and Gendered - Dr. Rutul Joshi, CEPT University, Ahmedabad, India
- Gender, Mobility and Everyday Cycling: The Case of Ahmedabad, India - Rachita Chauhan, CEPT University, Ahmedabad, India/Oxford Brookes University, UK

Session Chair: Karen Lucas, ITS, University of Leeds; Dr. Ashish Verma, Indian Institute for Science, Bangalore

Gen_SS15a CE 110

Meeting the mobility and accessibility needs of informal and slum settlers in developing cities

1. Keynote speaker prof Karen Lucas 'International Network for Transport and Accessibility in Low Income Communities'
2. Ashish Verma 'Maintaining transport equity in the context of developing economies'
3. Daniel Oviedo Hernandez 'Is public transport catering for the informal economy? Examining accessibility and informality in the Bogotá region'
4. Facilitated discussion of session participants' research experiences of working in informal settlements

Session Chair: Binyam Reja and Shomik Mehndiratta, Word Bank

H1_SS1 CE 228

Unleashing the economic potential of cities through urban mobility and corridor development: The experience in China and India

1. Arturo Ardila Gomez (WB): Urban Mobility in China
2. Gerald Ollivier (WB): Urban Mobility in India
3. Bernard Aritua (WB): Corridors in China
4. Matias Herrera Dappe (WB): Corridors in India/South Asia
5. Urban Mobility in India
6. Discussion including Q&A from audience

Session Chair: R. A. Rajeev, IAS, Metropolitan Commissioner, MMRDA

Gen_SS13 Prof. B. Nag Auditorium

Transportation infrastructure in Mumbai Metropolitan Region: Planning and Implementation

Panel discussion by

- (a) Smt. K. Vijayalakshmi, Chief, Transportation and Communications, MMRDA
- (b) Shri. PRK Murthy, Director (Projects) Metro, Metro PIU, MMRDA
- (c) Dr. D. T. Thube, Chief Engineer, Engineering Division, MMRDA
- (d) One official from Mumbai Rail Vikas Corporation Ltd.

Day 3 – Wednesday, 29 May 2019, 11:30 to 13:10

Session Chair: K V K Rao, Indian Institute of Technology Bombay and KE Seetha Ram, Asian Development Bank Institute

Gen_SS17 VMCC 23

ADBHSR (3): Policies and Programs for Station Area Development and Urban Development around Transport Nodes

1. Welcome remarks by Session moderator – Prof KVK Rao, IIT Bombay & KE Seetha Ram, Asian Development Bank Institute
2. Keynote Speech: MLIT/UR Housing, Japan
3. Presentation: Takashi Yamazaki, President, Japan International Consultants for Transportation Co., Ltd. (JIC)
4. Discussion
5. Presentation: Shigehisa Matsumura, Nikken Sekkei Research Institute (NSRI)
6. Discussion





7. Presentations:
 - (a) Shreyas Bharule, The University of Tokyo (remote presentation)
 - (b) Yoshitaka Ishii, Former Chairman, JR Kyushu
8. Discussion and Comments: K V Krishna Rao, Indian Institute of Technology Bombay & KE Seetha Ram, Asian Development Bank Institute

Session Chairs: Ashwin Mahalingam, IIT Madras; G. Raghuram, IIM Bangalore and Thillai A. Rajan, IIT Madras

Gen_SS2 VMCC 32

Public privates' partnerships in Indian Transport sector

100 min Session Plan:

1. Introduction to PPPINDIANET
2. Guest talk
3. Panel Discussion Topic: Indian PPP sector – a continuously evolving context
4. Informal Group discussions and meetings around themes offered by participants.

Session Chair: Ashish Bhaskar, Queensland University of Technology

C3_SS1 LC 002

Transport data analytics

- Building Useful Transportation Models: Retrospective and Futuristic Views on Data and Techniques" - Dr Ramachandran Balakrishna, Caliper Corporation, USA
- Statistical/Data Mining applications in Transport - Associate Prof Anurag Pandey, Cal Poly, USA
- Applications of big data in transport - Dr Chakraborty, Pranamesh, Iowa State University., USA
- Presentation by Dr Ramachandran Balakrishna, Caliper Corporation, USA

Session Chair: Prof. K. S. Reddy, IIT Kharagpur; Moderator: Prof. Manik Barman

I1_SS1 LC 201

Recent advances and concerns in pavements: a special tribute to late Dr. B. B. Pandey

1. Welcome: Prof. Manik Barman/ Prof. K.S. Reddy
2. Presentations
 - (i) Prof. Dharamveer Singh: *Mix Design and Performance Consideration of Bituminous Mix*
 - (ii) Prof. Nikhil Saboo: *Five Year Performance of Gap-Graded Mixes with Crumb Rubber Modified Asphalt Binder*
 - (iii) Prof. Manik Barman: *Innovative Pavement Rehabilitations*
 - (iv) Prof. Umesh Sahoo: *Low cost Durable Village Roads*
 - (v) Mr. Jwalendra Kumar: *Challenges in construction of Rigid Pavement in Hilly Terrain of Western Ghat Karnataka*
 - (vi) Remembrance of Prof. B. B. Pandey: Open to the audience

Session Chair: Karen Lucas, ITS, University of Leeds; Dr. Ashish Verma, Indian Institute for Science, Bangalore

Gen_SS15b CE 110

Meeting the mobility and accessibility needs of informal and slum settlers in developing cities

- A. Mariannne Vanderschuren 'Comparison of the travel and accessibility patterns of formal and informal settlements in South African cities'
- B. Geetam Tiwari 'Gendered perspectives of transport and livelihoods in Delhi'
- C. Shinya Hanoaka
- D. Panel discussion 'Future research issues and data needs for recognizing the travel needs of slum dwellers'

Session Chair: Anthony D May, University of Leeds, UK

Gen_SS19 Prof. B. Nag
Auditorium

Transport policy in response to automation and new mobility services: How best can countries and cities take advantage of new technologies and avoid suffering their adverse consequences?

- Emberger, G and Pfaffenbichler, P: A new approach to quantify the impacts of automated vehicles (AV) on an urban, regional and national scale by adapting MARS (Metropolitan Activity Relocation Simulator), the dynamic integrated land use and transport interaction





model.

- Fujiwara, A et al: How does transport automation shape urban form? Impacts of automated vehicles on residential location choice.
- Paddeu, D: Passengers' perception on first-time use of a shared autonomous shuttle vehicle: new insights for a user-oriented policy strategy for the future of mobility.
- Uteng, TP and Uteng, A: Orienting transport and land use policies to new mobility services and options – Accessibility Mapping through linking Land Use Development Potentials and Planning for Creating Cyclicities (Cycling Cities) in Norway
- Wallsten, A et al: New forms of mobility – policy instruments to achieve social objectives.

Day 3 – Wednesday, 29 May 2019, 14:30 to 16:10

Session Chair: Shri. Soma Vijayakumar, Chief General Manager, Transportation and Airport, CIDCO

Gen_SS16 Prof. B. Nag **Planning implementation and operation of mega structures for international airports**

Auditorium Presentations by

1. Soma Vijayakumar
2. Officials from GVK, Mumbai International Airport

Session Chair: Umberto Guida, UITP

Gen_SS18 VMCC 32 **Connected and automated driving: The future of Public Transport?**

1. Jeremy Yap, Deputy Chief Executive, Public Transport, Policy & Planning (LTA Singapore)
2. Bosch/Daimler or Navya
3. Patricia Villoslada, Autonomous Transport Systems Vice President (Transdev)
4. Katherine Kortum (TRB)
5. Iain Mcbeth (TfL) or Rafael Cuesta (TfGM)
6. Panel discussion and Q/A from audience

Session Chair: Achal Khare, National High-Speed Railway Corporation Limited

Gen_SS20 VMCC 23 **ADBI-HSR (4): Modelling for Estimating Impact of Transport Infrastructure on Quality of Life**

1. Welcoming Remarks by Session Chair
2. Presentations
 - (a) Wider Economic Impacts of Transport Investments in the EU - Werner Rothengatter, Karlsruher Institut für Technologies (KIT)
 - (b) Big data for social impact - Ryosuke Shibasaki, The University of Tokyo
 - (c) Comparison of Transport Projects in France, Germany, UK and Japan - Noriyasu Kachi, Toyo University
3. Comments and Discussions
4. Presentations
 - (a) Data-driven modeling of urban resilience - Satish Ukkusuri, Purdue University <remote presentation>
 - (b) Spatiotemporal impact of transport in Japan - Satoshi Miyazawa, The University of Tokyo
 - (c) Analysing Impacts of Mumbai - Ahmadabad HSR on Citizen's QOL - Yoshitsugu Hayashi, Chubu University and Akash Dilip Yewale, Indian Institute of Technology Bombay
5. Comments and closing remarks - K V K Rao, Indian Institute of Technology Bombay

Session Chair: Professor Neville Stanton, Transportation Research Group, University of Southampton, UK

C4_SS3 LC 102 **A sociotechnical approach to road safety: International perspectives**

- Introduction to the STARS project and its members
Presented by Professor Neville Stanton (University of Southampton)
- Factors behind the scene: Case study of a highway crash investigation in Bangladesh using Accimap approach
Presented by Shahwenaz Hasanat-E-Rabbi (Bangladesh University of Engineering Technology, Dhaka)
- E-bikes in China, the advantages and disadvantages



Presented by Linyang Wang (Tsinghua University, Beijing)

- Root causes of fatal road traffic accidents involving motor cycles, private cars, and buses in Kenya: Focus on 3 case studies
- Presented by Sylvia Anyika (Strathmore University, Nairobi)
- Attitudes toward traffic safety, risk perceptions, pedestrian behaviours and accident involvements in Vietnam
Presented by Dr Do Duy Dinh (National University of Civil Engineering, Hanoi)
- International collaboration in road safety research; Challenges faced and lessons learned
Presented by Dr Rich C. McIlroy (University of Southampton)

Day 3 – Wednesday, 29 May 2019, 16:30 to 18:10

Session Chair: Umberto Guida, UITP

Gen_SS22 VMCC 22 **The electrification of urban mobility: The transition to a clean and sustainable urban transport**

1. Europe – Operational Excellence of e-bus systems: Transdev, VDL
2. The future of e-Bus Systems: BRT example – Daimler
3. Relevant representatives of China, India, USA and Latin America OEMs and Operators
4. Panel discussion and Q/A from audience

Session Chair: Shinya Hanaoka, Tokyo Institute of Technology; Ryuichi Shibasaki, University of Tokyo

H1_SS2 CE 228 **Towards better intermodal connectivity of freight transport in India: an example of Dedicated Freight Corridor**

1. One person from DFCCIL (Dedicated Freight Corridor Corporation of India Ltd.): Current status and expected impacts of DFC project
2. One person from JNPT: Improvement of container terminals in JNPT and expectations for DFC
3. Dr. Tomoya Kawasaki (Tokyo Institute of Technology) & Prof. Ryuichi Shibasaki: Port competition in the west coast of India and future simulation by modelling international logistics
4. Dr. Kenmei Tsubota (Institute of Developing Economies, JETRO): Economic impact of logistics infrastructure investment in India using the Geographical Simulation Model
5. Discussion including Q&A from audience

Day 4 – Thursday, 30 May 2019, 09:30 to 11:10

Session Chair: KE Seetha Ram, Asian Development Bank Institute

Gen_SS23 Prof. B. Nag Auditorium **ADB-HSR (5) High-Level Panel Discussion on Messages for Policy Makers for Developing and Operating Transport Infrastructure**

1. Welcome remarks – H.E. Kenji Hiramatsu, Japanese Ambassador to India
2. Keynote Speech by Minister
3. Panelists
 1. Naoyuki Yoshino, Dean, ADBI (Remote Presentation)
 2. Tae Hoon Oum, University of British Columbia
 3. Haixiao Pan, Tongji University
 4. Werner Rothengatter, Karlsruher Institut für Technologie, Germany
 5. Yoshitsugu Hayashi, Chubu University
 6. Achal Khare, Managing Director, NHSRCL, India
4. Panel discussion and Q&A
5. Closing Remarks – Satoru Osanai, President, Japan Railway Technical Service (JARTS)





Session Chair: Dr Louise Reardon, University of Birmingham and Professor Greg Marsden, ITS Leeds

- G1_SS2 VMCC 12 **Integrated Urban Transport Bodies are essential to deliver sustainable outcomes - A debate**
This special session will take the format of a debate, chaired by Professor Maria Attard, University of Malta
1. Speaking for the Motion: Dr Louise Reardon, University of Birmingham and Steve Perkins, International Transport Forum
 2. Speaking against the Motion: Professor Greg Marsden, University of Leeds and Claus Sørensen, VTI

Session Chair: Thiago Guimarães Rodrigues, University of Leeds

- G4_SS1 VMCC 21 **Video session: "On the way to the doctor – How poor people gain access to healthcare in a Brazilian city"**
1. Background on the video production (20 min) - The first part of the session consists in a short presentation aimed at contextualizing the production of this documentary within the research project on accessibility to healthcare developed at the University of Leeds.
 2. Video exhibition (20 min) - The second part of the session consists in the exhibition of the video documentary. This video, produced by communitarian video-makers, captures views and experiences of dwellers of poor neighborhoods of Sao Paulo on accessibility to healthcare and translates some messages key messages of transport poverty in a comprehensible manner to a broader audience.
 3. Panel discussion (40 min) - Following the video session, panelists will be asked to analyze the key messages of the documentary in the light of the recent research and policy advancements in the field of transport and social exclusion. Transport researchers to be invited to comment on selected aspects of the video and relate to their experiences are:
 - Professor Karen Lucas, Chair in Transport and Social Analysis in the Institute for Transport Studies, University of Leeds
 - Dr Daniel Oviedo Hernandez, Research Associate of the Development Planning Unit (University College London)
 4. Interaction with the audience (20 min) - The final part consists in an interactive session with the audience, e.g. in a Q&A format.

