

**ICPT 2020**

# **INTERNATIONAL E-CONFERENCE ON PANDEMICS AND TRANSPORT POLICY - FOR A HARMONIZED WORLD -**

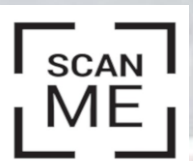
## **December 7 – 11, 2020**

**December 7 – 11, 2020**

Japan Standard Time:

14:30/15:00 -17:30/18:00 & 21:00-24:00 (00:30)

<https://home.hiroshima-u.ac.jp/~zjy/international-e-conference-on-pandemics-transport-policy/>



**Venue: Online Meeting; Zoom will be used, as follows.**

[Meeting ID: 814 1486 0369; Passcode: 294234]

<https://us02web.zoom.us/j/81414860369?pwd=OUhoU3VpMzkrNUF0aTlwdXlHeUFUUT09>

**Registration: Not required;  
Participation fee: Free of charge**

**Conference Chairs:**

**Yoshitsugu Hayashi (Chair of WCTRS COVID-19 Task Force)  
& Junyi Zhang (Co-chair of WCTRS COVID-19 Task Force)**

# MESSAGE

The COVID-19 pandemic is an unprecedented global crisis. COVID-19 has had a variety of impacts on the transport sector, such as the decline of passengers on public transport and airplanes, modal shift to private cars, the bankruptcy of public transport operators and airlines, and remarkable changes in logistics and supply chains. On the other hand, it is unclear how transport has contributed to the spread of COVID-19, and therefore questions remain about how transport policy can help prevent the further spread of COVID-19. Such a pandemic is not the first case in human history. Recent examples include the Ebola outbreak in 2014, the Ebola hemorrhagic fever in 2014, the H1N1 influenza virus in 2009, the 2005-2016 Zika fever, and SARS in 2003. Unfortunately, it seems that lessons from history have not been well learned. Such pandemics are expected to occur repeatedly in the future.

In order to fight COVID-19 and prepare for future pandemics, it is extremely important to exchange research findings about what are knowns, what are unknowns, what should be done, and what should not be done, about COVID-19 and other pandemics. Experts from the transport, logistics, supply chains, regional development, urban planning, and tourism sectors from different parts of the world must pool their knowledge. To facilitate this exchange, the WCTRS COVID-19 Task Force, established in April 2020, decided to organize an International e-Conference on Pandemics and Transport Policy from December 7 to 11, 2020. We encourage the sharing of lessons learned from history and best practices and/or failures, including, by implementing original surveys and making innovative analyses based on Big Data and Open Data, by conducting collaborative research between transport and public health researchers, by developing innovative policymaking methodologies, by making cross-country comparisons of policy measures, and by making policy recommendations of both immediate measures and long-term strategies. This e-conference will demonstrate a new way of promoting Open Science. We welcome your contributions and participation.



World Conference on Transport  
Research Society (WCTRS)

Conference Organizers  
**WCTRS COVID-19 Task Force**

Center of Asian Sustainable Mobility Research (ASMO),  
Hiroshima University  
Center for Sustainable Development and Global Smart City  
(SDGS-City), Chubu University

*In collaboration with*

**JST RISTEX Grant Number JPMJRX20J6 and  
JST J-RAPID Grant Number JPMJRR2006, Japan**



**RISTEX** 社会技術研究開発センター  
Research Institute of Science and Technology for Society



Center of Asian  
Sustainable Mobility Research,  
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**CHUBU UNIVERSITY**



**HIROSHIMA UNIVERSITY**

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Cover image: <https://en.wikipedia.org/wiki/Tokyo>

# PROGRAM

## **Notes**

- The time periods of the following presentations are fixed. The order of presentations at each session may change.
- Each presentation is assigned 25 minutes (18-20 min for talk and 5-7 min for Q&A). In addition, each session is assigned 25 minutes for overall discussion.

All updates of the conference program should refer to the following link, or scan the QR code below  
<https://home.hiroshima-u.ac.jp/~zjy/international-e-conference-on-pandemics-transport-policy/>



## Monday, December 7

**Opening Session: 14:30 – 14:55 (JST)**, chaired by Fuyo (Jenny) Yamamoto, Hiroshima University  
*Yoshitsugu Hayashi, Chair of WCTRS COVID-19 Task Force, Chubu University: Welcome speech*

*Junyi Zhang, Co-chair of WCTRS COVID-19 Task Force, Hiroshima University: Introduction of the ICPT 2020 e-Conference and Report on the activities by the WCTRS COVID-19 Task Force*

**Session 1 – Public and Air Transport | 15:00 – 18:00 (JST)** *Session Chair: Werner Rothengatter, Karlsruhe Institute of Technology*

**15:00-15:25** *Werner Rothengatter, Karlsruhe Institute of Technology; Junyi Zhang, Hiroshima University; Yoshitsugu Hayashi; Chubu University; Anastasiia Nosach, UBC, Canada; Kun Wang, University of International Business and Economics, China; Tae Hoon Oum, UBC, Canada: Pandemic waves and the time after Covid 19 – Consequences for the transport sector*

**15:25-15:50** *Mukti Advani, CSIR – Central Road Research Institute; Velmurugan Senathipathi, CSIR – Central Road Research Institute; Padma Seetharaman, CSIR – Central Road Research Institute: Impact of COVID-19 on the demand of road based public transport and the potential improvement through infrastructure and service changes in Delhi*

**15:50-16:15** *Masayuki Fukumoto, Nagoya University; Yuto Ihara, Waseda University; Tomohiko Isobe, Chubu University: Impacts of COVID-19 on local public transport industry and support measures in Japan*

**16:15-16:20** break

**16:20-16:45** *Nena Adrienne, Independent Scholar; Lucy Budd, De Montfort University; Stephen Ison, De Montfort University: Grounded aircraft: An airfield operations perspective of the challenges of resuming flights post-COVID*

**16:45-17:10** *Javier Gundelfinger, University of Cantabria; Xosé Luís Fernández, University of Cantabria; Pablo Coto Millán, University of Cantabria: Has the Covid-19 changed airlines' price-setting strategies to tourist destinations?*

**17:10-17:35** *Lucy Budd, De Montfort University; Stephen Ison, De Montfort University: Responsible transport: A post-COVID agenda for future transport policy and practice*

**17:35-18:00** Overall discussion

**Session 2 – Risk-sensitive Social Distancing and Design | 21:00 – 24:00 (JST)** *Session Chair: Maria Attard, University of Malta, Malta*

**21:00-21:25** *Sigal Kaplan, The Hebrew University of Jerusalem: Transit use reduction following COVID-19: the effect of awareness, threat appraisal, proactive coping, and organizational trust*

**21:25-21:50** *Hongxiang Ding, Hiroshima University; Junyi Zhang, Hiroshima University; Saori Kashima, Hiroshima University; Runsen Zhang, Hiroshima University: The role of risk communication in mitigating the spread of COVID-19 in Japan: An analysis by building a dynamic Scobit model*

**21:50-22:15** *Matthew Burke, Newcastle University; Margaret Bell, Newcastle University; Dilum Dissanayake, Newcastle University: Cycling volumes during the COVID-19 Pandemic and how it can inform future investment in cycling infrastructure; A Case Study in North East England*

**22:15-22:20** break

**22:20-22:45** *Hiroyoshi Morita, Nippon Engineering Consultants, Co. Ltd., Japan; Shinichiro Nakamura, Nagoya University, Japan: The Impact of Social Distancing on Urban Communities – Reality and Future*

**22:45-23:10** *Junyi Zhang, Hiroshima University: PASS approach for transport policymaking that deals with COVID-19 and future pandemics*

**23:10-23:35** *Hongxiang Ding, Hiroshima University, Junyi Zhang, Hiroshima University: Examining the effects of PASS-based and LASTING-based COVID-19 policy measures on changes in intercity and intracity behavioral choices in Japan by building a dynamic structural equation model with panel data*

**23:35-24:00** Overall discussion

## Tuesday, December 8

**Session 3 – Behavioral Policy in Passenger Transport | 14:30 – 17:30 (JST)** *Session Chair: Runsen Zhang, Hiroshima University*

**14:30-14:55** *Hiroyuki Takeshita, Yoshitsugu Hayashi, Chubu University; Junyi Zhang, Hiroshima University; Witsarut Achariyaviriya, Yingting Ma, Yaohong Hu, Hang Yang, Chubu University: International comparison on policies and behavioral transformation for COVID-19 pandemic*

**14:55-15:20** *Xin Dou, Wuhan University of Technology; Ming Zhong, Wuhan University of Technology; Xiaofeng Pan, Wuhan University of Technology; Liping Fu, Wuhan University of Technology: Impact of COVID-19 on metro system in Wuhan: Preliminary Results from passengers' smart card data*

**15:20-15:45** *Niaz Mahmud Zafri, Bangladesh University of Engineering and Technology; Asif Khan, Bangladesh University of Engineering and Technology; Shaila Jamal, McMaster University; Bhuiyan Monwar Alam, University of Toledo: Impacts of COVID-19 Pandemic on Active Transport in Bangladesh*

**15:45-15:50** break

**15:50-16:15** *Teddy Forscher, UC Berkeley; Emerita Elizabeth Deakin, UC Berkeley; Susan Shaheen, UC Berkeley: Consumer shopping & shipping decisions and public infrastructure policy implications in a pandemic: What will stick? A Case Study of the Sacramento Region*

**16:15-16:40** *Michiel Voes, Universiteit Antwerpen: The effect of COVID-19 on passenger rail transport in Belgium*

**16:40-17:05** *Hirohito Ito, Tokyo Institute of Technology; Shinya Hanaoka, Tokyo Institute of Technology: Measures of ports against the resumption of cruise ships under COVID-19 outbreak*

**17:05-17:30** Overall discussion

**Session 4 – Accessibility, Lifestyle Changes, and Equity | 21:00 – 24:00 (JST)** *Session Chair: Saori Kashima, Hiroshima University*

**21:00-21:25** *Hiroki Yoshida, Hiroshima University; Junyi Zhang, Hiroshima University; Saori Kashima, Hiroshima University; Yoshitsugu Hayashi, Chubu University; Runsen Zhang, Hiroshima University: Human mobility, transport accessibility, and the COVID-19 pandemic: A case study in Japan*

**21:25-21:50** *Saori Kashima, Hiroshima University; Junyi Zhang, Hiroshima University: Temporal trends in voluntary behavior changes at the early stage of COVID-19 outbreak in Japan*

**21:50-22:15** *Guopeng Li, Beijing Jiaotong University; Huiying Sun, Beijing Jiaotong University; Zhibin Tan, Beijing Jiaotong University: Information, risk perception and epidemic prevention and control —The perspective of social networks*

**22:15-22:20** break

**22:20-22:45** *Juan Antonio Carrasco, Universidad de Concepcion: Mobility trends in Chile in a COVID-19 year: The role of income inequality*

**22:45-23:10** *Xiaohe Zhang, Tongji University; Haixiao Pan, Tongji University: Work patterns and commuting travel during lockdown: Evidence from Shanghai*

**23:10-23:35** *Ricardo Tomás, Campus Universitário de Santiago, Portugal; Paulo Fernandes, Campus Universitário de Santiago; Joaquim Macedo, Campus Universitário de Santiago; Margarida C. Coelho, Campus Universitário de Santiago: Carpooling as an Immediate Strategy to Urban Mobility During Public Health Threats: A Case Study in a University Campus*

**23:35-24:00** Overall discussion

## Wednesday, December 9

**Session 5 – Spatial Relationship and Behavior | 14:30 – 17:30 (JST)** *Session Chair: Thierry Vanelander, University of Antwerp*

**14:30-14:55** *Kaili Wang, Yicong Liu, Patrick Loa, Sk. Md. Mashrur, Khandker Nurul Habib, University of Toronto: COVID-19 influenced Households' Interrupted Travel Schedules (COVHITS) Survey: A 2-Cycle Revealed Preference Study, in Greater Toronto*

**14:55-15:20** *Junyi Zhang, Hiroshima University; Baraa Alhakim, Hongxiang Ding, Hiroshima University: Capturing early-stage responses of Japanese people to the COVID-19 pandemic based on a life-oriented retrospective panel survey*

**15:20-15:45** *Martina Fazio, University of Catania; Alessandro Pluchino, University of Catania, INFN Section of Catania; Giuseppe Inturri, University of Catania; Michela Le Pira, University of Catania; Nadia Giuffrida, University of Catania; Matteo Ignaccolo, University of Catania: Exploring the impact of mobility restrictions on the COVID-19 spreading through an agent-based approach*

**15:45-15:50** break

**15:50-16:15** *Thierry Vanelander, University of Antwerp: Issues and policy reactions in maritime transport chains under COVID-19*

**16:15-16:40** *Wael Alhajyaseen, Qatar University: Impacts of the Covid-19 pandemic on past and future individual travel behavior in the state of Qatar*

**16:40-17:05** *Shinichiro Nakamura, Nagoya University, Japan; Hiroyoshi Morita, Nippon Engineering Consultants, Co. Ltd., Japan: Changing roles of urban rivers and water use in creating social distancing sensitive communities under COVID-19 in Japan*

**17:05-17:30** Overall discussion

**Session 6 – Change in Urban Transport and Sustainability | 21:00 – 24:00 (JST)** *Session Chair: Francesca Pagliara, University of Naples Federico II*

**21:00-21:25** *Varameth Vichiensan, Kasetsart University; Yoshitsugu Hayashi, Chubu University: Impact of COVID-19 to urban rail transit in Bangkok*

**21:25-21:50** *Maria Vittoria Corazza, Sapienza University, Italy; Guenter Emberger – Vienna University of Technology, Austria; Vilmos Oszter, KTI Institute for Transport Sciences, Hungary; Ana Peido, University of Zadar, Croatia; Takeru Shibayama, Vienna University of Technology, Austria; Yacan Wang, Beijing Jiaotong University, China: COVID-19, public transport and measures towards sustainable transport*

**21:50-22:15** *Jakub Taczanowski, Institute of Geography and Spatial Management, Jagiellonian University in Cracow; Marcin Król, Warsaw School of Economics: Prospects for public transport in the aftermath of the COVID-19 pandemic: The first reports and policy proposals for Central and Eastern Europe*

**22:15-22:20** break

**22:20-22:45** *Francesca Pagliara, University of Naples Federico II: Impacts of Covid-19 Pandemic on travel behaviour and sustainable transport policies: Some evidence from Italy*

**22:45-23:10** *Fabio Hirschhorn, Delft University of Technology; Wijnand Veeneman, Delft University of Technology, The Netherlands: A multi-level governance rescue for public transport during the COVID-19 crisis in The Netherlands*

**23:10-23:35** *Joaquim Miranda Sarmiento, Universidade de Lisboa; Carlos Oliveira Cruz, Universidade de Lisboa: The impact of the pandemics of Covid-19 on the level of traffic and the management of a highway: the operator perspective*

**23:35-24:00** Overall discussion

## Thursday, December 10

**Session 7 – Policy Interventions in Transport and Tourism | 14:30 – 17:30 (JST)** *Session Chair: Geoffrey Clifton, The University of Sydney*

**14:30-14:55** *Geoffrey Clifton, The University of Sydney; John Nelson, The University of Sydney; David Hensher, The University of Sydney: Transport policy implications of COVID-19: Early evidence from Australia*

**14:55-15:20** *Junghwa Kim, Kyonggi University; Kim Keun Woo, Daegu Digital Industry Promotion Agency: In the COVID-19 era, exploring urban traffic behavior by spatial and psychological properties: Evidence from Daegu City in Korea*

**15:20-15:45** *Bhargab Maitra, Indian Institute of Technology Kharagpur; Kinjal Bhattacharyya, Indian Institute of Technology Kharagpur; Saurabh Dandapat, Indian Institute of Technology Kharagpur; Sai Kiran Annam, Indian Institute of Technology Kharagpur; Kaustubh Saysardar, Indian Institute of Technology Kharagpur: Policy Interventions during COVID 19 outbreak and their impacts on activity and travel in India*

**15:45-15:50** break

**15:50-16:15** *Javier Cifuentes-Faura, University of Murcia; Ursula Faura-Martinez, University of Murcia: Situation of European airlines caused by COVID-19: restrictions, government subsidies and future prospects*

**16:15-16:40** *Shuang Ma, The University of Tokyo; Shuangjin Li, Hiroshima University; Junyi Zhang, Hiroshima University: Policy optimization for pandemic response using system dynamics in highly tourism-dependent developing countries: A case study on COVID-19 in Cambodia*

**16:40-17:05** *Linghan Zhang, Sun Yat-sen University, China; Rui Liu, Hiroshima University; Junyi Zhang, Hiroshima University, Fengzhi Sun, Shandong Normal University, China: Tourism policy responses to COVID-19 and tourism recovery: An overview of China*

**17:05-17:30** Overall discussion

**Session 8 – Social Distancing Policy | 21:00 – 24:00 (JST)** Session Chair: Yoshitsugu Hayashi, Chubu University

**21:00-21:25** Yoshitsugu Hayashi, Chubu University; Junyi Zhang, Hiroshima University: Social distancing as an important part of transport, social capital and quality of life

**21:25-21:50** Shuangjin Li, Hiroshima University; Shuang Ma, The University of Tokyo; Junyi Zhang, Hiroshima University: Association of built environment attributes with the spread of COVID-19 at its initial stage in China

**21:50-22:15** Junyi Zhang, Hongxiang Ding, Mae Grace Alenabo Dinglasa, Canh Xuan Do, Hyewon Namgung, Hong T. A. Nguyen, Setyo Nugroho, Ratu Veby Renita, Lon Virakvichetra, Hiroki Yoshida, Hiroshima University; Yoshitsugu Hayashi, Chubu University, Japan: Comparisons of PASS-based transport policy measures for addressing the impacts of COVID-19 in Asian countries

**22:15-22:20** break

**22:20-22:45** Zhao Zhang, Beihang University: Resilience of national highway transportation system and traffic control policy under the outbreak of COVID-19 in China

**22:45-23:10** Yiyuan Lei, New York University; Kaan Ozbay, New York University: A robust analysis of the long-term impacts of the stay-at-home policy on taxi and Citi bike usage: A case study of Manhattan

**23:10-23:35** Motuba Diomo, North Dakota State University; William Nganje, North Dakota State University; Muhammad Asif Khan, National University of Sciences and Technology, Pakistan; Mirzazadeh Babak, North Dakota State University: COVID-19: Investigating heterogeneity and the effectiveness of the myriad of statewide policy decisions on travel reductions in the U.S

**23:35-24:00** Overall discussion

## Friday, December 11

**Session 9 – New Normal and Long-term Impacts | 14:30 – 17:30 (JST)** Session Chair: Hitomi Nakanishi, University of Canberra

**14:30-14:55** Madeleine Parker, UC Berkeley; Meiqing Li, UC Berkeley; Mohamed Amine Bouzaghrane, UC Berkeley; Hassan Obeid, UC Berkeley; Drake Hayes, UC Berkeley; Karen Trapenberg Frick, UC Berkeley; Daniel Rodriguez, UC Berkeley; Joan Walker, UC Berkeley; Raja Sengupta, UC Berkeley; Daniel Chatman, UC Berkeley: Transit in the era of COVID-19: Public transit policies and travel behavior in the COVID-19 recovery period

**14:55-15:20** Qiang Zhang, Beijing Jiaotong University: The economic effects of traffic consumption and policy evaluation under the COVID-19 pandemic in China: A CGE analysis

**15:20-15:45** Md Asif Hasan Anik, Dalhousie University; Muhammad Ahsanul Habib, Dalhousie University: Examining the long term impacts of COVID-19 using an integrated transport and land-use modelling system

**15:45-15:50** break

**15:50-16:15** Padma Seetharaman, CSIR – CRRI; Velmurugan Senathipathi, CSIR – CRRI; Vikas Sharma, CSIR – CRRI; Mukti Advani, Vellore Institute of Technology: Evaluation of air quality in times of COVID-19 and its impacts on road traffic

**16:15-16:40** Runsen Zhang, Hiroshima University; Junyi Zhang, Hiroshima university: Long-term pathways to deep decarbonization of transport sector in the post-COVID's new normal

**16:40-17:05** James Leather, Asian Development Bank: ADB Guidance Note: Transport and COVID-19 — Bounce back strategy and recommendations to support a more sustainable new normal

**17:05-17:30** Overall discussion

**Session 10 – Nationwide Policy Responses | 21:00 – 24:00 (JST)** *Session Chair: Greg Marsden, University of Leeds*

**21:00-21:25** *Greg Marsden, University of Leeds; Iain Docherty, University of Stirling; Jillian Anable, University of Leeds: Windows of opportunity or path dependencies? Governance responses to the COVID-19 pandemic in UK transport policy*

**21:25-21:50** *Velmurugan Senathipathi, CSIR – CRRRI; Mukti Advani, CSIR – CRRRI; Padma Seetharaman, CSIR – CRRRI: Impacts of COVID-19 on the transport sector and measures as well as recommendations of policies and future research: Report on India*

**21:50-22:15** *Ozay Ozaydin, Dogus University; Fusun Ulengin, Sabanci University: Impacts of COVID-19 on the transport sector and measures as well as recommendations of policies and future research: A Report on Turkey*

**22:15-22:20** break

**22:20-22:45** *Huiyu Zhou, Beijing Jiaotong University; Yacan Wang, Beijing Jiaotong University; Joseph R Huscroft, North Carolina A&T State University: Impacts of COVID-19 on the transportation sector: A report on China*

**22:45-23:10** *Jielun Liu, National University of Singapore; Ghim Ping Ong, National University of Singapore; Junxiong Pang, National University of Singapore; Leonard Lee, National University of Singapore: Understanding the potential impact on pandemics on mobility and the transport sector: A case study of Singapore during COVID-19*

**23:10-23:35** *Akito Murayama, The University of Tokyo: The potential impacts of COVID-19 on “social distancing sensitive” urban and regional structures in Japan*

**23:35-24:00** Overall discussion

**Closing Session | 00:00 – 00:30 (JST)**

Junyi Zhang & Yoshitsugu Hayashi: A summary of ICPT2020 and future perspective



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**- for a harmonized world -**  
**December 7 – 11, 2020**



# List of authors

(ordered based on the first names)

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Anastasiia Nosach	Jakub Taczanowski	Matteo Ignaccolo	Sigal Kaplan
Asif Khan	James Leather	Matthew Burke	Sk. Md. Mashrur
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Hirohito Ito	Lon Virakvichetra	Runsen Zhang	Yingting Ma
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# CONFERENCE ORGANIZING COMMITTEE

## **Chairs:**

*Yoshitsugu Hayashi (Chair of WCTRS COVID-19 Task Force) &  
Junyi Zhang (Co-chair of WCTRS COVID-19 Task Force)*

## **General Secretary**

Saori Kashima, Hiroshima University, Japan  
Runsen Zhang, Hiroshima University, Japan  
Linghan Zhang, Sun Yat-sen University, China  
Hiroyuki Takeshita, Chubu University, Japan

## **Organizing committee members**

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Hitomi Nakanishi, Canberra University, Australia  
Thierry Vanellander, University of Antwerp, Belgium  
Juan A. Carrasco, Universidad de Concepción, Chile  
Yacan Wang, Beijing Jiaotong University, China  
Velmurugan Senathipathi, CSIR – Central Road Research Institute, India  
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Akito Murayama, The University of Tokyo, Japan  
Shinichiro Nakamura, Nagoya University, Japan

## **Conference program managers**

Hongxiang Ding, a doctoral candidate, Hiroshima University, Japan  
Shuangjin Li, a doctoral candidate, Hiroshima University, Japan  
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Setyo Nugroho, a doctoral candidate, Hiroshima University, Japan  
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## **Designer of the conference logo**

Setyo Nugroho, a doctoral candidate in Mobilities and Urban Policy Lab, Hiroshima University, Japan



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