2022.6-10月

系列活动



Climate Change Challenges

应对气候变化国际交通研讨会





















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Climate Change Challenges

International Transport Webinars

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Resilience of Urban Transportation Systems – Strength in Diversification

The urban transportation network is an integrated network in which multiple transportation modes are intertwined and interacted with each other. In the face of the impact of urban emergencies on the transportation system, this webinar aims to decouple the resilience relationship between the multi-layer cyber-physical networks of urban transportation, expound the networks' Risk-Resilience-Sustainability linkage characteristics, put forward evaluation tools and technical methods for integrated network resilience, and improve urban multiple network resilience, etc. The main topics of this webinar will focus on the theoretical and practical aspects of urban transportation system resilience evaluation methods, enhancement measures, emergency response, and decision support.

> JULY 27 8:00 AM US EDT 8:00 PM BEIJING TIME 2:00 PM BRUSSELS TIME

Agenda

Opening

8:00 - 8:05 / 2:00 - 2:05

Thematic Introduction

Presentations

Panel Discussion

Conclusion

8:05 - 8:15/ 2:05 - 2:15

8:15 - 9:55 / 2:15 - 3:55

9:55 - 10:25 / 3:55 - 4:25

10:25 - 10:30 / 4:25 - 4:30



Opening

Christos S. Xenophontos

Caroline Alméras

Moderator

Welcoming Remark



Caroline Alméras

Secretary-General of ECTRI

Caroline Alm é ras is a senior European public affairs specialist with +20 years' experience in EU public relations, legal advising and advocacy in the transport research field. After working several years as a lawyer at the European Commission then at the French Environment and Energy Management Agency

(ADEME), she joined the European Conference of Transport Research Institutes (ECTRI) in 2003 in charge of developing the activities of the association. In 2009, she was recruited as Deputy Director for European and International affairs at the French Institute for Transport Research (INRETS, now University Gustave Eiffel). The year after she was appointed Secretary General of ECTRI. From then, she is responsible for the strategic development, representation and overall management of the ECTRI Association. In this capacity, she is also actively engaged in several European projects such as SETRIS, SKILLFUL, BE OPEN, TRA and TRAVISIONS where she coordinates several activities. In April 2018, she was appointed member of the TRB International Cooperation Committee (A0010) and a year later co-chair of that Committee. In April 2020, she became co-chair of the newly created TRB International Coordinating Council (A0020C).



Christos S. Xenophontos

Co-chair of International Coordinating Council, TRB

Christos S. Xenophontos, Assistant Director for the Rhode Island Department of Transportation (RIDOT), and co-chair of TRB's International Coordinating Council has more than 35 years of experience in the Transportation field as an Engineer, Project Manager and Administrator. He currently leads RIDOT's

Research and Innovation initiatives, including the Little Roady pilot project on Connected and Autonomous Vehicles. Christos has been particularly active, both at the national and international level, in the area of Performance Management and has a keen interest on the impact of emerging and disruptive technologies on the performance of Transport agencies.

Prof. Wu Jianjun

Presentations	<mark>8:15 - 9:55 / 2:15 - 3:55</mark>
Prof. Xu Xiangdong	Planning a Resilient Transportation Network via
	Redundancy Design: Methodology and Applications
Dr. Alexandra Millonig	A Sufficient Path to Climate Neutral Transport
Prof. Li Ruiqi	Emergence of Scaling in Dockless Bike-Sharing Systems
Nicole Boothman Shepard	Effective Practices for Disaster Readiness
Xu Yingying	Proactive Resilience Building through Route Diversity: a
	Close Look at the Metro System from the Travelers'
	Perspective



Prof. Wu Jianjun

Deputy Director of the State Key Lab of Rail Traffic Control & Safety, Deputy Director of the Key Laboratory of Transport Industry of Big Data Application Technologies for Comprehensive Transport, Executive Deputy Secretary General of the Society of Management Science and Engineering

Ph.D., Professor (T2), Doctoral Supervisor. His main research fields include urban (rail) transport system management and optimization; complexity of urban (rail) transport system; traffic big data analysis; development and application of urban rail transit operation management system platform. He is a winner of the National Science Fund for Distinguished Young Scholars and is supported by the New Century Excellent Talents Support Program of the Ministry of Education. His dissertation was listed as the National Excellent Doctoral Dissertation, and presides over the "111" Innovation and Talent Introduction Base of Transportation System Science and Engineering. He is also Director of the Transportation Management Branch and Executive Director of the Systems Engineering Society of China, Vice President of the Network Science Branch and Director of the Chinese Society of Optimization, Overall Planning and Economic Mathematics, Deputy Editor in Chief of China Journal of Highway and Transport, Editorial Board Member of Journal of Management Science. He is invited reviewer of TRANSPORTATION RESEARCH PART A\B\C\E, EJOR, TRANSPORT POLICY and other famous academic journals at home and abroad. He has published and received more than 200 academic papers, and has successively presided over major national, provincial and ministerial projects of the National Natural Science Foundation of China, National Science Fund for Distinguished Young Scholars, etc. As a senior researcher, he has participated in numerous national program projects The research achievements have won 5 provincial and ministerial awards. He has published 3 works, authorized 31 national invention patents, and owns 10 software copyrights, which have been applied in the government and enterprises.



Prof. Xu Xiangdong

Professor, Tongji University

He has been working on various aspects of transportation network analysis, including travel choice behavioral modeling and network optimization, transportation network reliability/ redundancy/ vulnerability/ resiliency analysis, network state estimation and sensor location, etc. He has published over 40

refereed papers in leading international journals such as Transportation Research Part A/B/C/D/E and the prestigious International Symposium on Transportation and Traffic Theory (ISTTT). Dr. Xu is an editorial board member of multiple international and domestic journals and also the International Scientific Committee Member of the International Symposium on Transport Network Resilience (INSTR).



Dr. Alexandra Millonig

Senior Scientist at the Austrian Institute of Technology (AIT) and Lead Moderator of ECTRI Mobility Thematic Group

Dr. Alexandra Millonig is with the Digital Resilient Cities (DRC) team at AIT Austrian Institute of Technology. As Senior Scientist, Alexandra is responsible for the conceptual design, implementation and management of national and

international research projects related to cross-sectoral topics regarding human factors in the area of mobility and climate change. She holds a master's degree in Urban and Regional Planning and a PhD in sociology and cartography from the Vienna University of Technology. Her research areas include behaviour influences, behaviour change and target groups, climate mitigation and adaptation, impact assessment and transformation pathways. She is actively involved in national and international associations, e.g. leading the Thematic Group Mobility at ECTRI.



Prof. Li Ruiqi

Associate Professor, College of Information Science and Technology, Beijing University of Chemical Technology and Director of UrbanNet Lab

He got his Bachelor degree in Computer Science at University of Electronic Science and Technology of China. He obtained his PhD degree in Systems

Science at Beijing Normal University, and was a visiting PhD at Department of Civil Environmental Engineering at MIT, and a visiting scholar at Department of Physics at Boston University. His main research interests cover urban modeling and computation, complex network, human mobility, and epidemic spreading dynamics. He established a UrbanNet Lab at BUCT, which focus on gaining better understanding the urban systems with network science, big data, and advanced technologies. He also serves as an associate editor for Humanities & Social Sciences Communications, committee members of Activity Group on Systems Theory of the Systems Engineering Society of China, and Activity Group on Social Computing and Social Intelligence of CAAI, PC member of Conference on Systems Science (CCS) 2019. He has published around 20 papers on peer-reviewed journals, including Nature Communications, Physical Review E, Scientific Reports, CEUS, Journal of Cleaner Production, IEEE Access, Physica A. He is also reviewers for some high profile journals and top conferences, including Nature Human Behaviour, Expert Systems with Applications, Technological Forecasting & Social Change, Scientific Reports, Habitat International, Cities, IEEE Access, TheWebConf (WWW), IEEE VIS.



Nicole Boothman-Shepard

AECOM's Vice President and Vice-Chair of the Transportation Research Board's Transportation Systems Resilience Section (AMR00)

Nicole Boothman-Shepard is AECOM's Vice President and Senior Director for Resilience and Recovery. Nicole is passionate about partnering with community

on strategic risk reduction for shocks and stresses and providing executive advisement on transformative post-disaster recovery. Nicole serves as the Vice-Chair of the Transportation Research Board's Transportation Systems Resilience Section (AMR00) supporting surface transportation, transit, aviation, and rail. She is also Principal Investigator for the National Cooperative Highway Research Program's (NCHRP's) Contracting Strategies Guidebook for the Administration of Concurrent, Regional Emergencies and Disasters currently pending publication. Nicole is a US national expert in resilience and disaster policy and maximizing funding impacts for transportation and other government agencies. She has facilitated the award of \$8B in US Federal Highways Administration Emergency Relief funds, the US Federal Emergency Management Agency Public Assistance funding, and other federal funding for resilient rebuilding including New York MTA following Superstorm Sandy and Colorado DOT following the catastrophic 2013 flood. She advises transportation and other government agencies on all aspects of compliance and risk mitigation throughout the program and project delivery lifecycles. Nicole also spearheads program management programs for major and catastrophic recovery. Pre-shock, Nicole helps communities plan, prioritize, and deliver stakeholder-centered climate adaptation and resilience investments. Post-shock, she provides rapid response support that truncates downtime, restores lifelines, and re-opens local businesses and industry. Nicole provides strategic advisement on sustainable and resilient reconstruction to leverage social, economic, and environmental co-benefits. Nicole was appointed by 3 Governors as Rhode Island's Vulnerable Populations Coordinator for RI Emergency Management Agency for 7-year term and is deeply concerned with the adverse impacts of disasters on vulnerable communities.



Xu Yingying

Ph.D. candidate in the Department of Civil and Environmental Engineering at The Hong Kong Polytechnic University (PolyU), Kowloon, Hong Kong

Xu Yingying is currently a Ph.D. candidate in the Department of Civil and Environmental Engineering at The Hong Kong Polytechnic University (PolyU),

Hong Kong. She has obtained her bachelor's and master's degree in Beijing Jiaotong University at automatic (railway signal) and traffic information engineering and control respectively. Her research focuses on transportation network analysis, including network resilience/redundancy/vulnerability analysis, equity analysis of the public transportation services, travel behavior analysis, accessibility and mobility of the walking environment around the metro stations. Besides, she has developed method for a new style map drawing (concentric circles map) which can provide new insights for transport network analysis. Related papers have been published or accepted by International Journal of Geographical Information Science, Travel Behaviour and Society, Environment and Planning B: Urban Analytics and City Science, and Regional Studies, Regional Science.

Panel Discussion

Prof. Yang Xin

Speakers from Presentation Session

Conclusion

9:55 - 10:25 / 3:55 - 4:25

Moderator

Panelists

10:25 - 10:30 / 4:25 - 4:30

Prof. Yang Xin

State Key Laboratory of Rail Transport Control and Safety, BJTU

Yang Xin, PhD, Professor of the State Key Laboratory of Rail Transport Control and Safety of Beijing Jiaotong University. He also serves as the Deputy Secretary-General of the Transportation Management Branch of the Society of

Management Science and Engineering of China. He is engaged in the research on the optimization of urban rail transit train operation, and was selected into the Fourth Youth Talent Promotion Project of China Association for Science and Technology. In recent years, he has presided over more than 10 projects such as the youth fund of the National Natural Science Foundation of China, the basic scientific research business fees of central universities, key projects of national key laboratories, and participated in more than 20 major projects of the National Natural Science Foundation of China and national key research and development projects. He has published 25 SCI papers, including 10 papers from the first author JCR zone 1, and 5 papers from the first author / corresponding author have been selected as high cited papers of ESI, one of which was included in the Major Scientific and Technological Innovation Achievements Library of Transportation. He owns 21 invention patents, of which 9 have been authorized, 1 has been successfully transformed, and 12 software copyrights have been obtained. His doctoral thesis was selected into the Excellent Doctoral Thesis of Beijing Jiaotong University and the Excellent Doctoral Thesis of the Society of Management Science and Engineering. His research results won the first prize of Natural Science of the Ministry of Education in 2018, the first prize of Science And Technology of CHTS in 2020, and the first prize of scientific and technological innovation of China Association for the Promotion of Science and Technology Industrialization in 2020.



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