

Program at a Glance		
Saturday, October 11, 2025, Beijing Four Seasons Royal Garden International Hotel, Beijing		
9:00-9:20	Multi Functional Hall	Opening Session, Chair: Tao Tang
9:20-10:20	Multi Functional Hall	Plenary Session 1, Chair: Baigen Cai
	9:20-9:50	AI, Autonomy and Assurance: the BIG Picture, Speaker: John A McDermid OBE FREng, University of York
	9:50-10:20	Human Factors and Automation, Speaker: Roderick Ian Muttram FREng, Institution of Railway Signal Engineers
	Fuchen Hall	Celebration Meeting, Chair: Xiaopei Cai
	9:20-9:50	50th Anniversary Celebration of the Journal of Beijing Jiaotong University
	9:50-10:20	2025 Academic Symposium on Journals
10:20-10:40	Coffee Break	
10:40-11:40	Multi Functional Hall	Plenary Session 2, Chair: Runmei Li
	10:40-11:10	Human-Cooperative Train Automation: Japanese Unique Evolution in Response to Social Challenges, Speaker: Koseki Takafumi, The University of Tokyo
	11:10-11:40	Linking Modes Leads the Change: Rail-Centric Approaches to the Multimodal Transport Future, Speaker: Nikola Bešinović, Technische Universität Dresden

12:00-13:30	Make Restaurant	Lunch		
13:30-15:10	Invited Sessions A		Workshop	
	SaA1	Intelligent Prognostics and Health Management of Railway Systems Chair: Chongchong Yu Cochair: Biao Wang	WoA1	AI-Empowered Safe and Secure Rail Control Systems, Chair: Dr. Ling Liu, CRSCD
	Meeting Room 1		Fuchen Hall	
	SaA2	AI-Empowered Safe and Secure Railway Chair: Xiaoya Hu Cochair: Qing Li	Formal Methods for the Verification of AI in Automotive Systems Speaker: Toshiaki JAIST, Aoki	
	Meeting Room 3			
	SaA3	Intelligent Train Dispatching for Rail Systems: Methods, Applications, and Emerging Technologies Chair: Ming Chai Cochair: Jiateng Yin		
	Meeting Room 5			
	SaA4	Intelligent Perception and Localization for Railway Chair: Jun Yang Cochair: Yu Shen	How to use AI safely for rail control software - an industrial practice Speaker: Fei Niu, Daniel Fredholm, Prover Technology AB	
	Meeting Room 2			
	SaA5	Safety, Security and Reliability of Railway Chair: Ravi Ravitharan Cochair: Runmei Li		
Meeting Room 4				

15:10-15:30	Coffee Break		Coffee Break
15:30-17:10	Invited Sessions B		Speaker: Wei Wang, Xi'an Jiaotong University
	SaB1	High Dependable Communication for Railway	
	Meeting Room 2	Chair: Li Zhu Cochair: Yang Li	
	SaB2	Advanced Intelligent Control and AI Innovations in Rail Transit	Dual-View Spatio-Temporal Representation Learning for Intrusion Detection in Industrial Control System
	Meeting Room 4	Chair: Pengfei Sun, Cochair: Zhuang Xiao	
	SaB3	Intelligent Operation and Maintenance Technologies for Rail Transportation System	
	Meeting Room 1	Chair: Xiaomin Wang, Cochair: Yadong Zhang	Speaker: Jianwen Xiang, Wuhan University of Technology
	SaB4	Intelligent and Cooperative Control of Rolling Stock and Railway System	The Paradigm Shift of Cyber Resilience in Digitalized Train Control Systems
	Meeting Room 3	Chair: Shaofeng Lu Cochair: Yafei Liu	
	SaB5	New Trends and Emerging Technologies for Intelligent Rail Transportation	
Meeting Room 5	Chair: Yongkui Sun Cochair: Feng Wang	Speaker: Zonghua Zhang, CRSCD	
18:00-20:00	Yuhui Hall	Welcome Reception	

Sunday, October 12, 2025, Beijing Four Seasons Royal Garden International Hotel, Beijing		
8:30-10:30	Multi Functional Hall	Plenary Session 3, Chair: Xinhong Hei
	8:30-9:00	Advances in AI Safety & Cybersecurity, Speaker: A G Hessami, Vega Systems
	9:00-9:30	What is the Future for Railway Control and Operations ? – Future Trends and Opportunities, Speaker: Clive Roberts, Durham University
	9:30-10:00	Revitalising Train Control System With DX in Japan, Speaker: Hideo Nakamura, Nihon University
	10:00-10:30	Self-Organizing Railway Traffic, Speaker: Paola Pellegrini, Université Gustave Eiffel
10:30-10:50	Coffee Break	
10:50-12:00	Invited Sessions C	
	SuC1	AI-Driven Innovations for Safety, Efficiency, and Sustainability
	Meeting Room 1	Chair: Rui Wang Cochair: Du Shang
	SuC2	Integrated Regional Rail Transit Systems
	Meeting Room 2	Chair: Yihui Wang Cochair: Shigen Gao
	SuC3	Intelligent Operation and Control for Maglev Transportation System
	Meeting Room 4	Chair: Hongze Xu Cochair: Xubin Sun
SuC4	Electromagnetic Compatibility for railway	
Meeting Room 3	Chair: Jianjun Xiao Cochair: Jie Ren	
12:00-13:30	Make Restaurant	Lunch