**THE 22ND IEEE INTERNATIONAL CONFERENCE ON INDUSTRIAL INFORMATICS (INDIN) INDIN 2024**

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**Special Session on**

# “Human Factors in Decision-Making, Planning and Control Technologies of Intelligent Vehicles”

Principal Organizer(s):

# Organized by

1. Guodong Yin (ygd@seu.edu.cn), Professor, Southeast University
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3. Hongliang Wang (whl@njust.edu.cn), Associate Professor, Nanjing University of Science and Technology
4. Yongjun Yan (yanyj@njust.edu.cn), Assistant Professor, Nanjing University of Science and Technology

# Call for Papers

Theme: This special session aims to provide up-to-date research concepts, theoretical findings, and practical solutions on considering human factors in decision-making, planning, and control technologies for intelligent vehicles, which could help to improve the driving safety and ride comfort of intelligent vehicles.

Topics of interest include, but are not limited to:

* 1. Application of AI and machine learning for autonomous driving
	2. Personalized decision-making and trajectory planning
	3. Behavior prediction of human-driven vehicles and pedestrians
	4. Multi-vehicle interaction in complex environments mixed with human-driven and autonomous vehicles
	5. Multi-vehicle cooperative trajectory planning in mixed driving environments
	6. Drivers and passengers trust analysis and assessment of intelligent vehicles
	7. Driver behavior analysis in driver-automation shared control
	8. Personalized Advanced Driver Assistance Systems (ADAS)
	9. Human-machine cooperative decision-making and control technology
	10. Personalized steer, brake and drive systems based on driving style identification
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**Guodong Yin** (Senior Member, IEEE) received Ph.D. degree in vehicle engineering from Southeast University, Nanjing, China, in 2007. He is currently a Professor at the School of Mechanical Engineering, Southeast University, Nanjing, China. His current research interests include vehicle dynamics and control, connected vehicles, and multi-agent control, where he has published a monograph and contributed three book chapters, over 150 papers, and obtained 25 granted patents.

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**Yongjun Yan** received an M.S. degree and Ph.D. degree in vehicle engineering from Southeast University, Nanjing, China, in 2020 and 2024, respectively. He is currently a Lecturer with the School of Mechanical Engineering, Nanjing University of Science and Technology, Nanjing. His research interests include vehicle dynamics and control, automotive active safety control, intelligent vehicle decision-making and control, and personalized driving. As the first

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