

Technical Program

Friday, October 28, 2022

Poster Session P1 Oct. 28, 13:30–15:30 308				
▷ P1-01			Wei, Liren	Dalian Univ. of Tech.
0387 <i>Real-time Multiple Path Prediction and Planning for Autonomous Driving Aided by FCN</i>			Ge, Pingshu	Dalian Minzu Univ.
			Qin, Zengke	Dalian Univ. of Tech.
▷ P1-02			▷ P1-10	
0263 <i>Unmanned Vehicle Path Planning Based on Improved Ant Colony Algorithm</i>			0161 <i>The Monocular Ranging Based on Stable Target Detection and Tracking for Intelligent Vehicle</i>	
Chu, Yanli	Dalian Minzu Univ.		Zeng, Jiahui	Wuhan Univ. of Tech.
Zhang, Tao	Dalian Minzu Univ.		Pei, Xiaofei	Wuhan Univ. of Tech.
Ge, Pingshu	Dalian Minzu Univ.		Xi, Wenhai	Wuhan Univ. of Tech.
Sun, Chi	Dalian Minzu Univ.			
▷ P1-03			▷ P1-11	
0378 <i>Hierarchical Optimal Control of A Group of Electric Vehicles for Maximizing Energy Efficiency and Battery Life</i>			0143 <i>Cooperative Steering Control System for Robust Obstacle Avoidance in Cluttered Off-Road Environments</i>	
Li, Bingbing	Southeast Univ.		Yan, Liang	Shanghai Jiao Tong Univ.
Zhuang, Weichao	Southeast Univ.		Wu, Xiaodong	Shanghai Jiao Tong Univ.
Tang, Mengcheng	Southeast Univ.		Xu, Min	Shanghai Jiao Tong Univ.
Li, Jinhui	Southeast Univ.		Wang, Mingyan	Chongqing Chizhi Tech. Co., Ltd
▷ P1-04			▷ P1-12	
0369 <i>Human-like Tracking Control Strategy for Autonomous Vehicle Based on Preview Feedforward and Active Disturbance Rejection Control</i>			0104 <i>Visual Inertial SLAM with Deep Learning-enabled Loop Closure for Challenging Scenes</i>	
Liu, Neng	Southeast Univ.		Li, Jiaze	Tongji Univ.
Wang, Jinxiang	Southeast Univ.		Zhang, Fenglin	Tongji Univ.
Fang, Zhenwu	Southeast Univ.		Zhao, Junqiao	Tongji Univ.
Cheng, Sizhe	Southeast Univ.		Cai, Yingfeng	Tongji Univ.
Chen, Jinxin	Southeast Univ.		Ye, Chen	Tongji Univ.
Yin, Guodong	Southeast Univ.			
▷ P1-05			▷ P1-13	
0366 <i>Improved Cartographer Algorithm Based on Map-to-Map Loopback Detection</i>			0006 <i>An Innovative Data Fusion Method based on Mixed H^∞/Adaptive Kalman Filtering for Target Tracking of Intelligent Vehicles</i>	
Yang, Sibing	Beijing Jiaotong Univ.		Liu, Yujie	School of Mechanical & Automotive Engineering
Geng, Cong	Beijing Jiaotong Univ.		Liu, Congzhi	Southwest Jiaotong Univ.
Li, Miaomiao	Beijing Jiaotong Univ.			
Liu, Jiang	Sany Truck		▷ P1-14	
Cui, Fubei	Beijing Jiaotong Univ.		0438 <i>Fast SSD Detection Model with Pyramid Multi-Scale Pooling Networks</i>	
▷ P1-06			Zhang, Xinliang	Henan Polytechnic Univ.
0258 <i>Vehicle Energy-Saving Motion Planning Based on Deep Q-Network</i>			Li, Zhan	Henan Polytechnic Univ.
Sun, Dazhen	Jilin Univ.		Huang, Jianhang	Henan Polytechnic Univ.
Jin, Yinghao	Jilin Univ.		Xie, Heng	Agricultural Bank of China
Wang, Jinpeng	Jilin Univ.		Lijie, Jia	Henan Polytechnic Univ.
Wang, Jialin	State Key Laboratory of Automotive Simulation & Control			
Liu, Qifang	Jilin Univ.		▷ P1-15	
▷ P1-07			0412 <i>Fatigue Driving Detection by Using the Proposed Time Cumulative Effect Model</i>	
0259 <i>An Improved Q-Learning Algorithm and Its Application to the Optimized Path Planning for Unmanned Ground Robot with Obstacle Avoidance</i>			Chen, Jian	Yangzhou Univ.
Bai, Zekun	Xi'an Univ. of Tech.		Xiang, Lu	Yangzhou Univ.
Pang, Hui	Xi'an Univ. of Tech.		Yan, Ming	Yangzhou Univ.
Liu, Minhao	Xi'an Univ. of Tech.		Xu, Jing	Yangzhou Univ.
Wang, Mingxiang	Xian Univ. of Tech.			
▷ P1-08			▷ P1-16	
0247 <i>Trajectory Tracking Model Predictive Controller via Sparse Bayesian Learning</i>			0394 <i>Vehicle Stability Control Considering Longitudinal Disturbances of Wheel Dynamic Based on Linear Time-varying Model Predictive Control</i>	
Hu, Xuanyu	Univ. of Shanghai for Sci. & Tech.		Wang, Xuyang	Changchun Univ. of Tech.
Fei, Meng	Univ. of Shanghai for Sci. & Tech.		Li, Shaosong	Changchun Univ. of Tech.
Shen, Xuyu	Univ. of Shanghai for Sci. & Tech.		Lu, Xiaohui	Changchun Univ. of Tech.
Liu, Fu	Shanghai Zhijia Automobile Tech. Co., Ltd		Liu, Na	Changchun Univ. of Tech.
▷ P1-09			Yu, Zhixin	Changchun Univ. of Tech.
0224 <i>Lane Keeping Controller Based on LQR Optimized by Genetic Algorithm</i>			▷ P1-17	
Guo, Lie	Dalian Univ. of Tech.		0058 <i>Trajectory Prediction for Human-driven Vehicles Based on A Combined Method of Deep Neural Network and Driving Risk Map</i>	
			Liu, Xulei	Shanghai Jiao Tong Univ.
			Wang, Yafei	Shanghai Jiao Tong Univ.
			Duan, Boyu	Shanghai Jiao Tong Univ.
			Zhou, Guofeng	Shanghai Ocean Univ.
			Yin, Chengliang	Shanghai Jiao Tong Univ.
			▷ P1-18	
			0377 <i>Optimization of Negative Stiffness Air Pressure for Quasi-Zero Stiffness Air Suspensions Based on Cooperative Game Theory</i>	
			Ma, Zhixiang	Jiangsu Univ.
			Xu, Xing	Jiangsu Univ.
			Xie, Ju	Jiangsu Univ.
			Jiang, Xinwei	Jiangsu Univ.

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	Liu, Sihan Song, Xincheng	Jilin Univ. Jilin University	0237 <i>Energy Management Strategy Based on Constructing A Fitting Driving Cycle for Pure Electric Vehicles</i>	Zhang, Kaixuan Ruan, Jiageng Ziyi, Ye Cui, Hanghang Li, Tongyang	Beijing Univ. of Tech. Beijing Univ. of Tech. Beijing Univ. of Tech. Beijing Univ. of Tech. Beijing Univ. of Tech.
▷ P2-12					
0264	<i>Active Front Steering Controller for Distributed Drive Electric Vehicles Based on Sliding Mode Control</i>				
	Cui, Fanglei Ge, Pingshu Wang, Yang Zhang, Tao	Dalian Minzu Univ. Dalian Minzu Univ. Dalian Minzu Univ. Dalian Minzu Univ.			
▷ P2-13					
0423	<i>Application of Model Predictive Controller to Adaptive Cruise Control</i>				
	Wang, Tianshu Chu, Yuan Ji, Xuewu	Tsinghua Univrsity Tsinghua Univ. Tsinghua Univrsity		Wang, Xu Huang, Ying Wang, Jian Luo, Chengliang	Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.
▷ P2-14					
0361	<i>Multi-objective Adaptive Cruise Control Optimization Algorithm for Electric Vehicles Based on Model Predictive Control</i>				
	Xu, Jiasen Zhang, Niaona Wang, Jieshu Yang, Sheng	Changchun Univ. of Tech. Changchun Univ. of Tech. Changchun Univ. of Tech. Changchun Univ. of Tech.			
▷ P2-15					
0325	<i>Research on Dynamics Model Evaluation Method of Commercial Vehicle Base on Error in Prediction Horizon for Nonlinear MPC</i>				
	Zhang, Boshi Shi, Shuming Yu, Shuyou	College of Transportation Jilin Univ. College of Telecommunication Engineering of Jilin Univ.			
	Gao, Xiaolong Lin, Nan	Dongfeng Commercial Vehicle Tech. Center Jilin Univ.			
▷ P2-16					
0030	<i>Design and Simulation of FSC Racing Car Chassis</i>				
	Hasan, Ammarul Lu, Cunhao Liu, Wei Zhang, Ning	Yangzhou Univ. Yangzhou Univ. Yangzhou Univ. Southeast Univ.			
▷ P2-17					
0275	<i>State-of-charge Estimation for Lithium-ion Battery Pack Based on Unscented Kalman Filter Considering Cell Inconsistency</i>				
	Xiao, Kun Cui, Zhongrui Cui, Naxin	Shandong Univ. Shandong Univ. Shandong Univ.			
▷ P2-18					
0435	<i>Machine Learning-Based Hybrid Thermal Modeling and Estimation for Lithium-Ion Battery</i>				
	Li, Pengfei Wei, Zhongbao Hu, Jian He, Hongwen	Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.			
▷ P2-19					
0185	<i>A Multi-objective Optimal Charging Strategy Based on Electro-thermal Coupling Model</i>				
	Xu, Zhiyong Zhao, Guangcai Liu, Xuefeng Kuai, Yuhang Duan, Bin Zhang, Chenghui	Shandong Univ. Shandong Univ. Shandong Univ. Shandong Univ. Shandong Univ. Shandong Univ.			
▷ P2-20					
			0237	<i>Energy Management Strategy Based on Constructing A Fitting Driving Cycle for Pure Electric Vehicles</i>	
				Zhang, Kaixuan Ruan, Jiageng Ziyi, Ye Cui, Hanghang Li, Tongyang	Beijing Univ. of Tech. Beijing Univ. of Tech. Beijing Univ. of Tech. Beijing Univ. of Tech. Beijing Univ. of Tech.
			▷ P2-21		
			0231	<i>DDPG-guided Adaptive Equivalent Consumption Minimization Strategy for A Range-Extended Electric Vehicle</i>	
				Wang, Xu Huang, Ying Wang, Jian Luo, Chengliang	Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech. Beijing Inst. of Tech.
			▷ P2-22		
			0016	<i>Research on Transmission Ratio Optimization and Energy Management Strategy of Plug-in Hybrid Electric Vehicle</i>	
				Kui, Hailin Wang, Zezhao	Jilin Univ. Jilin Univ.
			▷ P2-23		
			0153	<i>Learning-based Fast Image Enhancement for Driving Scenes</i>	
				Dong, Mingwei Liu, Runwu Kong, Huifang	Hefei Univ. of Tech. Hefei Univ. of Tech. Hefei Univ. of Tech.
			▷ P2-24		
			0180	<i>Eco-driving for Connected EVs Utilizing the Upcoming Traffic Lights Information and Air Condition Temperature Regulation</i>	
				Lu, Xiaohui Fan, Yangqun Wang, Han Raub, Wentao Wang, Zaixiao	Changchun Univ. of Tech. Changchun Univ. of Tech. Changchun Univ. of Tech. Changchun Univ. of Tech. Changchun Univ. of Tech.
			▷ P2-25		
			0191	<i>Speed Planning and Energy-saving Optimal Control System of Electric Vehicle Based on Neural Network Algorithm</i>	
				Xu, Haochen Zhe, Zhang Zhang, Niaona Zhuo, Zichang Zhang, Yilei Zhang, Ye	Changchun Univ. of Tech. Changchun Univ. of Tech. Changchun Univ. of Tech. Changchun Univ. of Tech. Changchun Univ. of Tech. Changchun Univ. of Tech.
			▷ P2-26		
			0365	<i>A SOCP Estimator for Hybrid RD and AOA Vehicle Cooperative Localization in VANETs</i>	
				Wang, Faan Yin, Guodong Xu, Liwei Xie, Kaiting Liang, Jinhao Lu, Yanbo	KunMing Univ. of Sci. & Tech. Southeast Univ. Southeast Univ. Kunming Univ. of Sci. & Tech. Southeast Univ. Southeast Univ.
			▷ P2-27		
			0135	<i>Adaptive Cruise Control and Energy-Efficient Torque Allocation for Distributed-Drive Electric Vehicles under Low-Speed Stop-and-Go Scenarios</i>	
				Fan, Xubing	SAIC General Research & Development Inst. of Innovation
				Meng, Dele Tian, Mengjian Gao, Bingzhao	Tongji Univ. Shenzhen Tech. Univ. Jilin Univ.

Saturday, October 29, 2022

SatA01		13:30–15:30	307
Award Session: Guo Konghui Award Finalist			
Chair: Zhang, Xinjie		Jinlin Univ.	
Co-Chair: Zhang, Jiangyan		Dalian Minzu Univ.	
Tencent Meeting ID:421-610-606			
► SatA01-1		13:30–13:50	
0222	<i>Graph-based Planning-informed Trajectory Prediction for Autonomous Driving</i>		
	Dong, Qing	Tsinghua Univ.	
	Jiang, Titong	Tsinghua Univ.	
	Xu, Tao	Tsinghua Univ.	
	Liu, Yahui	Tsinghua Univ.	
► SatA01-2		13:50–14:10	
0375	<i>Co-optimization of Speed Planning and Energy Management for Connected Hybrid Electric Vehicles under A Single Signal Intersection</i>		
	Zhang, Fengqi	Xi'an Univ. of Tech.	
	Xiao, Lehua	Xian Univ. of Tech.	
	Hu, Xiaosong	Chongqing Univ.	
	Xie, Shaobo	Chang'an Univ.	
	Pang, Hui	Xi'an Univ. of Tech.	
	Cui, Yahui	Xi'an Univ. of Tech.	
► SatA01-3		14:10–14:30	
0336	<i>Electric Vehicle Routing Problem for Energy Consumption Minimization: Deep Reinforcement Learning Approach</i>		
	Tang, Mengcheng	Southeast Univ.	
	Li, Bingbing	Southeast Univ.	
	Liu, Haoji	Southeast Univ.	
	Zhuang, Weichao	Southeast Univ.	
	Li, Zhaojian	Michigan State Univ.	
	Peng, Jiankun	Southeast Univ.	
► SatA01-4		14:30–14:50	
0358	<i>A Semi-physical Method for Tire Normal Load Estimation Using Intelligent Tires under Cornering Conditions</i>		
	Zhou, Jianfeng	Jilin Univ.	
	Xu, Nan	Jilin Univ.	
	Guo, Liangshen	Jilin Univ.	
	Wang, Zhenxu	Jilin Univ.	
► SatA01-5		14:50–15:10	
0093	<i>Personalized Driver Car-Following Model — Considering Human's Limited Perception Ability and Risk Assessment Characteristics</i>		
	Gao, Huihua	Jilin Univ.	
	Qu, Ting	Jilin Univ.	
	Hu, Yunfeng	Jilin Univ.	
	Chen, Hong	Jilin Univ.	
► SatA01-6		15:10–15:30	
0239	<i>Mandatory Lane-Changing Decision-Making in Dense Traffic for Autonomous Vehicles Based on Deep Reinforcement Learning</i>		
	Gu, Yuxiao	Tongji Univ.	
	Yuan, Kang	Tongji Univ.	
	Yang, Shuo	Tongji Univ.	
	Ning, Minghao	Univ. of Waterloo	
	Huang, Yanjun	Tongji Univ.	
SatA02		13:30–15:30	308
Invited Session: Map, SLAM and Sensing Technologies for Automated Driving			
Chair: Wang, Yafei		Shanghai Jiao Tong Univ.	
Co-Chair: Fu, Chunyun		Chongqing Univ.	
Tencent Meeting ID:425-177-123			
► SatA02-1		13:30–13:50	
0230	<i>Optimized SC-F-LOAM: Optimized Fast LiDAR Odometry and Mapping Using Scan Context</i>		
	Liao, Lizhou	Chongqing Univ.	
	Fu, Chunyun	Chongqing Univ.	
	Feng, Binbin	Chongqing Univ.	
	Su, Tian	Chongqing Univ.	
► SatA02-2		13:50–14:10	
0272	<i>Dynamic Visual SLAM Based on Efficient Two-Stage Statistical Model</i>		
	Wu, Shaoteng	Shanghai Jiao Tong Univ.	
	Zhang, Ruitao	Shanghai Jiao Tong Univ.	
	Wang, Yafei	Shanghai Jiao Tong Univ.	
► SatA02-3		14:10–14:30	
SatA03		13:30–15:30	312
Invited Session: Interaction, Cooperation and Competition in Decision-Making and Motion Planning of Autonomous Vehicles			
Chair: Leng, Bo		Tongji Univ.	
Co-Chair: Hang, Peng		Tongji Univ.	
Tencent Meeting ID: 763-469-484			
► SatA03-1		13:30–13:50	
0238	<i>Adaptive Cruise Control System Based on Multi-objective Model Predictive Control</i>		
	Kong, Aijing	Tongji Univ.	
	Chen, Xinbo	Tongji Univ.	
► SatA03-2		13:50–14:10	
0418	<i>Integrated Optimization of Transit Signal Priority and Trajectory Planning for Autonomous Buses to Catch Green Light</i>		
	Xiong, Lu	Tongji Univ.	
	Shi, Gesong	Tongji Univ.	
	Li, Zhuoren	School of Automobile Studies	
	Leng, Bo	Tongji Univ.	
► SatA03-3		14:10–14:30	
0041	<i>Thermal Runaway Analysis and Model of Nickel-rich Lithium-ion Batteries in Different Overcharging States</i>		
	Chen, Zhaoqi	Shandong Univ.	
	Huang, Peng	Shandong Univ.	
	Pang, Qitian	Shandong Univ.	
	Gu, Pingwei	Shandong Univ.	
	Duan, Bin	Shandong Univ.	
	Zhang, Chenghui	Shandong Univ.	
► SatA03-4		14:30–14:50	
0374	<i>Robust Predictive Control of PMSM Drive for Electric Vehicle with System Nonlinearity and Uncertainties</i>		
	Gao, Youyou	Jiangsu Univ.	
	Li, Meng	Jiangsu Univ.	
	Xu, Xing	Jiangsu Univ.	
	Lin, Heping	BYD Company	
	Li, Yong	Jiangsu Univ.	
► SatA03-5		14:50–15:10	
0115	<i>A Lithium-ion Battery SOC Estimation Method Involving Battery Internal Temperature</i>		
	Liu, Yuntong	Beijing Inst. of Tech.	
► SatA03-6		15:10–15:30	
0124	<i>Connection Fault Diagnosis for Series-connected Lithium-ion Battery Based on Curve Similarity Calculation and Curve Conversion</i>		

Ding, Xinchao	Shandong Univ.	Unsignalized Intersection	
Cui, Zhongrui	Shandong Univ.	Hu, Haiyang	Wuhan Univ. of Tech.
Cui, Naxin	Shandong Univ.	Chu, Duanfeng	Wuhan Univ. of Tech.
		Lu, Liping	Wuhan Univ. of Tech.
SatA04	13:30–15:50	310	
Invited Session: Energy saving technologies of electrified vehicles through intelligence and connectivity			
Chair: Shi, Dehua	Jiangsu Univ.	► SatA05-3	14:10–14:30
Co-Chair: Liu, Yonggang	Chongqing Univ.	0175 <i>Multi-dimensional Attention Network for Vehicle Re-identification</i>	
Tencent Meeting ID: 785-424-236		Gao, Yunlong	Wuhan Univ. of Tech.
► SatA04-1	13:30–13:50	Lu, Liping	Wuhan Univ. of Tech.
0228 <i>Eco-driving Control for Vehicles Considering Energy Consumption Characteristics</i>		Xu, Bingrong	Wuhan Univ. of Tech.
Tong, Yao	Chongqing Univ.	Chu, Duanfeng	Wuhan Univ. of Tech.
Yang, Yang	Chongqing Univ.	► SatA05-4	14:30–14:50
Li, Heng	Chongqing Univ.	0223 <i>Cooperative Motion Planning with 3D Spatio-temporal Map for Connected and Automated Vehicles in Intersection</i>	
Huang, Bin	Chongqing Univ.	Cao, Yongxing	Wuhan Univ.
Liu, Yonggang	Chongqing Univ.	Li, Bijun	Wuhan Univ.
Zheng, Chen	Kunming Univ. of Sci. & Tech.	Zhang, Hongjuan	Wuhan Univ. of Tech.
► SatA04-2	13:50–14:10	Chu, Duanfeng	Wuhan Univ.
0242 <i>Multi-Objective Vehicle Speed Planning with Incorporation of Driving Style Classification</i>		Huang, Yuanxian	Wuhan Univ.
Liu, Guanying	Kunming Univ. of Sci. & Tech.	Guo, Xiaomin	Wuhan Univ.
Zheng, Chen	Kunming Univ. of Sci. & Tech.	► SatA05-5	14:50–15:10
Shen, Shiquan	Kunming Univ. of Sci. & Tech.	0327 <i>Personalized Autonomous Vehicle Control for Typical Driving Scenarios</i>	
Liu, Yonggang	Chongqing Univ.	Li, Haoran	Wuhan Univ. of Sci. & Tech.
► SatA04-3	14:10–14:30	Wei, Wangling	Wuhan Univ. of Sci. & Tech.
0260 <i>Research on Eco-driving Strategy in Urban Scenarios Based on Deep Reinforcement Learning</i>		Zheng, Sifa	Tsinghua Univ.
Yu, Pengfei	Jiangsu Univ.	Sun, Chuan	Tsinghua Univ.
Wang, Shaohua	Jiangsu Univ.	► SatA05-6	15:10–15:30
Shi, Dehua	Jiangsu Univ.	0371 <i>Clutch Control Timing Optimization for Adjacent Gearshift Process with Multiple Clutches Based on Adaptive Kriging Surrogate Model</i>	
Yin, Chunfang	Jiangsu Univ.	Dong, Peng	Beihang Univ.
► SatA04-4	14:30–14:50	Li, Junqing	Beihang Univ.
0157 <i>A Flexible and Efficient Reactive Power Compensation Method for Modular High Frequency Link Matrix Converter in Battery Charging</i>		Wang, Shuhan	Beihang Univ.
Wu, Gaotong	Shandong Univ.	Mao, Feihong	China North Vehicle Research Inst.
Song, Jinqiu	Shandong Univ.	Xu, Xiangyang	Beijing Univ. of Aeronautics & Astronautics
Duan, Bin	Shandong Univ.	Guo, Wei	Beihang Univ.
Ding, Wenlong	Shandong Univ.	Liu, Yanfang	Beihang Univ.
Wan, Dongxiang	Shandong Univ.		
Zhang, Chenghui	Shandong Univ.	SatA06	13:30–15:30 203
► SatA04-5	14:50–15:10	Invited Session: Modeling, Estimation, Control, and Decision for Human-Vehicle System	
0108 <i>Deep Reinforcement Learning Based Multi-Objective Energy Management Strategy for A Plug-in Hybrid Electric Bus Considering Driving Style Recognition</i>		Chair: Liu, Yahui	Tsinghua Univ.
Zhang, Chunmei	Shandong Univ.	Co-Chair: Wang, Jinxiang	Southeast Univ.
Cui, Wei	Shandong Univ.	Tencent Meeting ID: 855-247-808	
Cui, Naxin	Shandong Univ.	► SatA06-1	13:30–13:50
► SatA04-6	15:10–15:30	0271 <i>A study on the relationship and effect between drivers' physiological parameters, situational factors and the takeover criticality</i>	
0333 <i>Hydrodynamic Model Identification of An Unmanned Surface Vessel with Experiment Data</i>		Yi, Binlin	Hunan Univ.
Lu, Zhigang	Zhejiang Scientific Research Inst. of Transport	Haotian, Cao	Hunan Univ.
Li, Jiacheng	Zhejiang Univ.	Song, Xiaolin	Hunan Univ.
Wu, Pengying	Peking Univ.	► SatA06-2	13:50–14:10
Zheng, Huarong	Zhejiang Univ.	0279 <i>Active Haptic Assistance Control Based on Expert Driver Behavior Analysis</i>	
Huang, Yamin	Wuhan Univ. of Tech.	Li, Yuanhao	Nanjing Univ. of Aeronautics & Astronautics
► SatA04-7	15:30–15:50	Han, Zhang	Nanjing Univ. of Aeronautics & Astronautics
0101 <i>Reinforcement Learning Based Energy Management Strategy for Electrified Vehicles</i>		Zhao, Wanzhong	Nanjing Univ. of Aeronautics & Astronautics
Xu, Bin	The Univ. of Oklahoma	► SatA06-3	14:10–14:30
SatA05	13:30–15:30	313	
Invited Session: Interactive Agent Behaviour Prediction, Collaboration, Decision Making, and Control			
Chair: Wei, Chongfeng	Queen's Univ. Belfast	0297 <i>Human-like Behavior Decision Making Method for Intelligent Vehicle Considering Driver Characteristics</i>	
Co-Chair: Chu, Duanfeng	Wuhan Univ. of Tech.	Cui, Maoyuan	China FAW Corporation Limited
Tencent Meeting ID: 670-202-128		Wang, Chao	FAW Group
► SatA05-1	13:30–13:50	Lv, Ying	China FAW Group Co. LTD
0139 <i>Multi-intersection Signal Cooperative Control Based on Graph Attention Network</i>		Yu, Wenya	Jilin Univ.
Yuan, Shanshan	Wuhan Univ. of Tech.	Guo, Hongyan	Jilin Univ.
Cao, Yongxing	Wuhan Univ.	Tian, Yefeng	Jilin Univ.
Chu, Duanfeng	Wuhan Univ. of Tech.	► SatA06-4	14:30–14:50
► SatA05-2	13:50–14:10	0406 <i>Velocity Trajectory Planning of Electric Vehicles with Consideration of the Passenger's Individual Preferences</i>	
0154 <i>Multi-objective Optimization for Cooperative Organization of CAVs at</i>		Yan, Yongjun	Southeast Univ.
		Dongming, Han	Southeast Univ.
		Shen, Tong	Southeast Univ.
		Wang, Zejiang	Univ. of Texas at Austin
		Wang, Jinxiang	Southeast Univ.
		Yin, Guodong	Southeast Univ.
		► SatA06-5	14:50–15:10
		0411 <i>Driver Distraction Behavior Detection Using A Vision Transformer Model Based on Transfer Learning Strategy</i>	

Fang, Zhenwu	Southeast Univ.	Xian, Huiyuan	Hunan Univ.
Chen, Jinxin	Southeast Univ.	Bian, Yougang	Hunan Univ.
Wang, Jinxiang	Southeast Univ.	Ye, Jun	Hunan Univ.
Wang, Zejiang	Univ. of Texas at Austin	Li, Nannan	Beijing Inst. of Tech.
Liu, Neng	Southeast Univ.	Du, Changkun	Beijing Inst. of Tech.
Yin, Guodong	Southeast Univ.	Xu, Biao	Hunan Univ.
► SatA06-6	15:10–15:30	Hu, Manjiang	Hunan Univ.
⁰¹⁶⁰ <i>The Super-Twisting Sliding Mode Control for Half-Bridge Three-Level LLC Resonant Converter</i>		► SatA08-2	13:50–14:10
Feng, Dexiang	Shandong Univ.	⁰²⁵¹ <i>Intelligent Fault Diagnosis of Hypersonic Vehicle Based on ResCNN-LSTM-ATT</i>	
Zhang, Chenzhong	Shandong Univ.	Zhao, Jiaxin	Beijing Inst. of Tech.
Song, Jinqiu	Shandong Univ.	Wang, Liang	Beijing Aerospace Automatic Control Inst.
Duan, Bin	Shandong Univ.	Lu, Pingli	Beijing Inst. of Tech.
Ding, Wenlong	Shandong Univ.	Du, Changkun	Beijing Inst. of Tech.
Zhang, Chenghui	Shandong Univ.	► SatA08-3	14:10–14:30
SatA07	13:30–15:30	⁰⁰¹² <i>Vehicle Yaw Stability Control via Piecewise Control Strategy</i>	
Invited Session: Economic-oriented vehicle control and management		Xu, Quanning	Changan Univ.
Chair: Zhang, Hailong	North Univ. of China	► SatA08-4	14:30–14:50
Co-Chair: Li, Menglin	Yanshan Univ.	⁰⁴³³ <i>A Sliding Robust Algorithm Based Controller Design for Direct Yaw Moment Control System</i>	
Tencent Meeting ID: 537-907-132		Feng, Jiwei	Southeast Univ.
► SatA07-1	13:30–13:50	Yin, Guodong	Southeast Univ.
⁰²⁴⁶ <i>Battery Liquid Cooling Optimization Based on Optimal Solution of Thermal Resistance and Pressure Loss</i>		Liang, Jinhao	Southeast Univ.
Zhu, Bo	Hefei Univ. of Tech.	Lu, Yanbo	Southeast Univ.
Li, Hu	Jiangsu Skywell Automobile Co., Ltd	Cai, Guoshun	Southeast Univ.
Yao, Mingyao	Hefei Univ. of Tech.	Xu, Liwei	Southeast Univ.
► SatA07-2	13:50–14:10	► SatA08-5	14:50–15:10
⁰³⁸¹ <i>Predictive Energy Management Strategy of Fuel Cell Bus Based on Comprehensive Energy Consumption and Compound Braking Proportion Distribution</i>		⁰⁴³¹ <i>Torque Vector Compensation Strategy with Adaptive Model Predictive Control Considering Steering Actuator Fault</i>	
Yan, Mei	Yanshan Univ.	Lu, Yanbo	Southeast Univ.
Li, Guotong	Yanshan Univ.	Liang, Jinhao	Southeast Univ.
He, Hongwen	Beijing Inst. of Tech.	Yin, Guodong	Southeast Univ.
Hao, Li	Yanshan Univ.	Feng, Jiwei	Southeast Univ.
► SatA07-3	14:10–14:30	Xu, Liwei	Southeast Univ.
⁰³⁹⁰ <i>Ecological Driving Strategy for Fuel Cell Hybrid Electric Vehicle Based on Continuous Deep Reinforcement Learning</i>		Wang, Faan	KunMing Univ. of Sci. & Tech.
Chen, Weiqi	Southeast Univ.	SatA09	13:30–15:30
Yin, Guodong	Southeast Univ.	Invited Session: MAGLEV vehicles and Linear Drives technologies	
Fan, Yi	Southeast Univ.	Chair: Xu, Junqi	Tongji Univ.
Zhuang, Weichao	Southeast Univ.	Co-Chair: Sun, Yougang	Tongji Univ.
Zhang, Hailong	North Univ. of China	Tencent Meeting ID: 378-227-044	
Peng, Jiankun	Southeast Univ.	► SatA09-1	13:30–13:50
► SatA07-4	14:30–14:50	⁰⁰²⁸ <i>Influence Analysis of Levitation System Control Parameters under Longitudinal Eddy Current</i>	
⁰⁴⁰⁰ <i>Fuel Cell Bus Energy Management Based on Deep Reinforcement Learning in NGSIM High-speed Traffic Scenario</i>		Liu, Qinghui	Traction Power State Key Laboratory
Shen, Yang	Shandong Jiaotong Univ.	Ma, Weihua	Southwest Jiaotong Univ.
Yi, Fengyan	Shandong Jiaotong Univ.	Luo, Shihui	Southwest Jiaotong Univ.
Fan, Yi	Southeast Univ.	Qin, Longquan	Southwest Jiaotong Univ.
Chen, Weiqi	Southeast Univ.	► SatA09-2	13:50–14:10
Zhou, Jiaming	Beijing Inst. of Tech.	⁰¹⁴⁹ <i>Sliding-Mode-method-based Direct Torque Control of Permanent Magnet Synchronous Motors</i>	
Peng, Jiankun	Southeast Univ.	Kong, Xiaolei	ShenZhen Univ.
► SatA07-5	14:50–15:10	Cao, Guang-Zhong	Shenzhen Univ.
⁰⁴⁰⁵ <i>Tracking Control for Autonomous Four-Wheel Independently Driven Vehicle Based on Deep Reinforcement Learning</i>		Tao, Liang	The Fourth Engineering Co.ltd.of China Railway Construction Bureau Group
Tang, Jianming	Guangxi Univ.	Xu, Junqi	Tongji Univ.
Li, Qin	Guangxi Univ.	Huang, Sudan	Shenzhen Univ.
Yong, Wang	Beijing Inst. of Tech.	► SatA09-3	14:10–14:30
He, Deqiang	Guangxi Univ.	⁰¹⁵⁰ <i>Direct Torque Control of Permanent Magnet Synchronous Motor Using Voltage Vector Prediction</i>	
Chen, Yong	Guangxi Univ.	Lin, Zhixiang	Shenzhen Univ.
► SatA07-6	15:10–15:30	Xu, Junqi	Tongji Univ.
⁰⁴²² <i>Global Path Planning for Autonomous Driving Considering Dynamic Traffic Impedance Based on A* Algorithm</i>		Cao, Guang-Zhong	Shenzhen Univ.
Wang, Chuanqi	Gosuncn Tech. Group Co., Ltd	Tao, Liang	The Fourth Engineering Co.ltd.of China Railway Construction Bureau Group
Ma, Yuhao	Southeast Univ.	Huang, Sudan	Shenzhen Univ.
Zhang, Siyu	Southeast Univ.	► SatA09-4	14:30–14:50
Zhang, Hailong	North Univ. of China	⁰²¹² <i>Analysis of Velocity Characteristics and Compensation of Electromagnets for Medium-low Speed Maglev</i>	
Peng, Jiankun	Southeast Univ.	Liu, Fanglin	Southwest Jiaotong Univ.
SatA08	13:30–15:30	Wang, Ying	Southwest Jiaotong Univ.
Invited Session: 网联系统群体智能协同		Wu, Qian	Southwest Jiaotong Univ.
Chair: Bian, Yougang	Hunan Univ.	Liu, Shijie	Southwest Jiaotong Univ.
Co-Chair: Wang, He	Southeast Univ.	Chen, Shaozong	Southwest Jiaotong Univ.
Tencent Meeting ID:434-134-729		► SatA09-5	14:50–15:10
► SatA08-1	13:30–13:50		
⁰¹⁸¹ <i>Economic Connected Cruise Control of Electric CAVs Using DHP</i>			

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	Shang, Yunlong	Shandong Univ.	Song, Dafeng	Jilin Univ.
	► SatB03-3	16:30–16:50	SatB05	15:50–18:10 313
0137	<i>A Screening Method for Retired Lithium-ion Batteries Based on Naive Bayes</i>		Invited Session: States estimation and integrated control of intelligent electric vehicle	
	Huang, Bencheng	Changji Univ.	Chair: Li, Shaohua	Shijiazhuang Tiedao Univ.
	Fu, Xiaoling	Changji Univ.	Co-Chair: Zheng, Hongyu	Jilin Univ.
	Gu, Xin	Shandong Univ.	Tencent Meeting ID:670-202-128	
	Liu, Kailong	Queens Univ. Belfast	► SatB05-1	15:50–16:10
	Zhao, Wenyuan	Shandong Univ.	0032	<i>Research on Multi-objective Adaptive Cruise Algorithm Based on Commercial Vehicle</i>
	Shang, Yunlong	Shandong Univ.	Liu, Xiangzheng	Jilin Univ.
0240	► SatB03-4	16:50–17:10	Zheng, Hongyu	Jilin Univ.
	<i>Vehicle Speed Tracking in Bench Test Based on DDPG</i>		Zong, Changfu	Jilin Univ.
	Feng, Shengsong	Beijing Inst. of Tech.	Kaku, Chuyo	Jiangsu Chaoli Electric.co.Ltd
	Huang, Ying	Beijing Inst. of Tech.	Jiang, Tong	Jilin Univ.
	Wang, Jian	Beijing Inst. of Tech.	► SatB05-2	16:10–16:30
	Wang, Xu	Beijing Inst. of Tech.	0033	<i>Research on Electronic Differential Control Algorithm of Distributed Drive Electric Vehicles</i>
0401	► SatB03-5	17:10–17:30	Jiang, Tong	Jilin Univ.
	<i>Design and Test of Electro-mechanical Brake Experiment System</i>		Zheng, Hongyu	Jilin Univ.
	Jing, Houhua	Harbin Inst. of Tech.	Zong, Changfu	Jilin Univ.
	Feng, Ruixue	Harbin Inst. of Tech.	Kaku, Chuyo	Jiangsu Chaoli Electric.co.Ltd
	Lin, Qingan	Harbin Inst. of Tech.	Liu, Xiangzheng	Jilin Univ.
0248	► SatB03-6	17:30–17:50	► SatB05-3	16:30–16:50
	<i>A Gear Drive Brake-By-Wire Actuator</i>		0034	<i>Longitudinal Cruise Control of Truck Platoon Based on Distributed Sliding Mode Control Strategy</i>
	Bai, Xianxu	Hefei Univ. of Tech.	Cheng, Feihao	Jilin Univ.
	SatB04	15:50–17:50 310	Zheng, Hongyu	Jilin Univ.
	Invited Session: Environmental Perception and State Estimation		Gong, Chaofan	Jilin Univ.
	Chair: Li, Ying	Beijing Inst. of Tech.	Kaku, Chuyo	Jiangsu Chaoli Electric.co.Ltd
	Co-Chair: Li, Guofa	Shenzhen Univ.	► SatB05-4	16:50–17:10
	Tencent Meeting ID:785-424-236		0047	<i>Stability Coordination Control of Distributed Drive Vehicle Matching Mechanical Elastic Electric Wheel Based on Game Theory</i>
0063	► SatB04-1	15:50–16:10	Sun, Xinyu	Nanjing Univ. of Aeronautics & Astronautics
	<i>Deep Learning Based 3D Object Detection in Indoor Environments: A Review</i>		Zhao, Youqun	Nanjing Univ. of Aeronautics & Astronautics
	Jiang, Xiaohui	Beijing Inst. of Tech.	Lin, Fen	Nanjing Univ. of Aeronautics & Astronautics
	Han, Lijin	Beijing Inst. of Tech.	Zhang, Chenxi	Nanjing Univ. of Aeronautics & Astronautics
	Liu, Hui	Beijing Inst. of Tech.	Deng, Huifan	Nanjing Univ. of Aeronautics & Astronautics
	Nie, Shida	Beijing Inst. of Tech.	Feng, Zhaolong	Nanjing Univ. of Aeronautics & Astronautics
	Wang, Shihao	Beijing Inst. of Tech.	► SatB05-5	17:10–17:30
	Wen, Yan	Beijing Inst. of Tech.	0056	<i>Adaptive Backstepping Control with Nonlinear Disturbance Observer Design for Active Suspension and Mechanical Elastic Electric Wheel System</i>
0106	► SatB04-2	16:10–16:30	Xu, Tao	Nanjing Univ. of Aeronautics & Astronautics
	<i>A Real-Time LiDAR-IMU Loosely Coupled SLAM in Outdoor Environments</i>		Zhao, Youqun	Nanjing Univ. of Aeronautics & Astronautics
	Zhang, Geng	Beijing Inst. of Tech.	Lin, Fen	Nanjing Univ. of Aeronautics & Astronautics
	Yang, Chao	Beijing Inst. of Tech.	Li, Tian	Nanjing Univ. of Aeronautics & Astronautics
	Wang, Weida	Beijing Inst. of Tech.	Feng, Zhaolong	Nanjing Univ. of Aeronautics & Astronautics
	Xiang, Changle	Beijing Inst. of Tech.	► SatB05-6	17:30–17:50
	Li, Ying	Beijing Inst. of Tech.	0107	<i>AFS/DYC Control of In-Wheel Motor Drive Electric Vehicle with Adaptive Tire Cornering Stiffness</i>
0193	► SatB04-3	16:30–16:50	Li, Shaohua	Shijiazhuang Tiedao Univ.
	<i>An Effective Voxelization Method for LiDAR-based 3D Object Detection</i>		Yang, Zekun	Shijiazhuang Tiedao Univ.
	Wang, Rongxuan	Beijing Inst. of Tech.	► SatB05-7	17:50–18:10
	Yang, Chao	Beijing Inst. of Tech.	0144	<i>Vehicle State and Parameter Estimation Based on Improved Adaptive Dual Extended Kalman Filter with Variable Sliding Window</i>
	Wang, Weida	Beijing Inst. of Tech.	Sha, Zhujie	Nanjing Univ. of Aeronautics & Astronautics
	Xiang, Changle	Beijing Inst. of Tech.	Lin, Fen	Nanjing Univ. of Aeronautics & Astronautics
	Li, Ying	Beijing Inst. of Tech.	Zhao, Youqun	Nanjing Univ. of Aeronautics & Astronautics
0207	► SatB04-4	16:50–17:10	Ma, Shougang	Nanjing Univ. of Aeronautics & Astronautics
	<i>Low-light Traffic Objects Detection for Automated Vehicles</i>		SatB06	15:50–17:50 203
	Wang, Xuewei	Shijiazhuang Tiedao Univ.	Invited Session: Advanced Modeling, Analysis and Control for Electrified Vehicles	
	Wang, Dongmei	Shijiazhuang Tiedao Univ.	Chair: Jin, Xianjian	Shanghai Univ.
	Li, Siyuan	Shijiazhuang Tiedao Univ.	Co-Chair: Xu, Liwei	Southeast Univ.
	Li, Shaohua	Shijiazhuang Tiedao Univ.	Tencent Meeting ID:855-247-808	
	Zeng, Pengtian	Shijiazhuang Tiedao Univ.	► SatB06-1	15:50–16:10
	Liang, Xiao	Shijiazhuang Tiedao Univ.	0218	<i>Research on Obstacle Detection Methods of Unmanned Vehicles in Off-road Environment</i>
0326	► SatB04-5	17:10–17:30	Dong, Qingyu	Xiamen Univ.
	<i>Event Triggered State Estimation for Connected Vehicles with Packet Losses</i>		Wang, Jingyao	Xiamen Univ.
	Wang, Yan	Southeast Univ.	Guo, Jinghua	Xiamen Univ.
	Yin, Guodong	Southeast Univ.	► SatB06-2	16:10–16:30
	Chen, Lv	Nanyang Technological Univ.	0427	<i>A Novel Preview Tracking Control for Autonomous Vehicles under Delays and Disturbances</i>
	Zhiguo, Zhang	Southeast Univ.		
	Tian, Feng	Southeast Univ.		
	Zhang, Fengjiao	Southeast Univ.		
0343	► SatB04-6	17:30–17:50		
	<i>Shift Schedule Design of Thirty-two-speed Binary Logic Transmission Based on Man-vehicle-road System</i>			
	Zhou, Lanqi	Jilin Univ.		
	Zeng, Xiaohua	Jilin Univ.		
	Liang, Weizhi	Jilin Univ.		
	Yang, Dongpo	Jilin Univ.		

Cai, Guoshun	Southeast Univ.	0321	Uncertainty-Aware Motion Planning for Autonomous Driving on Highway	
Xu, Liwei	Southeast Univ.		Yang, Kai	Chongqing Univ.
Liu, Ying	Southeast Univ.		Tang, Xiaolin	Chongqing Univ.
Yin, Guodong	Southeast Univ.		Wang, Ming	Chongqing Univ.
► SatB06-3	16:30–16:50		Li, Shen	Tsinghua Univ.
0389	Energy Optimization of Extended-Range Electric Vehicles Based on Convex Programming Algorithm		Hu, Xiaosong	Chongqing Univ.
Hou, Shengyan	JiLin Univ.		► SatB07-6	17:30–17:50
Yin, Hai	Jilin Univ.	0430	Analytical Stability Region Estimation and Validation of Distributed Driving Electric Vehicle via SOSP	
Li, Kai	Jilin Univ.		Shen, Tong	Southeast Univ.
Gao, Jinwu	Jilin Univ.		Wang, Fanxun	Southeast Univ.
► SatB06-4	16:50–17:10		Yan, Yongjun	Southeast Univ.
0337	Fault Tolerant Control of Actuator Failure in Distributed Drive Electric Vehicle		Zhao, Mingzhao	Southeast Univ.
Niu, Limin	School of Mechanical Engineering, Anhui Univ. of Tech.		Ren, Yanjun	Southeast Univ.
			Yin, Guodong	Southeast Univ.
Zhang, Yiqi	Anhui Univ. of Tech.		SatB08	15:50–18:10 205
Lv, Jianmei	Anhui Univ. of Tech.		Invited Session: Platoon Control of Connected and Automated Vehicles	
Hu, Chao	Anhui Univ. of Tech.		Chair: Yu, Shuyou	Jilin Univ.
Wan, Lingchu	Anhui Univ. of Tech.		Co-Chair: He, Defeng	Zhejiang Univ. of Tech.
► SatB06-5	17:10–17:30		Tencent Meeting ID:434-134-729	
0276	Long Short-term Memory Network-based Optimized Control for Active Suspension System		► SatB08-1	15:50–16:10
Wang, Mingxiang	Xian Univ. of Tech.	0507	Integral Sliding-Mode Platoon Control for Connected Vehicles with Disturbance Observer	
Pang, Hui	Xi'an Univ. of Tech.		Chen, Han	Chongqing Univ. of Posts & Telecommunications
Wang, Lei	Xi'an Univ. of Tech.		Li, Yongfu	Chongqing Univ. of Posts & Telecommunications
Luo, Jibo	Xi'an Univ. of Tech.		Yu, Shuyou	College of Telecommunication Engineering of Jilin Univ.
► SatB06-6	17:30–17:50		Shi, Shuming	Jilin Univ.
0282	Observer-based Finite-time Platoon Control for Connected Vehicles		► SatB08-2	16:10–16:30
Du, Changkun	Beijing Inst. of Tech.	0162	Distributed Parametric MPC for String Stability of Heterogeneous Vehicle Platoons	
Liu, Haikuo	Beijing Inst. of Tech.		Zhang, Wencong	Zhejiang Univ. of Tech.
Li, Nannan	Beijing Inst. of Tech.		He, Defeng	Zhejiang Univ. of Tech.
Hu, Hengzai	Beijing Inst. of Tech.		Luo, Jie	Zhejiang Univ. of Tech.
Sun, Zhongqi	Beijing Inst. of Tech.		► SatB08-3	16:30–16:50
SatB07	15:50–17:50 204	0163	Distributed Economic MPC for Formation Control of Connected and Automated Vehicles	
Invited Session: Advanced intelligent control for autonomous vehicles			Yang, Haili	Zhejiang Univ. of Tech.
Chair: Tang, Xiaolin	Chongqing Univ.		He, Defeng	Zhejiang Univ. of Tech.
Co-Chair: Qin, Yechen	Beijing Inst. of Tech.		Mu, Jianbin	Zhejiang Univ. of Tech.
Tencent Meeting ID:537-907-132			Luo, Jie	Zhejiang Univ. of Tech.
► SatB07-1	15:50–16:10	0168	► SatB08-4	16:50–17:10
0053	A New Hierarchical Adaptive Cruise Control Considering Active Crash Avoidance for Automated Vehicles		基于数据驱动的商用车自适应巡航控制	
Zhang, Yu	Beijing Inst. of Tech.		Liu, Junting	Jilin Univ.
Qin, Yechen	Beijing Inst. of Tech.		Yu, Shuyou	Jilin Univ.
Wang, Zhenfeng	CATARC (Tianjin) Automotive Engineering Research Inst. Co., Ltd		Shi, Zhuqing	Jilin Univ.
			Gao, Xiaolong	Dongfeng Commercial Vehicle Tech. Center
Xu, Mingfan	Beijing Inst. of Tech.		► SatB08-5	17:10–17:30
Dong, Mingming	Beijing Inst. of Tech.	0208	MPC-based Control Methods for Driverless Mining Truck Platoons	
Gao, Li	Ligaobit@bit.edu.cn		Yang, Chunyu	China Univ. of Mining & Tech.
► SatB07-2	16:10–16:30		Tian, Wenju	China Univ. of Mining & Tech.
0084	Research on the Effect of Olfactory Stimulus Parameters on Awakening Effect of Driving Fatigue		► SatB08-6	17:30–17:50
Tang, Bangbei	Chongqing Univ. of Arts & Sci.	0399	Electric Vehicle Routing Optimization Considering the Inclines of Roads in Post-disaster Charging Relief	
Deng, Lingyun	Chongqing Univ. of Arts & Sci.		Liu, Qixing	Dalian Univ. of Tech.
Zhu, Mingxin	Sichuan Univ. of Tech.		Xu, Peng	Dalian Univ. of Tech.
Chen, Bingyan	Henan Univ. of Tech.		Wu, Yuhu	Dalian Univ. of Tech.
Chen, Hao	Chongqing Univ.		► SatB08-7	17:50–18:10
Lei, Qing	Chongqing Univ. of Arts & Sci.	0158	Multi-Sampling Phase Current Reconstruction and Error Suppression Strategy for AC Electric Drive System	
Wu, Yingzhang	Chongqing Univ.		Shen, Yongpeng	Zhengzhou Univ. of Light Industry
Cai, Wenjing	Cangzhou Mass Center		Liu, Di	Zhengzhou Univ. of Light Industry
► SatB07-3	16:30–16:50		Yuan, Xiaofang	Hunan Univ.
0140	Study on the Effect of Distracted Driving Task on Emergency Obstacle Avoidance Performance in the State of Fatigue		Zhang, Xizheng	Hunan Univ./Hunan Inst. of Engineering
Chen, Hao	Chongqing Normal Univ.		SatB09	15:50–17:50 206
You, Junhao	Chongqing Normal Univ.		Invited Session: Intelligent Vehicle Dynamics and Control	
Tang, Bangbei	Chongqing Univ. of Arts & Sci.		Chair: Zhang, Xinjie	Jilin Univ.
Hu, Guo	Chongqing Normal Univ.		Co-Chair: Sun, Chao	Beijing Inst. of Tech.
Liu, Hexuan	Chongqing Normal Univ.		Tencent Meeting ID:378-227-044	
► SatB07-4	16:50–17:10		► SatB09-1	15:50–16:10
0304	Analysis of Impact of Active Front Steering on Economical Performance of Four-wheel Independent Drive Electric Vehicles	0303	Yaw Stability Control of Distributed Drive Electric Vehicle Based on Torque Optimal Distribution in Ice and Snow Environment	
Yao, Chuyang	Chongqing Univ.		Kong, Debao	China FAW Corporation Limited
Fu, Chunyun	Chongqing Univ.		Liu, Chang	Jilin Univ.
Gao, Yan	Chongqing Univ.			
► SatB07-5	17:10–17:30			

Cui, Maoyuan	China FAW Corporation Limited	Li, Luoquan	Nanjing Univ. of Sci. & Tech.
Lv, Ying	China FAW Group Co. LTD	Wang, Hongliang	Nanjing Univ. of Sci. & Tech.
Liu, Kewang	China FAW Corporation Limited	Pi, Dawei	Nanjing Univ. of Sci. & Tech.
Guo, Hongyan	Jilin Univ.	Wang, Xianhui	Nanjing Univ. of Sci. & Tech.
► SatB09-2	16:10–16:30	Wang, Erjie	Nanjing Univ. of Sci. & Tech.
0292 <i>Robust Estimation of Freight Vehicle Mass and Road Slope under Complex Conditions</i>		Chen, Yongdan	China Northern Vehicle Research Inst.
Gao, Lin	Wuhan Univ. of Tech.	► SatB09-5	17:10–17:30
Wu, Qing	Wuhan Univ. of Tech.	0424 <i>Singular Value Decomposition Based Dual Unscented Kalman Filter Method for Vehicle Parameter and State Estimation</i>	
Yi, He	Wuhan Univ. of Tech.	Dong, Qingjiang	JiLinUniv.
► SatB09-3	16:30–16:50	Zhang, Xinjie	Jilin Univ.
0015 <i>Research on Roll Stability of All-terrain Forklifts Considering Different Road Types</i>		Zhang, Nianrui	JiLinUniv.
Xia, Yan	Hefei Univ. of Tech.	Wang, Luhang	JiLinUniv.
Xia, Guang	Hefei Univ. of Tech.	Guo, Konghui	Shanghai Jiaotong Univ., Shanghai 200240, China
► SatB09-4	16:50–17:10	► SatB09-6	17:30–17:50
0123 <i>Research on Torque Distribution Control of High-performance Distributed Drive Multi-axle Special Vehicle</i>		0379 <i>HMPC on Lifting Car Body via Asymmetric Damping Adjustment</i>	
		Yao, Jialing	Nanjing Forestry Univ.
		Cai, Chen	Nanjing Forestry Univ.

Sunday, October 30, 2022

SunA01		13:30–16:10	307
Regular Session: Benchmark Challenge for Energy Optimal Control of Connected EVs			
Chair: Xu,Nan		Jilin Univ.	
Co-Chair: Zhuang,Weichao		Southeast Univ.	
Tencent Meeting ID: 990-800-864			
► SunA01-1		13:30–13:50	
0258	Energy Optimal Control of Powertrain and Air Conditioning Systems for Connected EVs		
Chu, Hongqing	Tongji Univ.		
Luo, Xi	Tongji Univ.		
Hao, Zhengyi	Tongji Univ.		
Li, Xianning	Tongji Univ.		
Cheng, Yifan	Tongji Univ.		
Hong, Jinlong	Jilin Univ.		
Guo, Lulu	Tongji Univ.		
Gao, Bingzhao	Jilin Univ.		
► SunA01-2		13:50–14:10	
0215	Benchmark Study on Multi-Objective Hierarchical Energy Control Strategy of Connected EVs		
Zhang, Peng	Dalian Univ. of Tech.		
Liu, Chongfan	Dalian Univ. of Tech.		
Zhu, Jingyu	Dalian Univ. of Tech.		
► SunA01-3		14:10–14:30	
0307	Benchmark Challenge for Energy Optimal Control of Connected EVs		
Zhao, Junwei	Beihang Univ.		
Zhang, Zhaoyue	Beihang Univ.		
► SunA01-4		14:30–14:50	
0114	Robust Predictive Energy-saving Cruise Control of A Four-wheel Electric Vehicle with An Air Contioning System via A Generalized Proportional Integral Observer		
Wang, Jiangtong	Southeast Univ.		
Tong, Jiageng	Southeast Univ.		
Qian, Ziyuan	Southeast Univ.		
Yang, Junqin	Southeast Univ.		
Liu, Jinhao	Southeast Univ.		
Dai, Chen	Southeast Univ.		
Hao, Sun	Southeast Univ.		
Li, Shihua	Southeast Univ., China		
► SunA01-5		14:50–15:10	
0294	Research on Energy-saving Strategy of Car Following		
Wang, Cheng	Wuhan Univ. of Tech.		
Du, Kangqi	Wuhan Univ. of Tech.		
Zhu, Yifan	The Wuhan Univ. of Tech.		
► SunA01-6		15:10–15:30	
0211	An Improved MPC-based Energy Optimal Control of Connected EVs		
Yang, Liuquan	Beijing Inst. of Tech.		
Du, Xuelong	Beijing Inst. of Tech.		
Wang, Muyao	Beijing Inst. of Tech.		
Chen, Ruihu	Beijing Inst. of Tech.		
Lu, Zhexi	Beijing Inst. of Tech.		
Zhao, Bingquan	Beijing Inst. of Tech.		
Liu, Wei	Beijing Inst. of Tech.		
Zha, Mingjun	Beijing Inst. of Tech.		
► SunA01-7		15:30–15:50	
0265	Eco-adaptive Cruise Control for An Electric Connected Vehicle Based on Model Predictive Control and Quadratic Programming		
Cai, Jianjun	Chongqing Univ.		
Wu, Yitao	Chongqing Univ.		
Jie, Li	Chongqing Univ.		
Liu, Yonggang	Chongqing Univ.		
Zheng, Chen	Kunming Univ. of Sci. & Tech.		
► SunA01-8		15:50–16:10	
0074	考虑空调系统控制的电动汽车生态驾驶集成最优控制		
Wang, Haoran	Tongji Univ.		
Zhang, Zihan	Tongji Univ.		
Lei, Mingyue	Tongji Univ.		
SunA02		13:30–15:30	308
Invited Session: Prediction, Decision-Making and Vehicle-Driver Collaboration Technologies for Intelligent Vehicles in Critical Driving Conditions I			
Chair: Guo, Hongyan		Jilin Univ.	
Co-Chair: Zhang, Lin		Tongji Univ.	
Tencent Meeting ID: 811-402-891			
► SunA02-1		13:30–13:50	
0040	A Distributed Adaptive Data-driven Predictive Control for Heterogeneous Platoons with V2V Communication Trouble		
Guo, Jjingzheng	Jilin Univ.		
Guo, Hongyan	Jilin Univ.		
Meng, Qingyu	Jilin Univeristy		
Zhao, Xu	Jilin Univ.		
► SunA02-2		13:50–14:10	
0045	A Novel Decision-making Framework for Lane Change Considering Intentions of Traffic Participants		
Li, Bin	Tongji Univ.		
Zhang, Lin	Tongji Univ.		
Meng, Qiang	Tongji Univ.		
Pan, Wei	Tongji Univ.		
► SunA02-3		14:10–14:30	
0055	Risk-aware Deep Reinforcement Learning for Decision-making and Planning of Autonomous Vehicles		
Zeng, Lei	Hunan Univ.		
Hu, Wen	Hunan Univ.		
Zhang, Bangji	Hunan Univ.		
Wu, Yang	Tsinghua Univ.		
Cao, Dongpu	Cranfield Univ.		
► SunA02-4		14:30–14:50	
0061	The Coordinated Control of PHEV During Engine Starting in Pure Electric Driving Process		
Song, Pengxiang	Yanshan Univ.		
Song, Wenchuan	Yanshan Univ.		
► SunA02-5		14:50–15:10	
0095	Research on Model Predictive Control Trajectory Tracking Control Based on Matrix Blocking		
Xie, Xianyi	Yanshan Univ.		
Jin, Lisheng	Yanshan Universitu		
Guo, Baicang	Yanshan Univ.		
Wei, Qingsong	Yanshan Univ.		
Ma, Xiangsheng	Yanshan Univ.		
► SunA02-6		15:10–15:30	
0122	Revisiting Point Sampling in LiDAR-based 3D Object Detection		
Zhao, Xiaolong	Tongji Univ.		
Tian, Wei	Tongji Univ.		
SunA03		13:30–15:30	312
Invited Session: Advanced Automotive Powertrain Control in Connected Environment			
Chair: Xu, Fuguo		Tokyo City Univ.	
Co-Chair: Zhang, Jiangyan		Dalian Minzu Univ.	
Tencent Meeting ID: 967-176-897			
► SunA03-1		13:30–13:50	
0142	Predictive Energy Management Control for Hybrid Electric Vehicles Based on Speed Predictor with Optimized Hyper-Parameters		
He, Jingjing	Yanshan Univ.		
Chen, Xiaolong	Yanshan Univ.		
Jiao, Xiaohong	Yanshan Univ.		
Zhang, Yahui	Yanshan Univ.		
► SunA03-2		13:50–14:10	
0204	LQR-based Predictive Energy-saving Control for Commercial Vehicles Based on Slope Information		
Ren, Xianfeng	Weichai Power Co., Ltd		
Lv, Xianyong	Weichai Power Co., Ltd		
Zhang, Lubing	Weichai Power Co., Ltd		
Chen, Liping	Tongji Univ.		
Chu, Hongqing	Tongji Univ.		
Gao, Bingzhao	Jilin Univ.		
► SunA03-3		14:10–14:30	
0254	An Optimal Management Scheme for Connected Vehicles Merging at A Roundabout		
Zhang, Yao	Dalian Minzu Univ.		
Zhang, Jiangyan	Dalian Minzu Univ.		
Dong, Bin	Dalian MinZu Univ.		
► SunA03-4		14:30–14:50	
0284	Optimal Energy Efficiency Control for Large-Scale Connected HEVs		
Xu, Fuguo	Tokyo City Univ.		

	Shen, Tielong	Sophia Univ.	Wu, Jian	Liaocheng.Univ.
	► SunA03-5	14:50–15:10	Yin, Guodong	Southeast Univ.
0291	SunA05 13:30–15:30 313 Invited Session: Advanced Sensing and AI Technologies for Autonomous Vehicles			
	Lu, Yang	Hefei Univ. of Tech.	Chair: Huang, Yanjun	Tongji Univ.
	Li, Jiaqi	Hefei Univ. of Tech.	Co-Chair: Zhang, Dong	Brunel Univ. London
	Jiang, Weihai	Automotive Research Inst.	Tencent Meeting ID: 487-493-276	
	Zhu, Zhongwen	Hefei Univ. of Tech.		
	► SunA03-6	15:10–15:30	► SunA05-1	13:30–13:50
0050	Tire Blowout Behavior Simulation Evaluation for Escape Strategy of Vehicles with Model Predictive Control Approach			
	Guo, Niancheng	China National Heavy Duty Truck Group Co., Ltd	► 0278	Trajectory Tracking Control of Autonomous Vehicles Based on Reinforcement Learning and Curvature Feedforward
	Gao, Yang	China National Heavy Duty Truck Group Co., Ltd	Yang, Qiang	Liaoning Univ. of Tech.
	Song, Yitong	China National Heavy Duty Truck Group Co., Ltd	Li, Guiyuan	Liaoning Univ. of Tech.
	Li, Hao	Dalian Univ. of Tech.	Li, Gang	Liaoning Univ. of Tech.
	Shangguan, Jinyong	Dalian Univ. of Tech.	Liu, Yulin	LiaoNing Univ. of Tech.
	Yue, Ming	Dalian Univ. of Tech.	► SunA05-2	13:50–14:10
	SunA04 13:30–15:30 310		► 0281	Estimation of Tire-Road Friction Coefficient Based on the Unitire Model
	Invited Session: Modeling, learning and control in modern vehicle system dynamics			
	Chair: Wu, Jian	Liaocheng.Univ.	Gong, Chaofan	Jilin Univ.
	Co-Chair: Shao,Liang	Wenzhou Univ.	Zong, Changfu	Jilin Univ.
	Tencent Meeting ID: 917-282-725		Lu, Dang	Jilin Univ.
	► SunA04-1	13:30–13:50	Kaku, Chuyo	Jiangsu Chaoli Electric.co.Ltd
0313	Responses of Preview-based Vehicle Suspension System on Discrete Impact Roads			
	Qi, Shaodong	Hefei Univ. of Tech.	Zhang, Dong	Brunel Univ. London
	Li, Weiha	Hefei Univ. of Tech.	► SunA05-3	14:10–14:30
	Bai, Xianxu	Hefei Univ. of Tech.	► 0397	An Interpretation Framework for Autonomous Vehicles Decision-making via SHAP and RF
	► SunA04-2	13:50–14:10	Cui, Zhihao	Tongji Univ.
0352	Research on Adaptive Control of Input Time Delay for Vehicle Electronic Stability Control System			
	Wang, Shuai	Liaocheng Univ.	Li, Meng	Univ. of Jilin
	Fan, Zhixian	Tsinghua Univ.	Huang, Yanjun	Tongji Univ.
	Li, Baoli	Liaocheng Inst.s of Industrial Tech.	Wang, Yulei	Jilin Univ.
	Tang, Xinyu	Liaocheng Univeisty	Chen, Hong	Tongji Univ.
	Chen, Zhengfeng	Liaocheng Univ.	► SunA05-4	14:30–14:50
	Zhou, Qing	Liaocheng Univ.	► 0396	A Comparative Study of Quadrotor UAV Motion Control with Experimental Validation
	Wu, Jian	Liaocheng.Univ.	Li, Yuxue	Southeast Univ.
	► SunA04-3	14:10–14:30	Zhu, Xiaoyuan	Southeast Univ.
0354	Adaptive Angle Tracking Control Strategy for Electro-hydraulic Coupled Steering System			
	Han, Wentong	Liaocheng Univ.	► SunA05-5	14:50–15:10
	Bao, Chunjiang	Liaocheng Univ.	► 0283	Adaptive Speed Control of UAV Engine at High Altitude Based on Mode
	Fan, Zhixian	Tsinghua Univ.	Liu, Qinqiang	Tianjin Univ.
	Wu, Jian	Liaocheng.Univ.	Feng, Yifang	Tianjin Univ.
	Li, Baoli	Liaocheng Inst.s of Industrial Tech.	Qin, Tang	Tianjin Univ.
	Zhou, Qing	Liaocheng Univ.	Chen, Tao	Tianjin Univ.
	Li, Pengyuan	Liaocheng Univ.	► SunA05-6	15:10–15:30
	► SunA04-4	14:30–14:50	► 0309	A Predictive PHEV Energy Management Strategy Based on GRU and Enhanced Dynamic Programming
0355	Research on Control of AMT Shift Actuator Based on Backstepping			
	Wang, Shuai	Liaocheng Univ.	Jin, Yuanqiang	Tianjin Univ.
	Fan, Zhixian	Tsinghua Univ.	Chen, Tao	Tianjin Univ.
	Li, Baoli	Liaocheng Inst.s of Industrial Tech.	Chen, Daxin	Tianjin Univ.
	Gao, Shuying	Comprehensive Service Center of Agriculture, Forestry & Water	Gao, Yonghan	Tianjin Univ.
	Cui, Guanjie	Liaocheng Univ.	SunA06 13:30–15:30 203	
	Li, Pengyuan	Liaocheng Univ.	Regular Session: Automobile intelligence, automatic driving control I	
	Wu, Jian	Liaocheng.Univ.	Chair: Zhuang, Weichao	Southeast Univ.
	Yin, Chengqiang	Weifang Univ.	Co-Chair: Zhang, Ronghui	Sun Yat-sen Univ.
	► SunA04-5	14:50–15:10	Tencent Meeting ID: 221-241-873	
0383	Experimental Validation of Tire-road Friction Observer Based on Self-aligning Torque			
	Shao, Liang	Wenzhou Univ.	► SunA06-1	13:30–13:50
	Xiang, Jiawei	Wenzhou Univ.	► 0436	Multi-Mode Vehicle Automatic Braking System Based on Self-Learning Fuzzy Decision Algorithm with Environmental Impact Assessment
	Eichberger, Arno	Graz Univ. of Tech.	Wang, Zihan	Sun Yat-sen Univ.
	Lex, Cornelia	Graz Univ. of Tech.	Zhang, Ronghui	Sun Yat-sen Univ.
	► SunA04-6	15:10–15:30	►	SunA06-2
0409	Stability Analysis of A Closed-loop Articulated Vehicle System with Trailer Active Steering Based on LQR Control			
	Zhang, Qianchen	Southeast Univ.	► 0426	Optimal Control Strategy for Hybrid Vehicle Based on Event-triggered Model Predictive Control
	Zhang, Ning	Southeast Univ.	Chen, Shengru	Sun Yat-sen Univ.
	Wang, Zhiyu	Southeast Univ.	Zhang, Ronghui	Sun Yat-sen Univ.
	Zhang, Haobin	Southeast Univ.	► SunA06-3	14:10–14:30
			► 0425	Indoor Dynamic Navigation Method of Intelligent Vehicle Based on Ultra-wideband Positioning
			Zhang, Mengxiao	Jilin Univ.
			Zhang, Xinjie	Jilin Univ.
			Tan, Jiabao	Jilin Univ.
			Guo, Konghui	Shanghai Jiaotong Univ., Shanghai 200240, China
			Ye, Cong	Jilin Univ.
			► SunA06-4	14:30–14:50
			► 0290	Research on the Game-based Interaction Strategy between Human-machine

<i>Co-driving Vehicle and Autonomous Vehicle</i>		
Xie, Wenke	Chongqing Univ.	
Lu, Shaobo	Chongqing Univ.	
► SunA06-5	14:50–15:10	
0187 <i>Development of Typical Crash Scenarios for AEB-VRUs Testing Based on Accident Video Information</i>		
Yong, Han	Xiamen University of Tech.	
Yuan, Xiaobin	Xiamen Univ. of Tech.	
Hongyu, Cai	Xiamen University of Tech.	
► SunA06-6	15:10–15:30	
0133 <i>Probabilistic Prediction of Vehicle-Cyclist Collisions Based on Cyclist Motion Uncertainty</i>		
Pan, Di	Xiamen Univ.	
Yong, Han	Xiamen University of Tech.	
Tan, Xiaotian	Xiamen Univ. of Tech.	
Lu, Ming	Xiamen Univ. of Tech.	
SunA07	13:30–15:30	204
Regular Session: Automobile intelligence, automatic driving control II		
Chair: Zhu, Xiaoyuan	Southeast Univ.	
Co-Chair: Wang, Chao	North China Univ. of Tech.	
Tencent Meeting ID: 714-197-000		
► SunA07-1	13:30–13:50	
0164 <i>Decision Modeling of Lane Changing Behavior of Drivers Based on Imitation Learning</i>		
Li, Mingjun	Hunan Univ.	
Zhou, Bing	Hunan Univ.	
Gan, Nianfei	Hunan Univ.	
Huang, Zhikun	Hunan Univ.	
Pan, Qianxi	Hunan Univ.	
Ye, Shencun	Hunan Univ.	
► SunA07-2	13:50–14:10	
0432 <i>Lane-changing Trajectory Planning of Intelligent Electric Vehicle Based on Stability Region</i>		
Wang, Fanxun	Southeast Univ.	
Shen, Tong	Southeast Univ.	
Ren, Yanjun	Southeast Univ.	
Yin, Guodong	Southeast Univ.	
Zhao, Mingzhuo	Southeast Univ.	
Lu, Yanbo	Southeast Univ.	
► SunA07-3	14:10–14:30	
0407 <i>Longitudinal and Lateral Coordinated Control of Distributed Drive Electric Vehicles Based on Model Predictive Control</i>		
Yao, Yicheng	Southeast Univ.	
Yan, Yongjun	Southeast Univ.	
Lin, Peng	Southeast Univ.	
Dongming, Han	Southeast Univ.	
Wang, Jinxiang	Southeast Univ.	
Yin, Guodong	Southeast Univ.	
► SunA07-4	14:30–14:50	
0318 <i>Driving Style Recognition of Interacting Vehicles in Multiple Scenarios</i>		
Yang, Xiao	Lotus Robotics Ltd	
Bo, Li	Lotus Robotics Ltd	
Li, Houjian	Zhejiang Univ.	
Liu, Ao	Zhejiang Univ.	
Lyu, Hao	LOTUS INC	
Pan, Hao	Zhejiang Univ.	
Li, Daofei	Zhejiang Univ.	
► SunA07-5	14:50–15:10	
0121 <i>A Lateral Acceleration Prediction Model Based on Current Vehicle State</i>		
Li, Shaosong	Changchun Univ. of Tech.	
Wang, Xuyang	Changchun Univ. of Tech.	
Lu, Xiaohui	Changchun Univ. of Tech.	
Wang, Zaixiao	Changchun Univ. of Tech.	
Yu, Zhixin	Changchun Univ. of Tech.	
► SunA07-6	15:10–15:30	
0091 <i>Research on the Influence of the Depth and Width of YOLOv5 Network Structure on Traffic Signal Detection Performance</i>		
Wang, Chao	North China Univ. of Tech.	
Fan, Jingjing	North China Univ. of Tech.	
Liu, Zhuang	North China Univ. of Tech.	
Liu, Kuanwei	North China Univ. of Tech.	
SunA08	13:30–15:30	205
Regular Session: Automobile intelligence, automatic driving control III		
Chair: Zhang, Ning	Southeast Univ.	
Co-Chair: Li, Daofei	Zhejiang Univ.	
Tencent Meeting ID: 899-815-076		
► SunA08-1	13:30–13:50	
0373 <i>Research on Driving Style Recognition Model Considering Different Traffic Density and Driving Behavior</i>		
Xia, Niyang	Wuhan Univ. of Sci. & Tech.	
Yan, Yunbing	Wuhan Univ. of Sci. & Tech.	
Tang, Xuequan	Wuhan Univ. of Sci. & Tech.	
Zhang, Lin	Wuhan Univ. of Sci. & Tech.	
► SunA08-2	13:50–14:10	
0300 <i>Pedestrian Interaction Algorithm for Autonomous Vehicles Considering Crossing Intention and Driving Style</i>		
Li, Daofei	Zhejiang Univ.	
Jiang, Xin	Zhejiang Univ., Hangzhou, China	
Yang, Xiao	Lotus Robotics Ltd	
Bo, Li	Lotus Robotics Ltd	
Xiao, Bin	Zhejiang Univ.	
Zhang, Jiajie	Zhejiang Univ.	
Pan, Chuheng	Zhejiang Univ.	
Lyu, Hao	LOTUS INC	
► SunA08-3	14:10–14:30	
0262 <i>Longitudinal Collision Avoidance of Driverless Vehicles Based on Improved Risk Assessment</i>		
Xiao, Peng	Dalian Minzu Univ.	
Zhang, Tao	Dalian Nationalities Univ.	
Ge, Pingshu	Dalian Minzu Univ.	
Zhang, Haoyu	Dalian Minzu Univ.	
► SunA08-4	14:30–14:50	
0434 <i>Motion Planning Framework for Autonomous Vehicle with Surrounding Vehicle Motion Prediction in Highway Scenarios</i>		
Wang, Lei	Southeast Univ.	
Yin, Guodong	Southeast Univ.	
Xu, Liwei	Southeast Univ.	
Dong, Fengwei	Southeast Univ.	
Xu, Mingcheng	Southeastern Univ.	
He, Zhangcheng	Southeast Univ.	
► SunA08-5	14:50–15:10	
0429 <i>Time Optimal Trajectory Optimization for Vertical Parking of Heavy Duty Vehicle Based on Chebyshev Pseudospectral Method</i>		
Zhao, Mingzhuo	Southeast Univ.	
Yin, Guodong	Southeast Univ.	
Shen, Tong	Southeast Univ.	
Ren, Yanjun	Southeast Univ.	
Wang, Fanxun	Southeast Univ.	
Zhang, Yang	Hefei Univ. of Tech.	
► SunA08-6	15:10–15:30	
0391 <i>Assessment of Driving Task Complexity of Automated Vehicles Based on Information Entropy</i>		
Liu, Qi	Chongqing Univ.	
Yuan, Chang	Chongqing Univ.	
Zeng, Youheng	Chongqing Univ.	
Chai, Yi	Chongqing Univ.	
Shu, Hong	Chongqing Univ.	
SunA09	13:30–15:30	206
Regular Session: Automobile intelligence, automatic driving control IV		
Chair: Xu, Xing	Jiangsu Univ.	
Co-Chair: Miao, Xiaodong	Nanjing Tech Univ.	
Tencent Meeting ID: 343-932-895		
► SunA09-1	13:30–13:50	
0388 <i>An Integrated GNSS/INS/DR Positioning Strategy Considering Nonholonomic Constraints for Intelligent Vehicle</i>		
Chen, Guoying	JILIN Univ.	
Wang, Jiaqi	Jilin Univ.	
Hongyu, Hu	Jilin Univ.	
► SunA09-2	13:50–14:10	
0376 <i>Fault Diagnosis Strategy of Autonomous Steering System for Intelligent Vehicle Based on State Estimation</i>		
He, Shengguang	Jiangsu Univ.	
Xu, Xing	Jiangsu Univ.	
Xie, Ju	Jiangsu Univ.	
Wang, Feng	Jiangsu Univ.	
Liu, Zhenyu	Jiangsu Univ.	

► SunA09-3	14:10–14:30	Tian, Wei	Tongji Univ.
0364 <i>Deep Learning Based Nighttime Target Enhancement Detection Algorithm for Intelligent Vehicles</i>		► SunB02-2	16:10–16:30
Wu, Ze	NanJingTechUniv.	0166 <i>EMB-based Brake Failure Stability Control Strategy for Distributed Drive Electric Vehicles</i>	
Miao, Xiaodong	Nanjing Tech Univ.	Tang, Xianzhi	Yanshan Univ.
Li, Weiwen	Nanjing Tech Univ.	Shi, Longfei	Yanshan Univ.
Yu, Hu	Nanjing Tech Univ.	Wang, Bo	Yanshan Univ.
► SunA09-4	14:30–14:50	Xie, Yongjia	Yanshan Univ.
0351 <i>Design of Vehicle Speed Tracking Controller Based on UniTire Tire Model</i>		► SunB02-3	16:30–16:50
Lu, Henghui	Jilin Univ.(Campus NanLing)	0176 <i>A Lightweight Multiple Object Detection Algorithm for Roadside Perspective Based on YOLOv4</i>	
Fei, Wang	Jilin Univ.	Guo, Baicang	Yanshan Univ.
Guo, Hongyan	Jilin Univ.	Wang, Huanhuan	Yanshan Univ.
Lu, Dang	Jilin Univ.	Shi, Yewei	YanShan Univ.
Hong, Jinlong	Jilin Univ.	Xie, Xianyi	Yanshan Univ.
Wu, Zhijie	Jilin Univ.	Jin, Lisheng	Yanshan University
► SunA09-5	14:50–15:10	Zhang, Shunran	Jilin Univ.
0346 <i>Shared Steering Control System Subject to Human-Vehicle Uncertainty</i>		► SunB02-4	16:50–17:10
Xu, Quanning	Changan Univ.	0209 <i>Driving Style Recognition Considering Different Driving Scenes</i>	
► SunA09-6	15:10–15:30	Zhang, Lubing	Weichai Power Co., Ltd
0338 <i>Trajectory Tracking Control Design for Driverless Racing Car Considering Longitudinal Load Transfer</i>		Li, Guopeng	Weichai Power Co., Ltd
Zhu, Zhizhen	Southeast Univ.	Song, Yedong	Weichai Power Co., Ltd
Li, Rongcan	Southeast Univ.	Wang, Jialin	State Key Laboratory of Automotive Simulation & Control
Liu, Haoji	Southeast Univ.		
Liu, Ran	Southeast Univ.	Chu, Hongqing	Tongji Univ.
Zhuang, Weichao	Southeast Univ.	Chen, Hong	Tongji Univ.
Yin, Guodong	Southeast Univ.	► SunB02-5	17:10–17:30
SunA-online	13:30–15:10	0219 <i>Adaptive LQR Path Tracking Control for 4WS Electric Vehicles Based on Genetic Algorithm</i>	
Invited Session: Safe and Eco-driving of Intelligent Vehicles	Online	Lu, Ao	Tsinghua Univ.
Chair: Zhang, Yahui	Yanshan Univ.	Lu, Ziwang	Tsinghua Univ.
Co-Chair: Yang, Chao	Beijing Inst. of Tech.	Li, Runfeng	Tsinghua Univ.
Tencent Meeting ID: 776-506-715		Tian, Guangyu	Tsinghua Univ.
► SunA-online-1	13:30–13:50	► SunB02-6	17:30–17:50
0111 <i>Fuzzy Adaptive Cruise Control of Autonomous Vehicle and Prescan-MATLAB Co-simulation Verification</i>		0298 <i>Trajectory Prediction Method Involving Strong Map Coupling for Automated Vehicles</i>	
Liu, Huiwen	Yanshan Univ.	Cui, Maoyuan	China FAW Corporation Limited
Jiao, Xiaohong	Yanshan Univ.	Wang, Chao	FAW Group
Zhang, Yahui	Yanshan Univ.	Lv, Ying	China FAW Group Co. LTD
► SunA-online-2	13:50–14:10	Meng, Qingyu	Jilin Univeristy
0112 <i>Cooperative Adaptive Cruise Control with Compensating for Vehicle Actuator Delays Based on Internal Model Control</i>		Liu, He	Jilin Univ.
Bai, Jing	Yanshan Univ.	Guo, Hongyan	Jilin Univ.
Jiao, Xiaohong	Yanshan Univ.	► SunB02-7	17:50–18:10
Liu, Huiwen	Yanshan Univ.	0299 <i>Moving Horizon Path Planning for Intelligent Vehicle Oriented to Dynamic Obstacle Avoidance</i>	
Zhang, Yahui	Yanshan Univ.	Han, Jiaqi	China FAW Group Co
► SunA-online-3	14:10–14:30	Cui, Maoyuan	China FAW Corporation Limited
0202 <i>A Novel Energy Management Strategy for Connected Plug-in Hybrid Electric Vehicle Using Periodic Event-triggered Mechanism</i>		Lv, Ying	China FAW Group Co. LTD
Du, Xuelong	Beijing Inst. of Tech.	Liu, Kewang	China FAW Corporation Limited
Yang, Chao	Beijing Inst. of Tech.	Dai, Qikun	Jilin Univ.
Wang, Weida	Beijing Inst. of Tech.	Guo, Hongyan	Jilin Univ.
Yang, Liuquan	School of Mechanical Engineering	SunB03	15:50–17:50
► SunA-online-4	14:30–14:50	Invited Session: Advanced Technology in Automotive System	312
0203 <i>A Modified Distribution Algorithm for Four-Wheel Independent Drive Electric Vehicles under Actuator Faults</i>		Chair: Xu, Fuguo	Tokyo City Univ.
Hu, Biao	Beijing Inst. of Tech.	Co-Chair: Kang, Mingxin	Northeastern Univ
Wang, Weida	Beijing Inst. of Tech.	Tencent Meeting ID:967-176-897	
Yang, Chao	Beijing Inst. of Tech.	► SunB03-1	15:50–16:10
► SunA-online-5	14:50–15:10	0097 <i>Long-time Driving Style Recognition Using Gated Recurrent Unit with Attention</i>	
0234 <i>Vehicle Height and Posture Control of the Electronic Air Suspension System with Adjustable Damping Based on Hybrid Model</i>		Zhuang, Hejian	Tongji Univ.
Lv, Haoyu	China Agricultural Univ.	Jiang, Yuyao	Shanghai Customs College
Li, Quantong	Hunan Univ.	Cheng, Yifan	Jilin Univ.
Wang, Xiangyu	Tsinghua Univ.	Chu, Hongqing	Tongji Univ.
Xie, Bin	China Agricultural Univ.	Gao, Bingzhao	Jilin Univ.
SunB02	15:50–18:10	Chen, Hong	Tongji Univ.
Invited Session: Prediction, Decision-Making and Vehicle-Driver Collaboration Technologies for Intelligent Vehicles in Critical Driving Conditions II	308	► SunB03-2	16:10–16:30
Chair: Guo, Hongyan	Jilin Univ.	0156 <i>Path Following of Autonomous Vehicles Based on Adaptive Nonsingular Terminal Sliding Mode Control</i>	
Co-Chair: Chu, Hongqing	Tongji Univ.	Wei, Wang	Control Engineering
Tencent Meeting ID:811-402-891		Zhang, Ting	Yanshan Univ.
► SunB02-1	15:50–16:10	Jiao, Xiaohong	Yanshan Univ.
0147 <i>Improving Monocular Depth Estimation in Traffic Scenarios by Polarization</i>		Zhang, Yahui	Yanshan Univ.
Sun, Zhen	Tongji Univ.	► SunB03-3	16:30–16:50
		0179 <i>Seamless Indoor and Outdoor Positioning of Vehicles Based on RTK/UWB</i>	

Lv, Pengyuan		Tongji Univ.	Tencent Meeting ID:487-493-276	
Wang, Mingyang		Tongji Univ.	► SunB05-1	15:50–16:10
Jin, Baobao		Tongji Univ.	0080 <i>A Headlight Automatic Leveling System with Misadjustment Suppression</i>	
Shen, Yong		Tongji Univ.	Zhang, Hang	China FAW Group Corporation Changchun130012,China
► SunB03-4	16:50–17:10			
0243 <i>Performance Comparison between WonderSense and Xsens on Indoor and Outdoor Pedestrian Position Estimation Application</i>			Shi, Yunxia	China FAW Group Corporation
Yamagishi, Shunsei	The Univ. of Aizu		Shi, Zhiwei	China FAW Group Corporation
Lei, Jing	Univ. of Aizu		Song, Chao	China FAW Group Corporation
► SunB03-5	17:10–17:30		Yan, Xinxu	China FAW Group Corporation Changchun130012,China
0277 <i>Study on Parameter Optimization of Energy Management Strategy for Multi-mode Hybrid Power Bus</i>			Wu, Bin	Jilin Univ.
Li, Xin	Vechil		► SunB05-2	16:10–16:30
Zhang, Linchuan	Dalian Univ. of Tech.		0077 <i>A High-Level Radar and Vision Sensor Fusion for Autonomous Vehicle</i>	
Zhu, Jingyu	Dalian Univ. of Tech.		Wu, Dongmei	Wuhan Univ. of Tech.
► SunB03-6	17:30–17:50		Zhu, Yifan	Wuhan Univ. of Tech.
0308 <i>A Data-driven Estimation Model for Remaining Driving Range of Electric Vehicle</i>			Du, Changqing	Wuhan Univ. of Tech.
Tang, Xianyu	Northeastern Univ.		Liu, Xing	Dongfeng Commercial Vehicle
Yu, Shengping	Northeastern Univ.		► SunB05-3	16:30–16:50
Kang, Mingxin	Northeastern Univ.		0060 <i>A Graph-search Based Trajectory Planning Approach with Longitudinal Priority</i>	
SunB04	15:50–17:50	310	Guo, Rong	Tongji Univ.
Regular Session: Automobile intelligence, automatic driving control V			Yu, Shibo	Tongji Univ.
Chair: Lin, Fen	Nanjing Univ. of Aeronautics & Astronautics		► SunB05-4	16:50–17:10
Co-Chair: Chen, Gang	Nanjing Univ. of Sci. & Tech.		0036 <i>A Review of SOTIF Research for Human-machine Driving Mode Switch of Intelligent Vehicles</i>	
Tencent Meeting ID:917-282-725			Xu, Sichuan	Tongji Univ.
► SunB04-1	15:50–16:10		Ding, Hongjun	Tongji Univ.
0335 <i>Output Feedback Nonlinear Adaptive Steering Control of Driving Robot Vehicle with Model Uncertainty</i>			Du, Aimin	Tongji Univ.
Chen, Gang	Nanjing Univ. of Sci. & Tech.		Chu, Chuanchuan	Tongji Univ.
Guo, Keyi	Nanjing Univ. of Sci. & Tech.		Han, Yeyang	Tongji Univ.
Chen, Zhifeng	Nanjing Univ. of Sci. & Tech.		Li, Hongyun	Shanghai YuJie Intelligent Tech. Co., Ltd
Wang, Liangmo	Nanjing Univ. of Sci. & Tech.		Zhu, Zhongpan	Tongji Univ.
Zhang, Weigong	Southeast Univ.		► SunB05-5	17:10–17:30
► SunB04-2	16:10–16:30		0011 <i>Lane Line Detection Technology Based on OpenCV for Specific Scenarios</i>	
0214 <i>Construction of Test Scenarios for Automated Vehicles under Roundabout</i>			Liu, Wei	Yangzhou Univ.
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0196 <i>Decision-Making in Autonomous Driving by Reinforcement Learning Combined with Planning-control</i>			Zhou, Shaodong	Beihang Univ.
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0190 <i>Research on Local Real-time Obstacle Avoidance Path Planning of Unmanned Vehicle Based on Improved Artificial Potential Field Method</i>			Tencent Meeting ID:221-241-873	
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0085 <i>Coordinated Control of Path Tracking and Stability for Intelligent 4WID Electric Vehicle Based on Variable Prediction Horizon</i>			Bai, Xianxu	Hefei Univ. of Tech.
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0082 <i>An Adaptive Driving Beam System with Camera Information Correcting Technique</i>			Bai, Xu	College of Computer Sci. & Tech., Jilin Univ.
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			Song, Jiarui	Beijing Institute of Tech.
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0007	Applied Study on Functional Safety Limit Scenario Test of A Steering System Based on Whole Vehicle in the Loop		Xia, Guang	Hefei Univ. of Tech.
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0195 Predictive Control Strategy for Four-switch Buck-Boost Converter with Mode Smooth Transition			Shi, Zishuo	Hefei Univ. of Tech.
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	Ding, Wenlong	Shandong Univ.	Wang, Mingwei	Hefei Univ. of Tech.
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0067 Single Vehicle Energy Consumption Optimization of Online DC-driven Transportation System			He, Zejia	Hefei Univ. of Tech.
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