Shengbo Eben Li

List of Publications by Year
in descending order

181	11,982	28274	55	30087	103
papers	citations		h-index		g-index

183	183	183	6819
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A comparative study of equivalent circuit models for Li-ion batteries. Journal of Power Sources, 2012, 198, 359-367.	7.8	1,500
2	Combined State of Charge and State of Health estimation over lithium-ion battery cell cycle lifespan for electric vehicles. Journal of Power Sources, 2015, 273, 793-803.	7.8	528
3	Stability and Scalability of Homogeneous Vehicular Platoon: Study on the Influence of Information Flow Topologies. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 14-26.	8.0	510
4	Model Predictive Multi-Objective Vehicular Adaptive Cruise Control. IEEE Transactions on Control Systems Technology, 2011, 19, 556-566.	5.2	479
5	Distributed Model Predictive Control for Heterogeneous Vehicle Platoons Under Unidirectional Topologies. IEEE Transactions on Control Systems Technology, 2017, 25, 899-910.	5.2	383
6	String stability for vehicular platoon control: Definitions and analysis methods. Annual Reviews in Control, 2019, 47, 81-97.	7.9	316
7	Reinforcement Learning Optimized Look-Ahead Energy Management of a Parallel Hybrid Electric Vehicle. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1497-1507.	5.8	300
8	Dynamical Modeling and Distributed Control of Connected and Automated Vehicles: Challenges and Opportunities. IEEE Intelligent Transportation Systems Magazine, 2017, 9, 46-58.	3.8	270
9	Advanced Machine Learning Approach for Lithium-Ion Battery State Estimation in Electric Vehicles. IEEE Transactions on Transportation Electrification, 2016, 2, 140-149.	7.8	261
10	A Survey on Cooperative Longitudinal Motion Control of Multiple Connected and Automated Vehicles. IEEE Intelligent Transportation Systems Magazine, 2020, 12, 4-24.	3.8	189
11	Stability Margin Improvement of Vehicular Platoon Considering Undirected Topology and Asymmetric Control. IEEE Transactions on Control Systems Technology, 2016, 24, 1253-1265.	5.2	185
12	Fractional-order modeling and parameter identification for lithium-ion batteries. Journal of Power Sources, 2015, 293, 151-161.	7.8	174
13	Estimation of driving style in naturalistic highway traffic using maneuver transition probabilities. Transportation Research Part C: Emerging Technologies, 2017, 74, 113-125.	7.6	173
14	Robust control of heterogeneous vehicular platoon with uncertain dynamics and communication delay. IET Intelligent Transport Systems, 2016, 10, 503-513.	3.0	169
15	Robustness analysis of State-of-Charge estimation methods for two types of Li-ion batteries. Journal of Power Sources, 2012, 217, 209-219.	7.8	163
16	Reducing time headway for platooning of connected vehicles via V2V communication. Transportation Research Part C: Emerging Technologies, 2019, 102, 87-105.	7.6	163
17	Cooperative Method of Traffic Signal Optimization and Speed Control of Connected Vehicles at Isolated Intersections. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1390-1403.	8.0	162
18	Enhanced sample entropy-based health management of Li-ion battery for electrified vehicles. Energy, 2014, 64, 953-960.	8.8	151

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19	An overview of vehicular platoon control under the four-component framework. , 2015, , .		151
20	Distributed conflict-free cooperation for multiple connected vehicles at unsignalized intersections. Transportation Research Part C: Emerging Technologies, 2018, 93, 322-334.	7.6	149
21	Platooning of Connected Vehicles With Undirected Topologies: Robustness Analysis and Distributed H-infinity Controller Synthesis. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 1353-1364.	8.0	143
22	An electrochemistry-based impedance model for lithium-ion batteries. Journal of Power Sources, 2014, 258, 9-18.	7.8	140
23	A survey of powertrain configuration studies on hybrid electric vehicles. Applied Energy, 2020, 262, 114553.	10.1	135
24	Charging time and loss optimization for LiNMC and LiFePO4 batteries based on equivalent circuit models. Journal of Power Sources, 2013, 239, 449-457.	7.8	127
25	Online Detection of Driver Fatigue Using Steering Wheel Angles for Real Driving Conditions. Sensors, 2017, 17, 495.	3.8	127
26	Distributed Adaptive Sliding Mode Control of Vehicular Platoon With Uncertain Interaction Topology. IEEE Transactions on Industrial Electronics, 2018, 65, 6352-6361.	7.9	127
27	Minimum Fuel Control Strategy in Automated Car-Following Scenarios. IEEE Transactions on Vehicular Technology, 2012, 61, 998-1007.	6.3	125
28	State-of-Charge Estimation for Lithium-Ion Batteries Based on a Nonlinear Fractional Model. IEEE Transactions on Control Systems Technology, 2017, 25, 3-11.	5.2	121
29	Kalman filter-based tracking of moving objects using linear ultrasonic sensor array for road vehicles. Mechanical Systems and Signal Processing, 2018, 98, 173-189.	8.0	116
30	Eco-Departure of Connected Vehicles With V2X Communication at Signalized Intersections. IEEE Transactions on Vehicular Technology, 2015, 64, 5439-5449.	6.3	107
31	Hierarchical reinforcement learning for selfâ€driving decisionâ€making without reliance on labelled driving data. IET Intelligent Transport Systems, 2020, 14, 297-305.	3.0	107
32	Intention-aware Long Horizon Trajectory Prediction of Surrounding Vehicles using Dual LSTM Networks. , 2018, , .		102
33	Economy-oriented vehicle adaptive cruise control with coordinating multiple objectives function. Vehicle System Dynamics, 2013, 51, 1-17.	3.7	100
34	Fast Online Computation of a Model Predictive Controller and Its Application to Fuel Economyâ€“Oriented Adaptive Cruise Control. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 1199-1209.	8.0	99
35	Robust Longitudinal Control of Multi-Vehicle Systemsâ€”A Distributed H-Infinity Method. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2779-2788.	8.0	99
36	Decision making of autonomous vehicles in lane change scenarios: Deep reinforcement learning approaches with risk awareness. Transportation Research Part C: Emerging Technologies, 2022, 134, 103452.	7.6	97

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37	Multiple-Model Switching Control of Vehicle Longitudinal Dynamics for Platoon-Level Automation. IEEE Transactions on Vehicular Technology, 2016, 65, 4480-4492.	6.3	93
38	Detection of Driver Cognitive Distraction: A Comparison Study of Stop-Controlled Intersection and Speed-Limited Highway. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 1628-1637.	8.0	92
39	Coordinated Adaptive Cruise Control System With Lane-Change Assistance. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 2373-2383.	8.0	91
40	Distributed Platoon Control Under Topologies With Complex Eigenvalues: Stability Analysis and Controller Synthesis. IEEE Transactions on Control Systems Technology, 2019, 27, 206-220.	5.2	91
41	Influence of information flow topology on closed-loop stability of vehicle platoon with rigid formation. , 2014, , .		83
42	Robustness Analysis and Controller Synthesis of Homogeneous Vehicular Platoons With Bounded Parameter Uncertainty. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1014-1025.	5.8	83
43	Electro-hydraulic damper for energy harvesting suspension: Modeling, prototyping and experimental validation. Applied Energy, 2017, 199, 1-12.	10.1	82
44	Longitudinal collision mitigation via coordinated braking of multiple vehicles using model predictive control. Integrated Computer-Aided Engineering, 2015, 22, 171-185.	4.6	80
45	Strategies to minimize the fuel consumption of passenger cars during car-following scenarios. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2012, 226, 419-429.	1.9	79
46	Cooperation of Multiple Connected Vehicles at Unsignalized Intersections: Distributed Observation, Optimization, and Control. IEEE Transactions on Industrial Electronics, 2020, 67, 10744-10754.	7.9	79
47	State-space model with non-integer order derivatives for lithium-ion battery. Applied Energy, 2016, 161, 330-336.	10.1	77
48	Interpretable End-to-End Urban Autonomous Driving With Latent Deep Reinforcement Learning. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 5068-5078.	8.0	77
49	Efficient Exhaustive Search of Power-Split Hybrid Powertrains With Multiple Planetary Gears and Clutches. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	1.6	76
50	Interactive Trajectory Prediction of Surrounding Road Users for Autonomous Driving Using Structural-LSTM Network. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4615-4625.	8.0	76
51	Effect of Pulseâ€andâ€Glide Strategy on Traffic Flow for a Platoon of Mixed Automated and Manually Driven Vehicles. Computer-Aided Civil and Infrastructure Engineering, 2015, 30, 892-905.	9.8	69
52	Distributed Sliding Mode Control for Nonlinear Heterogeneous Platoon Systems With Positive Definite Topologies. IEEE Transactions on Control Systems Technology, 2020, 28, 1272-1283.	5.2	67
53	Field operational test of advanced driver assistance systems in typical Chinese road conditions: The influence of driver gender, age and aggression. International Journal of Automotive Technology, 2015, 16, 739-750.	1.4	66
54	Stabilizing Periodic Control of Automated Vehicle Platoon With Minimized Fuel Consumption. IEEE Transactions on Transportation Electrification, 2017, 3, 259-271.	7.8	66

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55	Centralized Cooperation for Connected and Automated Vehicles at Intersections by Proximal Policy Optimization. IEEE Transactions on Vehicular Technology, 2020, 69, 12597-12608.	6.3	66
56	Fuel-Optimal Cruising Strategy for Road Vehicles With Step-Gear Mechanical Transmission. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 3496-3507.	8.0	65
57	Design of Multimode Power-Split Hybrid Vehiclesâ€"A Case Study on the Voltec Powertrain System. IEEE Transactions on Vehicular Technology, 2016, 65, 4790-4801.	6.3	63
58	Performance Enhanced Predictive Control for Adaptive Cruise Control System Considering Road Elevation Information. IEEE Transactions on Intelligent Vehicles, 2017, 2, 150-160.	12.7	63
59	Estimation of vehicle sideslip angle and tire-road friction coefficient based on magnetometer with GPS. International Journal of Automotive Technology, 2016, 17, 427-435.	1.4	55
60	Fuel-Saving Cruising Strategies for Parallel HEVs. IEEE Transactions on Vehicular Technology, 2016, 65, 4676-4686.	6.3	55
61	Data-driven hierarchical control for online energy management of plug-in hybrid electric city bus. Energy, 2018, 142, 55-67.	8.8	55
62	Distributional Soft Actor-Critic: Off-Policy Reinforcement Learning for Addressing Value Estimation Errors. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 6584-6598.	11.3	55
63	Distributed model predictive control of multi-vehicle systems with switching communication topologies. Transportation Research Part C: Emerging Technologies, 2020, 118, 102717.	7.6	51
64	Predictive lateral control to stabilise highly automated vehicles at tire-road friction limits. Vehicle System Dynamics, 2020, 58, 768-786.	3.7	49
65	Simplification of pseudo two dimensional battery model using dynamic profile of lithium concentration. Journal of Power Sources, 2015, 286, 510-525.	7.8	47
66	Fuel-Saving Servo-Loop Control for an Adaptive Cruise Control System of Road Vehicles With Step-Gear Transmission. IEEE Transactions on Vehicular Technology, 2017, 66, 2033-2043.	6.3	47
67	Driver braking behavior analysis to improve autonomous emergency braking systems in typical Chinese vehicle-bicycle conflicts. Accident Analysis and Prevention, 2017, 108, 74-82.	5.7	47
68	Minimize the Fuel Consumption of Connected Vehicles Between Two Red-Signalized Intersections in Urban Traffic. IEEE Transactions on Vehicular Technology, 2018, 67, 9060-9072.	6.3	47
69	Cooperative Control of Heterogeneous Connected Vehicles with Directed Acyclic Interactions. IEEE Intelligent Transportation Systems Magazine, 2021, 13, 127-141.	3.8	47
70	Instantaneous Feedback Control for a Fuel-Prioritized Vehicle Cruising System on Highways With a Varying Slope. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 1210-1220.	8.0	45
71	Platoon Control of Connected Vehicles from a Networked Control Perspective: Literature Review, Component Modeling, and Controller Synthesis. IEEE Transactions on Vehicular Technology, 2024, , 1-1.	6.3	43
72	A Unified Pseudospectral Computational Framework for Optimal Control of Road Vehicles. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1499-1510.	5.8	42

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73	Detection of road traffic participants using cost-effective arrayed ultrasonic sensors in low-speed traffic situations. Mechanical Systems and Signal Processing, 2019, 132, 535-545.	8.0	42
74	Terminal sliding mode control of automated car-following system without reliance on longitudinal acceleration information. Mechatronics, 2015, 30, 327-337.	3.3	41
75	Drift control for cornering maneuver of autonomous vehicles. Mechatronics, 2018, 54, 167-174.	3.3	41
76	Distributed sliding mode control for multi-vehicle systems with positive definite topologies. , 2016, , .		40
77	Economical launching and accelerating control strategy for a single-shaft parallel hybrid electric bus. Mechanical Systems and Signal Processing, 2016, 76-77, 649-664.	8.0	39
78	Indirect Shared Control for Cooperative Driving Between Driver and Automation in Steer-by-Wire Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 7826-7836.	8.0	37
79	Robust Distributed Consensus Control of Uncertain Multiagents Interacted by Eigenvalue-Bounded Topologies. IEEE Internet of Things Journal, 2020, 7, 3790-3798.	8.7	35
80	Driver-automation indirect shared control of highly automated vehicles with intention-aware authority transition. , 2017, , .		34
81	Adaptive dynamic programming for nonaffine nonlinear optimal control problem with state constraints. Neurocomputing, 2022, 484, 128-141.	5.9	33
82	End-to-End Autonomous Driving Through Dueling Double Deep Q-Network. Automotive Innovation, 2021, 4, 328-337.	5.1	31
83	Mechanism of vehicular periodic operation for optimal fuel economy in freeâ€driving scenarios. IET Intelligent Transport Systems, 2015, 9, 306-313.	3.0	29
84	Lane change maneuver recognition via vehicle state and driver operation signals — Results from naturalistic driving data. , 2015, , .		28
85	Understanding Driver Response Patterns to Mental Workload Increase in Typical Driving Scenarios. IEEE Access, 2018, 6, 35890-35900.	4.2	26
86	Eco-Driving Operation of Connected Vehicle With V2I Communication Among Multiple Signalized Intersections. IEEE Intelligent Transportation Systems Magazine, 2021, 13, 107-119.	3.8	26
87	Synthesis of Robust Lane Keeping Systems: Impact of Controller and Design Parameters on System Performance. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3129-3141.	8.0	25
88	Strategies to minimize fuel consumption of passenger cars during car-following scenarios. , 2011, , .		24
89	Enable faster and smoother spatio-temporal trajectory planning for autonomous vehicles in constrained dynamic environment. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2021, 235, 1101-1112.	1.9	24
90	Automated Modeling and Mode Screening for Exhaustive Search of Double-Planetary-Gear Power Split Hybrid Powertrains. , 2014, , .		23

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91	Markov probabilistic decision making of self-driving cars in highway with random traffic flow: a simulation study. Journal of Intelligent and Connected Vehicles, 2018, 1, 77-84.	7.4	23
92	Safe Reinforcement Learning for Autonomous Vehicles through Parallel Constrained Policy Optimization. , 2020, , .		23
93	Modeling and verification of heavy-duty truck driversâ€™ car-following characteristics. International Journal of Automotive Technology, 2010, 11, 81-87.	1.4	22
94	Synthesis of multiple model switching controllers using <mml:math altimg="si0001.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co	5.9	20
95	From Software-Defined Vehicles to Self-Driving Vehicles: A Report on CPSS-Based Parallel Driving. IEEE Intelligent Transportation Systems Magazine, 2019, 11, 6-14.	3.8	20
96	Behavioral Harmonization of a Cyclic Vehicular Platoon in a Closed Road Network. IEEE Transactions on Intelligent Vehicles, 2021, 6, 559-570.	12.7	20
97	Decoupled robust control of vehicular platoon with identical controller and rigid information flow. International Journal of Automotive Technology, 2017, 18, 157-164.	1.4	19
98	Effects of Human Adaptation and Trust on Shared Control for Driver-Automation Cooperative Driving. , 0, , .		19
99	Effectiveness of Flashing Brake and Hazard Systems in Avoiding Rear-End Crashes. Advances in Mechanical Engineering, 2014, 6, 792670.	1.6	19
100	Parallel Optimal Control for Cooperative Automation of Large-scale Connected Vehicles via ADMM. , 2018, , .		18
101	Detection of driver cognitive distraction: An SVM based real-time algorithm and its comparison study in typical driving scenarios. , 2016, , .		17
102	Integrated Decision and Control: Toward Interpretable and Computationally Efficient Driving Intelligence. IEEE Transactions on Cybernetics, 2023, 53, 859-873.	9.5	17
103	Robust cooperation of connected vehicle systems with eigenvalue-bounded interaction topologies in the presence of uncertain dynamics. Frontiers of Mechanical Engineering, 2018, 13, 354-367.	4.3	16
104	Realâ€time coordination of connected vehicles at intersections using graphical mixed integer optimization. IET Intelligent Transport Systems, 2021, 15, 795-807.	3.0	16
105	Learning-based supervisory control of dual mode engine-based hybrid electric vehicle with reliance on multivariate trip information. Energy Conversion and Management, 2022, 257, 115450.	9.2	16
106	Continuous Decision Making for On-road Autonomous Driving under Uncertain and Interactive Environments. , 2018, , .		15
107	Synchronous and asynchronous parallel computation for large-scale optimal control of connected vehicles. Transportation Research Part C: Emerging Technologies, 2020, 121, 102842.	7.6	15
108	Self-learning drift control of automated vehicles beyond handling limit after rear-end collision. Transportation Safety and Environment, 2020, 2, 97-105.	2.1	15

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109	Safety envelope of pedestrians upon motor vehicle conflicts identified via active avoidance behaviour. Scientific Reports, 2021, 11, 3996.	3.3	15
110	Fuel Economy Optimization for Platooning Vehicle Swarms via Distributed Economic Model Predictive Control. IEEE Transactions on Automation Science and Engineering, 2022, 19, 2711-2723.	5.2	15
111	Multi-objective coordinated control for advanced adaptive cruise control system. , 2009, , .		14
112	Driving simulation platform applied to develop driving assistance systems. IET Intelligent Transport Systems, 2010, 4, 121.	3.0	14
113	Legendre pseudospectral computation of optimal speed profiles for vehicle eco-driving system. , 2014, , .		14
114	Design and control of a passive magnetic levitation carrier system. International Journal of Precision Engineering and Manufacturing, 2015, 16, 693-700.	2.2	14
115	Efficient and accurate computation of model predictive control using pseudospectral discretization. Neurocomputing, 2016, 177, 363-372.	5.9	14
116	Indirect Shared Control Through Non-Zero Sum Differential Game for Cooperative Automated Driving. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 15980-15992.	8.0	14
117	Periodicity based cruising control of passenger cars for optimized fuel consumption. , 2014, , .		13
118	Multiple-Vehicle Longitudinal Collision Mitigation by Coordinated Brake Control. Mathematical Problems in Engineering, 2014, 2014, 1-13.	1.1	12
119	Measurement Dissemination-Based Distributed Bayesian Filter Using the Latest-In-and-Full-Out Exchange Protocol for Networked Unmanned Vehicles. IEEE Transactions on Industrial Electronics, 2017, 64, 8756-8766.	7.9	12
120	Impact of Communication Erasure Channels on Control Performance of Connected and Automated Vehicles. IEEE Transactions on Vehicular Technology, 2018, 67, 29-43.	6.3	12
121	Reducing Time Headway for Platoons of Connected Vehicles via Multiple-Predecessor Following. , 2018, , .		12
122	Pedestrian Trajectory Prediction with Learning-based Approaches: A Comparative Study. , 2019, , .		12
123	Dynamical tracking of surrounding objects for road vehicles using linearly-arrayed ultrasonic sensors. , 2016, , .		11
124	Accelerated Inverse Reinforcement Learning with Randomly Pre-sampled Policies for Autonomous Driving Reward Design. , 2019, , .		11
125	Analysis of Motion Sickness Associated Brain Activity Using fNIRS: A Driving Simulator Study. IEEE Access, 2020, 8, 207415-207425.	4.2	11
126	NARX modelling of a lithium iron phosphate battery used for electrified vehicle simulation. International Journal of Modelling, Identification and Control, 2013, 20, 181.	0.2	10

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127	Sensitivity of Electrodermal Activity Features for Driver Arousal Measurement in Cognitive Load: The Application in Automated Driving Systems. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 14954-14967.	8.0	10
128	Improving Generalization of Reinforcement Learning with Minimax Distributional Soft Actor-Critic. , 2020, , .		10
129	Scalability limitation of homogeneous vehicular platoon under undirected information flow topology and constant spacing policy. , 2015, , .		9
130	Automotive Air Conditioning. , 2016, , .		9
131	Control of large model mismatch systems using multiple models. International Journal of Control, Automation and Systems, 2017, 15, 1494-1506.	2.7	9
132	Direct and indirect reinforcement learning. International Journal of Intelligent Systems, 2021, 36, 4439-4467.	5.7	9
133	Exploring Behavioral Patterns of Lane Change Maneuvers for Human-Like Autonomous Driving. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 14322-14335.	8.0	9
134	Continuous-time finite-horizon ADP for automated vehicle controller design with high efficiency. , 2020, , .		9
135	Control of a heterogeneous vehicular platoon with uniform communication delay. , 2015, , .		7
136	Hierarchical quantitative analysis to evaluate unsafe driving behaviour from massive trajectory data. IET Intelligent Transport Systems, 2020, 14, 849-856.	3.0	7
137	Stability of General Linear Dynamic Multi-Agent Systems under Switching Topologies with Positive Real Eigenvalues. Engineering, 2020, 6, 688-694.	6.7	7
138	Separated Proportional-Integral Lagrangian for Chance Constrained Reinforcement Learning. , 2021, , .		7
139	Real-time energy optimization of HEVs under-connected environment: a benchmark problem and receding horizon-based solution. Control Theory and Technology, 2022, 20, 145-160.	1.6	7
140	Driving Maneuvers Analysis Using Naturalistic Highway Driving Data. , 2015, , .		6
141	The impact of driver cognitive distraction on vehicle performance at stop-controlled intersections. , 2015, , .		6
142	Distributed Bayesian Filter Using Measurement Dissemination for Multiple Unmanned Ground Vehicles With Dynamically Changing Interaction Topologies. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	1.6	6
143	Optimal Periodic Control of Connected Multiple Vehicles With Heterogeneous Dynamics and Guaranteed Bounded Stability. IEEE Intelligent Transportation Systems Magazine, 2020, 12, 110-124.	3.8	6
144	Feasibility Enhancement of Constrained Receding Horizon Control Using Generalized Control Barrier Function. , 2021, , .		6

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145	Model-Based Chance-Constrained Reinforcement Learning via Separated Proportional-Integral Lagrangian. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 466-478.	11.3	6
146	MPC based vehicular following control considering both fuel economy and tracking capability. , 2008, , .		5
147	Accelerated Convergence of Time-Splitting Algorithm for MPC using Cross-Node Consensus. , 2020, , .		5
148	Model-Based Actor-Critic with Chance Constraint for Stochastic System. , 2021, , .		5
149	Study on robustness and feasibility of MPC based vehicular Adaptive Cruise Control system. , 2009, , .		4
150	Model Predictive Control-Based Probabilistic Search Method for Autonomous Ground Robot in a Dynamic Environment. , 2015, , .		4
151	Optimization Based Trajectory Planning of Parallel Parking with Multiple Constraints. SAE International Journal of Passenger Cars - Electronic and Electrical Systems, 2015, 8, 413-418.	0.3	4
152	Vehicle-to-Infrastructure Communication Based Eco-Driving Operation at Multiple Signalized Intersections. , 2016, , .		4
153	A Stability-Based Clustering Scheme for Vehicular Networks. , 2020, , .		4
154	A framework for rapid on-board deterministic estimation of occupant injury risk in motor vehicle crashes with quantitative uncertainty evaluation. Science China Technological Sciences, 2021, 64, 521-534.	4.0	4
155	Learn collision-free self-driving skills at urban intersections with model-based reinforcement learning. , 2021, , .		4
156	Mixed Reinforcement Learning for Efficient Policy Optimization in Stochastic Environments. , 2020, , .		4
157	Multisource Adaption for Driver Attention Prediction in Arbitrary Driving Scenes. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 20912-20925.	8.0	4
158	Pneumatic electronic braking assistance system using high-speed valves. , 2010, , .		3
159	Distributed target localization using a group of UGVs under dynamically changing interaction topologies. , 2016, , .		3
160	Recent Advances in Nonsingular Terminal Sliding Mode Control Method. Lecture Notes in Control and Information Sciences, 2014, , 79-97.	1.0	3
161	Recurrent Model Predictive Control: Learning an Explicit Recurrent Controller for Nonlinear Systems. IEEE Transactions on Industrial Electronics, 2022, 69, 10437-10446.	7.9	3
162	Integrated decision and control at multi-lane intersections with mixed traffic flow. Journal of Physics: Conference Series, 2022, 2234, 012015.	0.4	3

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163	A driving simulation platform applied to develop Driver Assistance Systems. , 2009, , .		2
164	Double-Mode vehicular Electronic Throttle for driver assistance systems. , 2009, , .		2
165	Pseudospectral Optimal Control of Constrained Nonlinear Systems. , 2016, , 145-164.		2
166	Belief state separated reinforcement learning for autonomous vehicle decision making under uncertainty. , 2021, , .		2
167	Fixed-Dimensional and Permutation Invariant State Representation of Autonomous Driving. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 9518-9528.	8.0	2
168	A Novel Longitudinal Speed Estimator for Fully Automation Ground Vehicle on Cornering Maneuver. , 2009, , .		1
169	Distributed Bayesian filters for multi-vehicle network by using Latest-In-and-Full-Out exchange protocol of measurements. , 2017, , .		1
170	Optimization and Analysis of Economical Accelerating Strategy for CVT Vehicles. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2015, 51, 110.	0.5	1
171	Reinforced Optimal Estimator. IFAC-PapersOnLine, 2021, 54, 366-373.	0.9	1
172	Accelerated convergence of timeâ€splitting algorithm by relaxation method. IET Control Theory and Applications, 2022, 16, 776-788.	2.1	1
173	Scale reduction based efficient model predictive control and its application in vehicle following control. , 2013, , .		0
174	Performance enhancement of supervisory control for largely mismatched processes. , 2015, , .		0
175	Robust Accelerating Control for Consistent Node Dynamics in a Platoon of CAVs. , 2016, , .		0
176	Cruising Control of Hybridized Powertrain for Minimized Fuel Consumption. , 2016, , 267-289.		0
177	Fuel Economy Analysis of Periodic Cruise Control Strategies for Power-Split HEVs at Medium and Low Speed. , 0, , .		0
178	Cover: International Journal of Intelligent Systems, Volume 36 Issue 8 August 2021. International Journal of Intelligent Systems, 2021, 36, i.	5.7	0
179	Trustworthy Foundation for CAVs in an Uncertain World: From Wireless Networking, Sensing, and Control to Software-Defined Infrastructure. Lecture Notes in Mobility, 2016, , 211-223.	0.2	0
180	Beyond backpropagate through time: Efficient modelâ€based training through timeâ€splitting. International Journal of Intelligent Systems, 0, , .	5.7	0

#	Article	IF	Citations
181	Applications of Distributional Soft Actor-Critic in Real-world Autonomous Driving. , 2022, , .		0