

# Keqiang Li

## List of Publications by Year in descending order

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105  
papers

4,259  
citations

172207

29  
h-index

123241

61  
g-index

105  
all docs

105  
docs citations

105  
times ranked

3232  
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Lateral Trajectory Following Control of Unmanned Vehicle Based on Model Predictive Control. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1278-1287.	3.7	41
2	Safe and Energy-Efficient Car-Following Control Strategy for Intelligent Electric Vehicles Considering Regenerative Braking. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7070-7081.	4.7	26
3	An End-to-End Multi-Task Learning Model for Drivable Road Detection via Edge Refinement and Geometric Deformation. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 8641-8651.	4.7	8
4	Humanlike Decision and Motion Planning for Expressway Lane Changing Based on Artificial Potential Field. IEEE Access, 2022, 10, 4359-4373.	2.6	13
5	Real-Time Monocular Joint Perception Network for Autonomous Driving. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 15864-15877.	4.7	6
6	Eco-Driving Operation of Connected Vehicle With V2I Communication Among Multiple Signalized Intersections. IEEE Intelligent Transportation Systems Magazine, 2021, 13, 107-119.	2.6	26
7	Applications of Game Theory in Vehicular Networks: A Survey. IEEE Communications Surveys and Tutorials, 2021, 23, 2660-2710.	24.8	22
8	Behavioral Harmonization of a Cyclic Vehicular Platoon in a Closed Road Network. IEEE Transactions on Intelligent Vehicles, 2021, 6, 559-570.	9.4	20
9	Interpretable Decision-Making for Autonomous Vehicles at Highway On-Ramps With Latent Space Reinforcement Learning. IEEE Transactions on Vehicular Technology, 2021, 70, 8707-8719.	3.9	27
10	Neural-Fuzzy-Based Adaptive Sliding Mode Automatic Steering Control of Vision-based Unmanned Electric Vehicles. Chinese Journal of Mechanical Engineering (English Edition), 2021, 34, .	1.9	6
11	An Advanced Lane-Keeping Assistance System With Switchable Assistance Modes. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 385-396.	4.7	41
12	Online Offloading Scheduling and Resource Allocation Algorithms for Vehicular Edge Computing System. IEEE Access, 2020, 8, 52428-52442.	2.6	22
13	Robust H <sub>∞</sub> Fault-Tolerant Lateral Control of Four-Wheel-Steering Autonomous Vehicles. International Journal of Automotive Technology, 2020, 21, 993-1000.	0.7	9
14	A Stability-Based Clustering Scheme for Vehicular Networks. , 2020, , .		4
15	Robust lateral control of autonomous four-wheel independent drive electric vehicles considering the roll effects and actuator faults. Mechanical Systems and Signal Processing, 2020, 143, 106773.	4.4	42
16	Adaptive non-linear coordinated optimal dynamic platoon control of connected autonomous distributed electric vehicles on curved roads. IET Intelligent Transport Systems, 2020, 14, 1626-1637.	1.7	9
17	Fast and robust approaches for lane detection using multi-camera fusion in complex scenes. IET Intelligent Transport Systems, 2020, 14, 1582-1593.	1.7	3
18	Probabilistic Long-term Vehicle Trajectory Prediction via Driver Awareness Model. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
19	Robust gain-scheduling automatic steering control of unmanned ground vehicles under velocity-varying motion. <i>Vehicle System Dynamics</i> , 2019, 57, 595-616.	2.2	66
20	Adaptive dynamic surface longitudinal tracking control of autonomous vehicles. <i>IET Intelligent Transport Systems</i> , 2019, 13, 1272-1280.	1.7	5
21	Recurrent Neural Network Architectures for Vulnerable Road User Trajectory Prediction. , 2019, , .		5
22	Multi-Stage Residual Fusion Network for LIDAR-Camera Road Detection. , 2019, , .		11
23	A Vehicle Type Dependent Car-following Model Based on Naturalistic Driving Study. <i>Electronics (Switzerland)</i> , 2019, 8, 453.	1.8	18
24	Continuous Pedestrian Orientation Estimation using Human Keypoints. , 2019, , .		7
25	An adaptive cascade trajectory tracking control for over-actuated autonomous electric vehicles with input saturation. <i>Science China Technological Sciences</i> , 2019, 62, 2153-2160.	2.0	8
26	Double-layer speed optimization for reducing fuel consumption with vehicle-to-infrastructure communication. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2019, 23, 513-524.	2.6	13
27	Robust Combined Lane Keeping and Direct Yaw Moment Control for Intelligent Electric Vehicles with Time Delay. <i>International Journal of Automotive Technology</i> , 2019, 20, 289-296.	0.7	31
28	Manoeuvre prediction and planning for automated and connected vehicles based on interaction and gaming awareness under uncertainty. <i>IET Intelligent Transport Systems</i> , 2019, 13, 933-941.	1.7	7
29	Emergency Steering Evasion Assistance Control Based on Driving Behavior Analysis. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019, 20, 457-475.	4.7	28
30	Real-Time Energy-Efficient Control for Fully Electric Vehicles Based on an Explicit Model Predictive Control Method. <i>IEEE Transactions on Vehicular Technology</i> , 2018, 67, 4693-4701.	3.9	40
31	Robust cooperation of connected vehicle systems with eigenvalue-bounded interaction topologies in the presence of uncertain dynamics. <i>Frontiers of Mechanical Engineering</i> , 2018, 13, 354-367.	2.5	16
32	Distributed Adaptive Sliding Mode Control of Vehicular Platoon With Uncertain Interaction Topology. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 6352-6361.	5.2	127
33	Coordinated path-following and direct yaw-moment control of autonomous electric vehicles with sideslip angle estimation. <i>Mechanical Systems and Signal Processing</i> , 2018, 105, 183-199.	4.4	172
34	Object Classification Using CNN-Based Fusion of Vision and LIDAR in Autonomous Vehicle Environment. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 4224-4231.	7.2	359
35	Analysis of Cooperative Driving Strategies for Nonsignalized Intersections. <i>IEEE Transactions on Vehicular Technology</i> , 2018, 67, 2900-2911.	3.9	112
36	Vehicle Trajectory Prediction by Integrating Physics- and Maneuver-Based Approaches Using Interactive Multiple Models. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 5999-6008.	5.2	230

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37	Crash probability estimation via quantifying driver hazard perception. Accident Analysis and Prevention, 2018, 116, 116-125.	3.0	22
38	Robust Longitudinal Control of Multi-Vehicle Systemsâ€”A Distributed H-Infinity Method. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2779-2788.	4.7	99
39	An Adaptive Hierarchical Trajectory Following Control Approach of Autonomous Four-Wheel Independent Drive Electric Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2482-2492.	4.7	123
40	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.	4.7	143
41	Parallel Optimal Control for Cooperative Automation of Large-scale Connected Vehicles via ADMM. , 2018, , .		18
42	Reducing Time Headway for Platoons of Connected Vehicles via Multiple-Predecessor Following. , 2018, , .		12
43	Adaptive coordinated collision avoidance control of autonomous ground vehicles. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2018, 232, 1120-1133.	0.7	7
44	Vehicle deformation depth based injury risk function for safety benefit evaluation of crash avoidance and mitigation systems. IET Intelligent Transport Systems, 2018, 12, 386-393.	1.7	4
45	Adaptive nonâ€”linear trajectory tracking control for lane change of autonomous fourâ€”wheel independently drive electric vehicles. IET Intelligent Transport Systems, 2018, 12, 712-720.	1.7	19
46	Adaptive coordinated leaderâ€”follower control of autonomous over-actuated electric vehicles. Transactions of the Institute of Measurement and Control, 2017, 39, 1798-1810.	1.1	10
47	Robustness Analysis and Controller Synthesis of Homogeneous Vehicular Platoons With Bounded Parameter Uncertainty. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1014-1025.	3.7	83
48	Adaptive fuzzy sliding mode control for coordinated longitudinal and lateral motions of multiple autonomous vehicles in a platoon. Science China Technological Sciences, 2017, 60, 576-586.	2.0	39
49	Stabilizing Periodic Control of Automated Vehicle Platoon With Minimized Fuel Consumption. IEEE Transactions on Transportation Electrification, 2017, 3, 259-271.	5.3	66
50	Integrated adaptive dynamic surface car-following control for nonholonomic autonomous electric vehicles. Science China Technological Sciences, 2017, 60, 1221-1230.	2.0	15
51	Predictive energy management strategy for fully electric vehicles based on hybrid model predictive control. , 2017, , .		5
52	Distributed Model Predictive Control for Heterogeneous Vehicle Platoons Under Unidirectional Topologies. IEEE Transactions on Control Systems Technology, 2017, 25, 899-910.	3.2	383
53	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.	4.7	45
54	Adaptive neural-network sliding mode cascade architecture of longitudinal tracking control for unmanned vehicles. Nonlinear Dynamics, 2017, 87, 2497-2510.	2.7	34

#	ARTICLE	IF	CITATIONS
55	Detection-level fusion for multi-object perception in dense traffic environment. , 2017, , .		3
56	Optimal Design of a Novel Hybrid Electric Powertrain for Tracked Vehicles. Energies, 2017, 10, 2141.	1.6	10
57	Evaluation of Forward Collision Avoidance system using driver's hazard perception. , 2016, , .		3
58	Dynamic coordinated control for over-actuated autonomous electric vehicles with nonholonomic constraints via nonsingular terminal sliding mode technique. Nonlinear Dynamics, 2016, 85, 583-597.	2.7	22
59	Predictive energy management strategy for electric vehicles based on estimation of preceding vehicle future movements. , 2016, , .		13
60	Multi-objective route search for electric vehicles using ant colony optimization. , 2016, , .		5
61	Tireâ€“road friction coefficient estimation based on the resonance frequency of in-wheel motor drive system. Vehicle System Dynamics, 2016, 54, 1-19.	2.2	37
62	Mechanism of vehicular periodic operation for optimal fuel economy in freeâ€“driving scenarios. IET Intelligent Transport Systems, 2015, 9, 306-313.	1.7	29
63	Coordinated Adaptive Cruise Control System With Lane-Change Assistance. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 2373-2383.	4.7	91
64	Coordinated Control of Autonomous Four Wheel Drive Electric Vehicles for Platooning and Trajectory Tracking Using a Hierarchical Architecture. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	0.9	36
65	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.	4.7	99
66	Longitudinal driving behaviour on different roadway categories: an instrumentedâ€“vehicle experiment, data collection and case study in China. IET Intelligent Transport Systems, 2015, 9, 555-563.	1.7	20
67	Driving risk assessment using near-crash database through data mining of tree-based model. Accident Analysis and Prevention, 2015, 84, 54-64.	3.0	100
68	Car2X technology-based &#x201C;Green Light on Demand&#x201D; system. , 2014, , .		0
69	Influence of information flow topology on closed-loop stability of vehicle platoon with rigid formation. , 2014, , .		83
70	RFID-Based Vehicle Positioning and Its Applications in Connected Vehicles. Sensors, 2014, 14, 4225-4238.	2.1	61
71	Driving risk assessment using cluster analysis based on naturalistic driving data. , 2014, , .		20
72	A novel curve lane detection based on Improved River Flow and RANSA. , 2014, , .		16

#	ARTICLE	IF	CITATIONS
73	A lane change warning system based on V2V communication. , 2014, , .		30
74	Driver steering behavior model based on lane-keeping characteristics analysis. , 2014, , .		2
75	Approaching index based collision avoidance for V2V cooperative systems. , 2014, , .		1
76	Maximum Tire Road Friction Estimation Based on Modified Dugoff Tire Model. , 2013, , .		11
77	Estimation of Maximum Tire-Road Friction Based on Dynamic Model Reconstruction. , 2013, , .		2
78	Research on Maximum Road Adhesion Coefficient Estimation for Distributed Drive Electric Vehicle. , 2013, , .		6
79	Economy-oriented vehicle adaptive cruise control with coordinating multiple objectives function. Vehicle System Dynamics, 2013, 51, 1-17.	2.2	100
80	Analysis of Chinese driver's lane change characteristic based on real vehicle tests in highway. , 2013, , .		11
81	Scale reduction based efficient model predictive control and its application in vehicle following control. , 2013, , .		0
82	A curving ACC system with coordination control of longitudinal car-following and lateral stability. Vehicle System Dynamics, 2012, 50, 1085-1102.	2.2	43
83	Minimum Fuel Control Strategy in Automated Car-Following Scenarios. IEEE Transactions on Vehicular Technology, 2012, 61, 998-1007.	3.9	125
84	Model Predictive Multi-Objective Vehicular Adaptive Cruise Control. IEEE Transactions on Control Systems Technology, 2011, 19, 556-566.	3.2	479
85	Multi-objective adaptive cruise control based on nonlinear model predictive algorithm. , 2011, , .		12
86	Dual-Steering Control Strategy of 4WD EV Based on MPC. , 2010, , .		2
87	Acoustic Modelling and Analysis of Vehicle Interior Noise Based on Numerical Calculation. , 2010, , .		0
88	Multi-objective driving assistance system for intersection support. , 2010, , .		6
89	Forward Simulation Platform of Driving Performance on Intelligent Hybrid Electric Vehicle. , 2010, , .		3
90	Pneumatic electronic braking assistance system using high-speed valves. , 2010, , .		3

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91	Multi-objective coordinated control for advanced adaptive cruise control system. , 2009, , .		14
92	Study on robustness and feasibility of MPC based vehicular Adaptive Cruise Control system. , 2009, , .		4
93	A quantification method of driver characteristics based on Driver Behavior Questionnaire. , 2009, , .		11
94	Disturbance decoupling robust control of vehicle full speed cruise dynamic system. Science in China Series D: Earth Sciences, 2009, 52, 3545-3564.	0.9	8
95	A driving simulation platform applied to develop Driver Assistance Systems. , 2009, , .		2
96	Double-Mode vehicular Electronic Throttle for driver assistance systems. , 2009, , .		2
97	Longitudinal acceleration tracking control of low speed heavy-duty vehicles. Tsinghua Science and Technology, 2008, 13, 636-643.	4.1	4
98	An Integrated System of Driving Environment Recognition based on THASV-II. Journal of Mechanical Systems for Transportation and Logistics, 2008, 1, 252-263.	0.2	1
99	Improvement Maneuverability and Stability of Independent 4WD EV by DYC Based on Control Target Dynamic Regulation. Journal of Mechanical Systems for Transportation and Logistics, 2008, 1, 305-318.	0.2	5
100	Adaptive throttle controller design based on a nonlinear vehicle model. , 2004, , .		1
101	Development of a mechatronics platform for automotive collision free maneuvers. , 0, , .		0
102	Longitudinal acceleration tracking control of vehicular stop-and-go cruise control system. , 0, , .		4
103	Road condition estimation for automotive anti-skid control system based on BP neural network. , 0, , .		3
104	A velocity control strategy for vehicular collision avoidance system. , 0, , .		5
105	Research on the precise calculation and control strategy of front wheel toe-in of vehicles. , 0, , .		3