Guo-dong Yin

List of Publications by Year
in descending order

129	1,897	279798	330143
papers	citations	23 h-index	37 g-index

132	132	132	1158
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Shared Control Design for Steering Assistance System Considering Driver Behaviors. IEEE Transactions on Intelligent Vehicles, 2023, 8, 900-911.	12.7	12
2	Collaborative Optimization of Energy Management Strategy and Adaptive Cruise Control Based on Deep Reinforcement Learning. IEEE Transactions on Transportation Electrification, 2023, 9, 34-44.	7.8	14
3	Event-Driven Energy-Efficient Driving Control in Urban Traffic for Connected Electric Vehicles. IEEE Transactions on Transportation Electrification, 2023, 9, 99-113.	7.8	4
4	An Event-Triggered Scheme for State Estimation of Preceding Vehicles Under Connected Vehicle Environment. IEEE Transactions on Intelligent Vehicles, 2023, 8, 583-593.	12.7	24
5	Estimation of Sideslip Angle and Tire Cornering Stiffness Using Fuzzy Adaptive Robust Cubature Kalman Filter. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1451-1462.	9.3	36
6	A Decentralized Cooperative Control Framework for Active Steering and Active Suspension: Multi-Agent Approach. IEEE Transactions on Transportation Electrification, 2022, 8, 1414-1429.	7.8	18
7	CT2â€MDS: Cooperative trustâ€aware tolerant misbehaviour detection system for connected and automated vehicles. IET Intelligent Transport Systems, 2022, 16, 218-231.	3.0	10
8	An Integrated Scheme for Coefficient Estimation of Tireâ€“Road Friction With Mass Parameter Mismatch Under Complex Driving Scenarios. IEEE Transactions on Industrial Electronics, 2022, 69, 13337-13347.	7.9	14
9	Path Planning on Large Curvature Roads Using Driver-Vehicle-Road System Based on the Kinematic Vehicle Model. IEEE Transactions on Vehicular Technology, 2022, 71, 311-325.	6.3	28
10	Tire Road Friction Coefficient Estimation: Review and Research Perspectives. Chinese Journal of Mechanical Engineering (English Edition), 2022, 35, .	3.7	48
11	Robust Vibration Control for Active Suspension System of In-Wheel-Motor-Driven Electric Vehicle Via Î¼-Synthesis Methodology. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2022, 144, .	1.6	38
12	A Cooperative Positioning Method of Connected and Automated Vehicles with Direction-of-Arrival and Relative Distance Fusion. Mathematical Problems in Engineering, 2022, 2022, 1-11.	1.1	0
13	A comparative study of energy-efficient driving strategy for connected internal combustion engine and electric vehicles at signalized intersections. Applied Energy, 2022, 310, 118524.	10.1	15
14	Stochastic Stable Control of Vehicular Platoon Time-Delay System Subject to Random Switching Topologies and Disturbances. IEEE Transactions on Vehicular Technology, 2022, 71, 5755-5769.	6.3	9
15	Predictive energy-efficient driving strategy design of connected electric vehicle among multiple signalized intersections. Transportation Research Part C: Emerging Technologies, 2022, 137, 103595.	7.6	23
16	Analysis of stiffness and damping performance of the composite leaf spring. Scientific Reports, 2022, 12, 6842.	3.3	5
17	Stability and Maneuverability Guaranteed Torque Distribution Strategy of DDEV in Handling Limit: A Novel LSTM-LMI Approach. IEEE/ASME Transactions on Mechatronics, 2022, 27, 5647-5658.	5.8	3
18	Optimal sizing and learning-based energy management strategy of NCR/LTO hybrid battery system for electric taxis. Energy, 2022, 257, 124653.	8.8	7

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19	Ensemble Learning Based Brainâ€“Computer Interface System for Ground Vehicle Control. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5392-5404.	9.3	19
20	Influence of braking on dynamic stability of car-trailer combinations. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2021, 235, 455-464.	1.9	2
21	Self-learning control for coordinated collision avoidance of automated vehicles. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2021, 235, 1149-1163.	1.9	18
22	An Adaptive Motion Planning Technique for On-Road Autonomous Driving. IEEE Access, 2021, 9, 2655-2664.	4.2	30
23	Geometry-Based Cooperative Localization for Connected Vehicle Subject to Temporary Loss of GNSS Signals. IEEE Sensors Journal, 2021, 21, 23527-23536.	4.7	9
24	Model Predictive Control of Car-trailer combinations based on Differential Braking. , 2021, , .		1
25	Robust Inter-Vehicle Distance Measurement Using Cooperative Vehicle Localization. Sensors, 2021, 21, 2048.	3.8	10
26	Research on Color Adaptation of Automobile Head-up Display Interface. , 2021, , .		0
27	A Novel Comprehensive Scheme for Vehicle State Estimation Using Dual Extended H-Infinity Kalman Filter. Electronics (Switzerland), 2021, 10, 1526.	3.1	8
28	Enhanced Eco-Approach Control of Connected Electric Vehicles at Signalized Intersection With Queue Discharge Prediction. IEEE Transactions on Vehicular Technology, 2021, 70, 5457-5469.	6.3	37
29	An Adaptive Fault-Tolerant EKF for Vehicle State Estimation With Partial Missing Measurements. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1318-1327.	5.8	32
30	A Distributed Integrated Control Architecture of AFS and DYC Based on MAS for Distributed Drive Electric Vehicles. IEEE Transactions on Vehicular Technology, 2021, 70, 5565-5577.	6.3	39
31	Adaptive Multi-modal Fusion Instance Segmentation for CAEVs in Complex Conditions: Dataset, Framework and Verifications. Chinese Journal of Mechanical Engineering (English Edition), 2021, 34, .	3.7	1
32	Energy-Optimal Braking Control Using a Double-Layer Scheme for Trajectory Planning and Tracking of Connected Electric Vehicles. Chinese Journal of Mechanical Engineering (English Edition), 2021, 34, .	3.7	11
33	Robust steering assistance control for tracking large-curvature path considering uncertainties of driverâ€™s steering behavior. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2021, 235, 2013-2028.	1.9	20
34	Decentralized On-Ramp Merging Control of Connected and Automated Vehicles in the Mixed Traffic Using Control Barrier Functions. , 2021, , .		6
35	Robust human-machine shared control with differential drive assist steering for different driver. , 2021, , .		0
36	Estimation of Vehicle State Based on Limited Memory Random Weighted Unscented Kalman Filter. , 2021, , .		2

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37	A robust Hâˆž-based steering assistance system for the wheeled tractor. Science Progress, 2021, 104, 003685042110537.	1.9	0
38	Distance-Based Cooperative Localization of Connected Vehicles Via Convex Relaxation Under Extreme Environments. , 2021, , .		1
39	Sharpening Mixture of Experts Fusion of Infrared and Visible Images for Night Perception Enhancement. , 2021, , .		0
40	Cooperative Merging Trajectory Optimization of Connected and Automated Vehicles in the Mixed Traffic: a Receding Horizon Control Approach. , 2021, , .		0
41	Path Tracking of Distributed Drive Electric Vehicle based on Stability Region. , 2021, , .		4
42	Safety-critical Eco-driving Strategy for Electric Vehicle at Signalized Intersection Using Control Barrier Function. , 2021, , .		0
43	Mode Shift Schedule and Control Strategy Design of Multimode Hybrid Powertrain. IEEE Transactions on Control Systems Technology, 2020, 28, 804-815.	5.2	23
44	Compensating Delays and Noises in Motion Control of Autonomous Electric Vehicles by Using Deep Learning and Unscented Kalman Predictor. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 4326-4338.	9.3	30
45	Integrated energy-oriented cruising control of electric vehicle on highway with varying slopes considering battery aging. Science China Technological Sciences, 2020, 63, 155-165.	4.0	21
46	Comparison of semi-active hybrid battery system configurations for electric taxis application. Applied Energy, 2020, 259, 114171.	10.1	15
47	Energy-Optimal Velocity Planning for Connected Electric Vehicles at Signalized Intersection with Queue Prediction. , 2020, , .		6
48	Estimation of Vehicle State Using Robust Cubature Kalman Filter. , 2020, , .		9
49	Acceleration Comfort Guaranteed ASR for Distributed Driving Electric Vehicle via Gain-scheduled Robust Pole-placement. , 2020, , .		1
50	Deep Dual-Modal Traffic Objects Instance Segmentation Method Using Camera and LIDAR Data for Autonomous Driving. Remote Sensing, 2020, 12, 3274.	4.0	18
51	Using Deep Learning in Infrared Images to Enable Human Gesture Recognition for Autonomous Vehicles. IEEE Access, 2020, 8, 88227-88240.	4.2	28
52	Two-layer mass-adaptive hill start assist control method for commercial vehicles. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2020, 234, 438-448.	1.9	4
53	Robust Cooperative Control of Multiple Autonomous Vehicles for Platoon Formation Considering Parameter Uncertainties. Automotive Innovation, 2020, 3, 88-100.	5.1	9
54	A survey of powertrain configuration studies on hybrid electric vehicles. Applied Energy, 2020, 262, 114553.	10.1	135

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55	Online estimation ofinertial parameter for lightweight electric vehicle using dual unscented Kalman filter approach. IET Intelligent Transport Systems, 2020, 14, 412-422.	3.0	45
56	A Novel Approach for Tire-Road Friction Coefficient Estimation Using Adaptive Cubature Kalman Filter. , 2020, , .		3
57	A Goal-Biased RRT Path Planning Approach for Autonomous Ground Vehicle. , 2020, , .		11
58	The Mechanism Research of Body Sway of Car-Trailer Combinations Considering Steering System Characteristics. Lecture Notes in Mechanical Engineering, 2020, , 1435-1446.	0.4	2
59	Learning-Based Vibration Control of Vehicle Active Suspension. , 2020, , .		6
60	Velocity Trajectory Planning of the Autonomous-Rail Rapid Tram Considering Terrain and Traffic lights. , 2020, , .		3
61	Research on product iterative requirement analysis method based on internet review data and XGBoost. , 2020, , .		0
62	Advanced Estimation Techniques for Vehicle System Dynamic State: A Survey. Sensors, 2019, 19, 4289.	3.8	72
63	Rule-filter-integrated Control of LFP/LTO Hybrid Energy Storage System for Vehicular Application. , 2019, , .		2
64	Low-observable targets detection for autonomous vehicles based on dual-modal sensor fusion with deep learning approach. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 2270-2283.	1.9	10
65	Distributed Formation Control of Homogeneous Vehicle Platoon Considering Vehicle Dynamics. International Journal of Automotive Technology, 2019, 20, 1103-1112.	1.4	13
66	Energy-oriented cruising strategy design of vehicle platoon considering communication delay and disturbance. Transportation Research Part C: Emerging Technologies, 2019, 107, 34-53.	7.6	48
67	L₂ String Stability of Heterogeneous Platoon under Disturbances and Information Delays. , 2019, , .		3
68	Design of a Cooperative V2V Trajectory-Planning Algorithm for Vehicles Driven on a Winding Road With Consideration of Human Driversâ€™ Characteristics. IEEE Access, 2019, 7, 131135-131147.	4.2	4
69	Small Objects Detection with Multi-layer Laser Radar Based on Projection Dimensionality Reduction. , 2019, , .		1
70	An algorithm of cooperative V2V trajectory planning on a winding road considering the driversâ€™ characteristics. , 2019, , .		1
71	Path Tracking of Orchard Tractor Based on Linear Time-varying Model Predictive Control. , 2019, , .		1
72	Distributed Control Design based on Multi-Agent for Distributed Driving Electric Vehicle. , 2019, , .		2

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73	Real-Time Estimation of Inertial Parameter for Lightweight Electric Vehicle Using Dual Kalman Filter. , 2019, , .		1
74	Traffic Lights Detection and Recognition Algorithm Based on Multi-feature Fusion. , 2019, , .		2
75	Improving stability and comfort of an in-wheel motor drive electric vehicle via active suspensions. International Journal of Heavy Vehicle Systems, 2019, 26, 494.	0.2	6
76	Stability Investigation of Car-trailer Combinations considering Steering System Stiffness. , 2019, , .		1
77	Cooperative Driving for Connected and Automated Vehicles at Non-signalized Intersection based on Model Predictive Control. , 2019, , .		8
78	Shared Control between Driver Steering and Differential Drive Assistance System Considering Driverâ€™s Characteristics. , 2019, , .		3
79	Modeling and Robust Control of Heterogeneous Vehicle Platoons on Curved Roads Subject to Disturbances and Delays. IEEE Transactions on Vehicular Technology, 2019, 68, 11551-11564.	6.3	60
80	Lateral Stability Improvement of In-Wheel-Motor-Driven Electric Vehicles Using Gain-scheduled Robust Control. , 2019, , .		1
81	Analysis of Lateral Stability Region for Lightweight Electric Vehicle Using Phase Plane Approach. , 2019, , .		4
82	Nonlinear Dynamics Analysis of Car-trailer Combinations Body Sway considering Steering System Damping. , 2019, , .		0
83	Dual Low Identification Target Recognition in Complex Environment based on Neural Network. , 2019, , .		1
84	Energy-Efficient Feedback Control Strategy of Vehicle Platoon on Highway with Varying Slopes. , 2019, , .		0
85	Cooperative Merging for Multiple Connected and Automated Vehicles at Highway On-Ramps via Virtual Platoon Formation. , 2019, , .		9
86	Coordinated Control for Active 4WS Vehicle Based on Linear Quadratic Differential Game. , 2019, , .		4
87	Multiâ€objective optimal cooperative driving for connected and automated vehicles at nonâ€signalised intersection. IET Intelligent Transport Systems, 2019, 13, 79-89.	3.0	15
88	Active collision algorithm for autonomous electric vehicles at intersections. IET Intelligent Transport Systems, 2019, 13, 90-97.	3.0	4
89	Simultaneous Longitudinal and Lateral Control of Vehicle Platoon Subject to Stochastic Communication Delays. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	1.6	16
90	An Optimization Algorithm of Energy Management for HEB Based on Pontryaginâ€™s Minimum Principle. Wireless Personal Communications, 2018, 103, 1011-1023.	2.7	1

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91	Improving Vehicle Handling Stability Based on Combined AFS and DYC System via Robust Takagi-Sugeno Fuzzy Control. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2696-2707.	8.0	127
92	Output-feedback robust control for vehicle path tracking considering different human driversâ€™ characteristics. Mechatronics, 2018, 50, 402-412.	3.3	43
93	Robust gain-scheduled output feedback yaw stability control for in-wheel-motor-driven electric vehicles with external yaw-moment. Journal of the Franklin Institute, 2018, 355, 9271-9297.	3.4	49
94	Robust Hâˆž Output-feedback Vehicle Yaw Control Using an Active Front Wheel Steering. , 2018, , .		1
95	Fuzzy steering assistance control for path following of the steer-by-wire vehicle considering characteristics of human driver. , 2018, , .		13
96	Stable Longitudinal Control of Heterogeneous Vehicular Platoon With Disturbances and Information Delays. IEEE Access, 2018, 6, 69794-69806.	4.2	33
97	A Comparison of Two Distributed V2V Trajectory-planning Algorithms with Consideration of Drivers' Characteristics. , 2018, , .		3
98	Multi-objective Cooperative Scheduling of CAVs at Non-Signalized Intersection. , 2018, , .		13
99	Recognition Method for Multi-Class Motor Imagery EEG Based on Channel Frequency Selection. , 2018, , .		2
100	Cross-line-Turn Path Tracking of Intelligent Agricultural Vehicle Based on MPC in Standard Orchard. , 2018, , .		3
101	Strategy for heterogeneous vehicular platoons merging in automated highway system. , 2018, , .		12
102	Dynamic Output-feedback robust control for vehicle path tracking considering different human drivers' characteristics. , 2017, , .		0
103	Motion control of a four-wheel-independent-drive electric vehicle by motor imagery EEG based BCI system. , 2017, , .		10
104	Robust fuzzy control for vehicle lateral dynamic stability via Takagi-Sugeno fuzzy approach. , 2017, , .		8
105	Mode shift map design and integrated energy management control of a multi-mode hybrid electric vehicle. Applied Energy, 2017, 204, 476-488.	10.1	56
106	The Optimized Flocking-Based Vehicle Fleet Control Considering Vehicular Dynamic Process. , 2016, , .		2
107	Stabilizing electric vehicle lateral motion with considerations of state delay of active front steering system through robust control. , 2016, , .		1
108	Joint estimation of center of gravity position and mass for the front and rear independently driven electric vehicle with payload in the start stage. , 2016, , .		3

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109	Application of hilbert transform in vehicle dynamics analysis. , 2016, , .		1
110	The Path Tracking of Four-Wheel Steering Autonomous Vehicles via Sliding Mode Control. , 2016, , .		10
111	Cubature kalman filter-based state estimation for distributed drive electric vehicles. , 2016, , .		6
112	Design of robust controllers for active suspension using the robust Hâˆž optimal control. , 2016, , .		0
113	Flocking cooperative driving control of four-wheel independently driving electric autonomous vehicles considering vehicular dynamic processes. , 2016, , .		2
114	Improving vehicle handling stability performance via integrated control of active front steering and suspension systems. , 2016, , .		8
115	Effect of variation in rotor resistance on the dynamic performance of induction motor. , 2016, , .		6
116	Non-fragile robust Hâˆž controller design for 4WS-4WD vehicle. , 2016, , .		0
117	Differential drive assisted steering control for electric vehicle with electric motored wheels. , 2016, , .		0
118	Robust adaptive sliding mode control for nonlinear four-wheel steering autonomous Vehicles path tracking systems. , 2016, , .		2
119	Active steering of autonomous vehicle using model predictive control with Legendre function. , 2016, , .		3
120	The acceleration slip regulation control for two-wheel independent driving electric vehicle based on dynamic torque distribution. , 2016, , .		5
121	Gain-scheduled robust control for lateral stability of four-wheel-independent-drive electric vehicles via linear parameter-varying technique. Mechatronics, 2015, 30, 286-296.	3.3	82
122	Robust guaranteed cost state-delayed vehicle lateral stability control with applications to in-wheel-motor-driven electric vehicles. , 2015, , .		6
123	Estimation of lateral tireâ€“road forces and sideslip angle for electric vehicles using interacting multiple model filter approach. Journal of the Franklin Institute, 2015, 352, 686-707.	3.4	89
124	Lateral stability region conservativeness estimation and torque distribution for FWIA electric vehicle steering. Science China Technological Sciences, 2015, 58, 669-676.	4.0	11
125	Modeling and parameters sensitivity analysis of lightweight vehicles considering payload variations. , 2013, , .		1
126	Motion Control of Four-Wheel Independently Actuated Electric Ground Vehicles considering Tire Force Saturations. Mathematical Problems in Engineering, 2013, 2013, 1-8.	1.1	15

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127	Cooperative Control of Regenerative Braking and Antilock Braking for a Hybrid Electric Vehicle. Mathematical Problems in Engineering, 2013, 2013, 1-9.	1.1	23
128	A Study on Î¼-Synthesis Control for Four-Wheel Steering System to Enhance Vehicle Lateral Stability. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2011, 133, .	1.6	27
129	A study on body sway of car-trailer combinations considering dry friction in steering subsystem. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 0, , 095440702110520.	1.9	1