

Guo-dong Yin

List of Publications by Year in descending order

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129
papers

1,897
citations

279798

23
h-index

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132
all docs

132
docs citations

132
times ranked

1158
citing authors

#	ARTICLE	IF	CITATIONS
1	A survey of powertrain configuration studies on hybrid electric vehicles. <i>Applied Energy</i> , 2020, 262, 114553.	10.1	135
2	Improving Vehicle Handling Stability Based on Combined AFS and DYC System via Robust Takagi-Sugeno Fuzzy Control. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018, 19, 2696-2707.	8.0	127
3	Estimation of lateral tire-road forces and sideslip angle for electric vehicles using interacting multiple model filter approach. <i>Journal of the Franklin Institute</i> , 2015, 352, 686-707.	3.4	89
4	Gain-scheduled robust control for lateral stability of four-wheel-independent-drive electric vehicles via linear parameter-varying technique. <i>Mechatronics</i> , 2015, 30, 286-296.	3.3	82
5	Advanced Estimation Techniques for Vehicle System Dynamic State: A Survey. <i>Sensors</i> , 2019, 19, 4289.	3.8	72
6	Modeling and Robust Control of Heterogeneous Vehicle Platoons on Curved Roads Subject to Disturbances and Delays. <i>IEEE Transactions on Vehicular Technology</i> , 2019, 68, 11551-11564.	6.3	60
7	Mode shift map design and integrated energy management control of a multi-mode hybrid electric vehicle. <i>Applied Energy</i> , 2017, 204, 476-488.	10.1	56
8	Robust gain-scheduled output feedback yaw stability control for in-wheel-motor-driven electric vehicles with external yaw-moment. <i>Journal of the Franklin Institute</i> , 2018, 355, 9271-9297.	3.4	49
9	Energy-oriented cruising strategy design of vehicle platoon considering communication delay and disturbance. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 107, 34-53.	7.6	48
10	Tire Road Friction Coefficient Estimation: Review and Research Perspectives. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2022, 35, .	3.7	48
11	Online estimation of inertial parameter for lightweight electric vehicle using dual unscented Kalman filter approach. <i>IET Intelligent Transport Systems</i> , 2020, 14, 412-422.	3.0	45
12	Output-feedback robust control for vehicle path tracking considering different human drivers' characteristics. <i>Mechatronics</i> , 2018, 50, 402-412.	3.3	43
13	A Distributed Integrated Control Architecture of AFS and DYC Based on MAS for Distributed Drive Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2021, 70, 5565-5577.	6.3	39
14	Robust Vibration Control for Active Suspension System of In-Wheel-Motor-Driven Electric Vehicle Via H_2 -Synthesis Methodology. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2022, 144, .	1.6	38
15	Enhanced Eco-Approach Control of Connected Electric Vehicles at Signalized Intersection With Queue Discharge Prediction. <i>IEEE Transactions on Vehicular Technology</i> , 2021, 70, 5457-5469.	6.3	37
16	Estimation of Sideslip Angle and Tire Cornering Stiffness Using Fuzzy Adaptive Robust Cubature Kalman Filter. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022, 52, 1451-1462.	9.3	36
17	Stable Longitudinal Control of Heterogeneous Vehicular Platoon With Disturbances and Information Delays. <i>IEEE Access</i> , 2018, 6, 69794-69806.	4.2	33
18	An Adaptive Fault-Tolerant EKF for Vehicle State Estimation With Partial Missing Measurements. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021, 26, 1318-1327.	5.8	32

#	ARTICLE	IF	CITATIONS
19	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
20	An Adaptive Motion Planning Technique for On-Road Autonomous Driving. IEEE Access, 2021, 9, 2655-2664.	4.2	30
21	Using Deep Learning in Infrared Images to Enable Human Gesture Recognition for Autonomous Vehicles. IEEE Access, 2020, 8, 88227-88240.	4.2	28
22	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
23	A Study on $\hat{1}/4$ -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
24	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
25	Cooperative Control of Regenerative Braking and Antilock Braking for a Hybrid Electric Vehicle. Mathematical Problems in Engineering, 2013, 2013, 1-9.	1.1	23
26	Mode Shift Schedule and Control Strategy Design of Multimode Hybrid Powertrain. IEEE Transactions on Control Systems Technology, 2020, 28, 804-815.	5.2	23
27	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
28	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
29	Robust steering assistance control for tracking large-curvature path considering uncertainties of driver's steering behavior. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2021, 235, 2013-2028.	1.9	20
30	Ensemble Learning Based Brain-Computer Interface System for Ground Vehicle Control. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5392-5404.	9.3	19
31	Deep Dual-Modal Traffic Objects Instance Segmentation Method Using Camera and LIDAR Data for Autonomous Driving. Remote Sensing, 2020, 12, 3274.	4.0	18
32	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
33	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
34	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
35	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
36	Multi-objective optimal cooperative driving for connected and automated vehicles at non-signalised intersection. IET Intelligent Transport Systems, 2019, 13, 79-89.	3.0	15

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37	Comparison of semi-active hybrid battery system configurations for electric taxis application. Applied Energy, 2020, 259, 114171.	10.1	15
38	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
39	An Integrated Scheme for Coefficient Estimation of Tire-Road Friction With Mass Parameter Mismatch Under Complex Driving Scenarios. IEEE Transactions on Industrial Electronics, 2022, 69, 13337-13347.	7.9	14
40	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
41	Fuzzy steering assistance control for path following of the steer-by-wire vehicle considering characteristics of human driver. , 2018, , .		13
42	Multi-objective Cooperative Scheduling of CAVs at Non-Signalized Intersection. , 2018, , .		13
43	Distributed Formation Control of Homogeneous Vehicle Platoon Considering Vehicle Dynamics. International Journal of Automotive Technology, 2019, 20, 1103-1112.	1.4	13
44	Strategy for heterogeneous vehicular platoons merging in automated highway system. , 2018, , .		12
45	A Shared Control Design for Steering Assistance System Considering Driver Behaviors. IEEE Transactions on Intelligent Vehicles, 2023, 8, 900-911.	12.7	12
46	Lateral stability region conservativeness estimation and torque distribution for FWIA electric vehicle steering. Science China Technological Sciences, 2015, 58, 669-676.	4.0	11
47	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
48	A Goal-Biased RRT Path Planning Approach for Autonomous Ground Vehicle. , 2020, , .		11
49	The Path Tracking of Four-Wheel Steering Autonomous Vehicles via Sliding Mode Control. , 2016, , .		10
50	Motion control of a four-wheel-independent-drive electric vehicle by motor imagery EEG based BCI system. , 2017, , .		10
51	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
52	Robust Inter-Vehicle Distance Measurement Using Cooperative Vehicle Localization. Sensors, 2021, 21, 2048.	3.8	10
53	CT-MDS: Cooperative trust-aware tolerant misbehaviour detection system for connected and automated vehicles. IET Intelligent Transport Systems, 2022, 16, 218-231.	3.0	10
54	Cooperative Merging for Multiple Connected and Automated Vehicles at Highway On-Ramps via Virtual Platoon Formation. , 2019, , .		9

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55	Estimation of Vehicle State Using Robust Cubature Kalman Filter. , 2020, , .		9
56	Robust Cooperative Control of Multiple Autonomous Vehicles for Platoon Formation Considering Parameter Uncertainties. Automotive Innovation, 2020, 3, 88-100.	5.1	9
57	Geometry-Based Cooperative Localization for Connected Vehicle Subject to Temporary Loss of GNSS Signals. IEEE Sensors Journal, 2021, 21, 23527-23536.	4.7	9
58	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
59	Improving vehicle handling stability performance via integrated control of active front steering and suspension systems. , 2016, , .		8
60	Robust fuzzy control for vehicle lateral dynamic stability via Takagi-Sugeno fuzzy approach. , 2017, , .		8
61	Cooperative Driving for Connected and Automated Vehicles at Non-signalized Intersection based on Model Predictive Control. , 2019, , .		8
62	A Novel Comprehensive Scheme for Vehicle State Estimation Using Dual Extended H-Infinity Kalman Filter. Electronics (Switzerland), 2021, 10, 1526.	3.1	8
63	Optimal sizing and learning-based energy management strategy of NCR/LTO hybrid battery system for electric taxis. Energy, 2022, 257, 124653.	8.8	7
64	Robust guaranteed cost state-delayed vehicle lateral stability control with applications to in-wheel-motor-driven electric vehicles. , 2015, , .		6
65	Cubature kalman filter-based state estimation for distributed drive electric vehicles. , 2016, , .		6
66	Effect of variation in rotor resistance on the dynamic performance of induction motor. , 2016, , .		6
67	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
68	Energy-Optimal Velocity Planning for Connected Electric Vehicles at Signalized Intersection with Queue Prediction. , 2020, , .		6
69	Decentralized On-Ramp Merging Control of Connected and Automated Vehicles in the Mixed Traffic Using Control Barrier Functions. , 2021, , .		6
70	Learning-Based Vibration Control of Vehicle Active Suspension. , 2020, , .		6
71	The acceleration slip regulation control for two-wheel independent driving electric vehicle based on dynamic torque distribution. , 2016, , .		5
72	Analysis of stiffness and damping performance of the composite leaf spring. Scientific Reports, 2022, 12, 6842.	3.3	5

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73	Design of a Cooperative V2V Trajectory-Planning Algorithm for Vehicles Driven on a Winding Road With Consideration of Human Drivers' Characteristics. IEEE Access, 2019, 7, 131135-131147.	4.2	4
74	Analysis of Lateral Stability Region for Lightweight Electric Vehicle Using Phase Plane Approach. , 2019, , .		4
75	Coordinated Control for Active 4WS Vehicle Based on Linear Quadratic Differential Game. , 2019, , .		4
76	Active collision algorithm for autonomous electric vehicles at intersections. IET Intelligent Transport Systems, 2019, 13, 90-97.	3.0	4
77	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
78	Path Tracking of Distributed Drive Electric Vehicle based on Stability Region. , 2021, , .		4
79	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
80	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
81	Active steering of autonomous vehicle using model predictive control with Legendre function. , 2016, , .		3
82	A Comparison of Two Distributed V2V Trajectory-planning Algorithms with Consideration of Drivers' Characteristics. , 2018, , .		3
83	Cross-line-Turn Path Tracking of Intelligent Agricultural Vehicle Based on MPC in Standard Orchard. , 2018, , .		3
84	L_2 String Stability of Heterogeneous Platoon under Disturbances and Information Delays. , 2019, , .		3
85	Shared Control between Driver Steering and Differential Drive Assistance System Considering Driver's Characteristics. , 2019, , .		3
86	A Novel Approach for Tire-Road Friction Coefficient Estimation Using Adaptive Cubature Kalman Filter. , 2020, , .		3
87	Velocity Trajectory Planning of the Autonomous-Rail Rapid Tram Considering Terrain and Traffic lights. , 2020, , .		3
88	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
89	The Optimized Flocking-Based Vehicle Fleet Control Considering Vehicular Dynamic Process. , 2016, , .		2
90	Flocking cooperative driving control of four-wheel independently driving electric autonomous vehicles considering vehicular dynamic processes. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
91	Robust adaptive sliding mode control for nonlinear four-wheel steering autonomous Vehicles path tracking systems. , 2016, , .		2
92	Recognition Method for Multi-Class Motor Imagery EEG Based on Channel Frequency Selection. , 2018, , .		2
93	Rule-filter-integrated Control of LFP/LTO Hybrid Energy Storage System for Vehicular Application. , 2019, , .		2
94	Distributed Control Design based on Multi-Agent for Distributed Driving Electric Vehicle. , 2019, , .		2
95	Traffic Lights Detection and Recognition Algorithm Based on Multi-feature Fusion. , 2019, , .		2
96	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
97	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
98	Estimation of Vehicle State Based on Limited Memory Random Weighted Unscented Kalman Filter. , 2021, , .		2
99	Modeling and parameters sensitivity analysis of lightweight vehicles considering payload variations. , 2013, , .		1
100	Stabilizing electric vehicle lateral motion with considerations of state delay of active front steering system through robust control. , 2016, , .		1
101	Application of hilbert transform in vehicle dynamics analysis. , 2016, , .		1
102	An Optimization Algorithm of Energy Management for HEB Based on Pontryagin's Minimum Principle. Wireless Personal Communications, 2018, 103, 1011-1023.	2.7	1
103	Robust H _∞ Output-feedback Vehicle Yaw Control Using an Active Front Wheel Steering. , 2018, , .		1
104	Small Objects Detection with Multi-layer Laser Radar Based on Projection Dimensionality Reduction. , 2019, , .		1
105	An algorithm of cooperative V2V trajectory planning on a winding road considering the drivers' characteristics. , 2019, , .		1
106	Path Tracking of Orchard Tractor Based on Linear Time-varying Model Predictive Control. , 2019, , .		1
107	Real-Time Estimation of Inertial Parameter for Lightweight Electric Vehicle Using Dual Kalman Filter. , 2019, , .		1
108	Stability Investigation of Car-trailer Combinations considering Steering System Stiffness. , 2019, , .		1

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109	Lateral Stability Improvement of In-Wheel-Motor-Driven Electric Vehicles Using Gain-scheduled Robust Control. , 2019, , .		1
110	Dual Low Identification Target Recognition in Complex Environment based on Neural Network. , 2019, , .		1
111	Acceleration Comfort Guaranteed ASR for Distributed Driving Electric Vehicle via Gain-scheduled Robust Pole-placement. , 2020, , .		1
112	Model Predictive Control of Car-trailer combinations based on Differential Braking. , 2021, , .		1
113	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
114	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
115	Distance-Based Cooperative Localization of Connected Vehicles Via Convex Relaxation Under Extreme Environments. , 2021, , .		1
116	Design of robust controllers for active suspension using the robust H ∞ optimal control. , 2016, , .		0
117	Non-fragile robust H ∞ controller design for 4WS-4WD vehicle. , 2016, , .		0
118	Differential drive assisted steering control for electric vehicle with electric motored wheels. , 2016, , .		0
119	Dynamic Output-feedback robust control for vehicle path tracking considering different human drivers' characteristics. , 2017, , .		0
120	Nonlinear Dynamics Analysis of Car-trailer Combinations Body Sway considering Steering System Damping. , 2019, , .		0
121	Energy-Efficient Feedback Control Strategy of Vehicle Platoon on Highway with Varying Slopes. , 2019, , .		0
122	Research on Color Adaptation of Automobile Head-up Display Interface. , 2021, , .		0
123	Robust human-machine shared control with differential drive assist steering for different driver. , 2021, , .		0
124	Research on product iterative requirement analysis method based on internet review data and XGBoost. , 2020, , .		0
125	A robust H ∞ -based steering assistance system for the wheeled tractor. Science Progress, 2021, 104, 003685042110537.	1.9	0
126	Sharpening Mixture of Experts Fusion of Infrared and Visible Images for Night Perception Enhancement. , 2021, , .		0

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127	Cooperative Merging Trajectory Optimization of Connected and Automated Vehicles in the Mixed Traffic: a Receding Horizon Control Approach. , 2021, , .		0
128	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
129	Safety-critical Eco-driving Strategy for Electric Vehicle at Signalized Intersection Using Control Barrier Function. , 2021, , .		0