Chongfeng Wei

List of Publications by Year
in descending order

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43 papers	1,666 citations	394286 19 h-index	289141 40 g-index
43 all docs	43 docs citations	43 times ranked	1624 citing authors

#	Article	IF	Citations
1	A comprehensive review on vibration energy harvesting: Modelling and realization. Renewable and Sustainable Energy Reviews, 2017, 74, 1-18.	8.2	660
2	MME-EKF-Based Path-Tracking Control of Autonomous Vehicles Considering Input Saturation. IEEE Transactions on Vehicular Technology, 2019, 68, 5246-5259.	3.9	122
3	Lane keeping of autonomous vehicles based on differential steering with adaptive multivariable super-twisting control. Mechanical Systems and Signal Processing, 2019, 125, 330-346.	4.4	72
4	A novel approach to energy harvesting from vehicle suspension system: Half-vehicle model. Energy, 2017, 134, 279-288.	4.5	67
5	Differential Steering Based Yaw Stabilization Using ISMC for Independently Actuated Electric Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 627-638.	4.7	67
6	Transient dynamic behaviour of finite element tire traversing obstacles with different heights. Journal of Terramechanics, 2014, 56, 1-16.	1.4	53
7	Risk-based autonomous vehicle motion control with considering human driverâ€™s behaviour. Transportation Research Part C: Emerging Technologies, 2019, 107, 1-14.	3.9	47
8	A novel nonlinear road profile classification approach for controllable suspension system: Simulation and experimental validation. Mechanical Systems and Signal Processing, 2019, 125, 79-98.	4.4	45
9	RISE-Based Integrated Motion Control of Autonomous Ground Vehicles With Asymptotic Prescribed Performance. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5336-5348.	5.9	44
10	Vibrational energy harvesting by exploring structural benefits and nonlinear characteristics. Communications in Nonlinear Science and Numerical Simulation, 2017, 48, 288-306.	1.7	41
11	The effects of tyre material and structure properties on relaxation length using finite element method. Materials and Design, 2016, 102, 14-20.	3.3	36
12	Distributed Model Predictive Control Strategy for Constrained High-Speed Virtually Coupled Train Set. IEEE Transactions on Vehicular Technology, 2022, 71, 171-183.	3.9	36
13	Path-tracking and lateral stabilisation for autonomous vehicles by using the steering angle envelope. Vehicle System Dynamics, 2021, 59, 1672-1696.	2.2	34
14	An Adaptive Motion Planning Technique for On-Road Autonomous Driving. IEEE Access, 2021, 9, 2655-2664.	2.6	30
15	A tunable nonlinear vibrational energy harvesting system with scissor-like structure. Mechanical Systems and Signal Processing, 2019, 125, 202-214.	4.4	29
16	Hostâ€“Target Vehicle Model-Based Lateral State Estimation for Preceding Target Vehicles Considering Measurement Delay. IEEE Transactions on Industrial Informatics, 2018, 14, 4190-4199.	7.2	28
17	Optimal robust control of vehicle lateral stability using damped least-square backpropagation training of neural networks. Neurocomputing, 2020, 384, 256-267.	3.5	27
18	A hierarchical framework of emergency collision avoidance amid surrounding vehicles in highway driving. Control Engineering Practice, 2021, 109, 104751.	3.2	22

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19	EKF-Neural Network Observer Based Type-2 Fuzzy Control of Autonomous Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4788-4800.	4.7	21
20	A novel optimal power management strategy for plug-in hybrid electric vehicle with improved adaptability to traffic conditions. Journal of Power Sources, 2021, 489, 229512.	4.0	21
21	Simulation of tyre rolling resistance generated on uneven road. International Journal of Vehicle Design, 2016, 70, 113.	0.1	20
22	Railway Air Brake Model and Parallel Computing Scheme. Journal of Computational and Nonlinear Dynamics, 2017, 12, .	0.7	19
23	A finite-element-based approach to characterising FTire model for extended range of operation conditions. Vehicle System Dynamics, 2017, 55, 295-312.	2.2	19
24	Interaction-Aware Decision-Making for Automated Vehicles Using Social Value Orientation. IEEE Transactions on Intelligent Vehicles, 2023, 8, 1339-1349.	9.4	14
25	Human-Like Decision Making and Motion Control for Smooth and Natural Car Following. IEEE Transactions on Intelligent Vehicles, 2023, 8, 263-274.	9.4	13
26	Trajectory Prediction of Preceding Target Vehicles Based on Lane Crossing and Final Points Generation Model Considering Driving Styles. IEEE Transactions on Vehicular Technology, 2021, 70, 8720-8730.	3.9	12
27	Research into the problem of wheel tread spalling caused by wheelset longitudinal vibration. Vehicle System Dynamics, 2015, 53, 546-567.	2.2	10
28	APPRAISAL OF TAKAGIâ€“SUGENO TYPE NEURO-FUZZY NETWORK SYSTEM WITH A MODIFIED DIFFERENTIAL EVOLUTION METHOD TO PREDICT NONLINEAR WHEEL DYNAMICS CAUSED BY ROAD IRREGULARITIES. Transport, 2016, 31, 211-220.	0.6	8
29	Measuring Driversâ€™ Physiological Response to Different Vehicle Controllers in Highly Automated Driving (HAD): Opportunities for Establishing Real-Time Values of Driver Discomfort. Information (Switzerland), 2020, 11, 390.	1.7	8
30	Deriving metrics of driving comfort for autonomous vehicles: A dynamic latent variable model of speed choice. Analytic Methods in Accident Research, 2020, 28, 100133.	4.7	7
31	Driversâ€™ Evaluation of Different Automated Driving Styles: Is It Both Comfortable and Natural?. Human Factors, 2024, 66, 787-806.	2.1	6
32	Driver-centred Autonomous Vehicle Motion Control within A Blended Corridor. IFAC-PapersOnLine, 2019, 52, 212-217.	0.5	5
33	Commercial Vehicle-Based Robust Control of Seated Whole-Body Vibration Using Adaptive Indirect Type-2 Fuzzy Neural Network. IEEE Access, 2020, 8, 124949-124960.	2.6	4
34	The induced shock and impact force as affected by the obstacle geometric factors during tire-obstacle collision dynamics. Measurement: Journal of the International Measurement Confederation, 2016, 84, 47-55.	2.5	3
35	Prediction of influence of operating conditions and tyre design parameters on tyre cornering characteristics. International Journal of Vehicle Performance, 2017, 3, 127.	0.2	3
36	Short-Term Lateral Behavior Reasoning for Target Vehicles Considering Driver Preview Characteristic. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 11801-11810.	4.7	3

#	Article	IF	Citations
37	Variable selection based near infrared spectroscopy quantitative and qualitative analysis on wheat wet gluten. , 2017, , .		3
38	Achieving Driving Comfort of AVs by Combined Longitudinal and Lateral Motion Control. Lecture Notes in Mechanical Engineering, 2020, , 1107-1113.	0.3	2
39	Human-centred risk-potential-based trajectory planning of autonomous vehicles. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2023, 237, 393-409.	1.1	2
40	Large DOF Coupler/Draft Gear System Models for Rail Vehicles. Applied Mechanics and Materials, 2012, 197, 381-385.	0.2	1
41	Traffic Status Prediction of Arterial Roads Based on the Deep Recurrent Q-Learning. Journal of Advanced Transportation, 2020, 2020, 1-17.	0.9	1
42	Creating Kinematics-dependent Pedestrian Crossing Willingness Model When Interacting with Approaching Vehicle. , 2020, , .		1
43	Appraisal of numerical based finite element method to synthesise the wheel-obstacle collision dynamics using a single-wheel tester. International Journal of Heavy Vehicle Systems, 2019, 26, 578.	0.1	0