

Hui Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

120
papers

4,991
citations

39
h-index

68
g-index

140
ext. papers

5,962
ext. citations

4.9
avg, IF

6.6
L-index

#	Paper	IF	Citations
120	. <i>Canadian Journal of Electrical and Computer Engineering</i> , 2022 , 45, 50-62	1.4	0
119	Dual-Path Mixed Domain Residual Threshold Networks for Bearing Fault Diagnosis. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	7
118	Road-Curvature-Range-Dependent Path Following Controller Design for Autonomous Ground Vehicles Subject to Stochastic Delays. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022 , 1-11	6.1	0
117	A Vision-Based System Design and Implementation for Accident Detection and Analysis via Traffic Surveillance Video Conception et mise en oeuvre d'un système basé sur la vision pour la détection et l'analyse des accidents via les vidéos de surveillance du trafic. <i>Canadian Journal of Electrical and Computer Engineering</i> , 2022 , 1-11	1.4	
116	An improved learning-based LSTM approach for lane change intention prediction subject to imbalanced data. <i>Transportation Research Part C: Emerging Technologies</i> , 2021 , 133, 103414	8.4	3
115	An Improved RRT* Algorithm Combining Motion Constraint and Artificial Potential Field for Robot-Assisted Flexible Needle Insertion in 3D Environment 2021 ,		1
114	Drag Coefficient Modeling of Heterogeneous Connected Platooning Vehicles via BP Neural Network and PSO Algorithm. <i>Neurocomputing</i> , 2021 , 484, 117-117	5.4	4
113	Unknown Input Observer Based Approach for Distributed Tube-Based Model Predictive Control of Heterogeneous Vehicle Platoons. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 2930-2944	6.8	20
112	Fault Diagnosis of an Autonomous Vehicle With an Improved SVM Algorithm Subject to Unbalanced Datasets. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 6248-6256	8.9	61
111	. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 2460-2469	8.9	36
110	Lateral comparison of the coupling parameters on the novel hexagonal shaped cross flow thermoelectric generator. <i>Energy</i> , 2021 , 215, 119163	7.9	3
109	. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 10029-10039	8.9	3
108	. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 5524-5536	6.8	9
107	Improved Vehicle LiDAR Calibration With Trajectory-Based Hand-Eye Method. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-10	6.1	1
106	Distributed Stochastic Model Predictive Control for Heterogeneous Vehicle Platoons Subject to Modeling Uncertainties. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2021 , 2-18	2.6	5
105	Event-triggering (\mathbb{H}_{∞})-based observer combined with NN for simultaneous estimation of vehicle sideslip and roll angles with network-induced delays. <i>Nonlinear Dynamics</i> , 2021 , 103, 2733-2752	5	4
104	Polytopic LPV approaches for intelligent automotive systems: State of the art and future challenges. <i>Mechanical Systems and Signal Processing</i> , 2021 , 161, 107931	7.8	23

103	Deception Attack Detection and Estimation for a Local Vehicle in Vehicle Platooning Based on a Modified UFIR Estimator. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 3693-3705	10.7	20
102	Distributed Deception Attack Detection in Platoon-Based Connected Vehicle Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 4609-4620	6.8	26
101	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 1-12	6.1	15
100	Simultaneous Input and State Estimation for Integrated Motor-Transmission Systems in a Controller Area Network Environment via an Adaptive Unscented Kalman Filter. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 50, 1570-1579	7.3	29
99	. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 442-450	8.9	10
98	. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 5012-5021	8.9	6
97	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 21, 3069-3079	6.1	38
96	. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 5637-5646	8.9	62
95	Robust Driver-Automation Shared Control For A Lane Keeping System Using Interval Type 2 Fuzzy Method 2019 ,		1
94	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 1075-1086	5.5	19
93	Adaptive Robust Triple-Step Control for Compensating Cogging Torque and Model Uncertainty in a DC Motor. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019 , 49, 2396-2405	7.3	17
92	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 2508-2518	5.5	24
91	DOS-Robust Dynamic Speed Tracking Controller for an Integrated Motor-Gearbox Powertrain System of a Connected Car 2019 ,		1
90	Trajectory planning and tracking control of a ground mobile robot:A reconstruction approach towards space vehicle. <i>ISA Transactions</i> , 2019 , 87, 116-128	5.5	14
89	Trailing pulses self-focusing for ultrasonic-based damage detection in thick plates. <i>Mechanical Systems and Signal Processing</i> , 2019 , 119, 420-431	7.8	7
88	. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 7239-7247	8.9	88
87	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2018 , 54, 642-654	3.7	45
86	Robust Gain-Scheduling Control of Vehicle Lateral Dynamics Through AFS/DYC 2018 , 339-368		4

85	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 1404-1414	5.5	18
84	Simultaneous Trajectory Planning and Tracking Using an MPC Method for Cyber-Physical Systems: A Case Study of Obstacle Avoidance for an Intelligent Vehicle. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 4273-4283	11.9	99
83	. <i>IEEE Transactions on Control of Network Systems</i> , 2018 , 5, 79-92	4	25
82	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 190-199	5.5	8
81	Cloud-based shaft torque estimation for electric vehicle equipped with integrated motor-transmission system. <i>Mechanical Systems and Signal Processing</i> , 2018 , 99, 647-660	7.8	31
80	NH ₃ Coverage Ratio Estimation of Diesel-Engine SCR Systems by a Dual Time-Scale Extended Kalman Filter. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 3625-3629	6.8	10
79	Inlet NO and NH ₃ Concentration Estimation for Diesel-engine SCR Systems by Combining Data-Driven Model and Unbiased FIR Filter. <i>IFAC-PapersOnLine</i> , 2018 , 51, 314-318	0.7	1
78	Progress in Automotive Transmission Technology. <i>Automotive Innovation</i> , 2018 , 1, 187-210	1.7	30
77	An extended Kalman filter for input estimations in diesel-engine selective catalytic reduction applications. <i>Neurocomputing</i> , 2016 , 171, 569-575	5.4	14
76	Vehicle Lateral Dynamics Control Through AFS/DYC and Robust Gain-Scheduling Approach. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 489-494	6.8	211
75	. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 4865-4874	6.8	49
74	. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 1557-1572	4.8	60
73	. <i>IEEE Transactions on Transportation Electrification</i> , 2016 , 2, 200-209	7.6	36
72	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016 , 21, 1659-1670	5.5	162
71	Optimal design of an electro-hydraulic valve for heavy-duty vehicle clutch actuator with certain constraints. <i>Mechanical Systems and Signal Processing</i> , 2016 , 68-69, 491-503	7.8	34
70	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016 , 21, 1742-1753	5.5	32
69	Adaptive Sliding-Mode Observer Design for a Selective Catalytic Reduction System of Ground-Vehicle Diesel Engines. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016 , 21, 2027-2038	5.5	151
68	. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 1-1	6.8	70

67	Combustion and emission characteristics of a direct-injection gasoline engine using the MMT fuel additive gasoline. <i>Fuel</i> , 2015 , 144, 380-387	7.1	17
66	Robust speed synchronization control for clutchless automated manual transmission systems in electric vehicles. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2015 , 229, 424-436	1.4	45
65	Removal of NO _x sensor ammonia cross sensitivity from contaminated measurements in Diesel-engine selective catalytic reduction systems. <i>Fuel</i> , 2015 , 150, 448-456	7.1	21
64	Decentralized robust attitude tracking control for spacecraft networks under unknown inertia matrices. <i>Neurocomputing</i> , 2015 , 165, 202-210	5.4	23
63	Robust energy-to-peak sideslip angle estimation with applications to ground vehicles. <i>Mechatronics</i> , 2015 , 30, 338-347	3	90
62	Cycle-based ammonia-coverage-ratio reference generator design for Diesel engine two-cell selective catalytic reduction systems via a fuzzy approach. <i>Fuel</i> , 2015 , 159, 76-83	7.1	7
61	Finite-Time H_{∞} Filtering for T _S Fuzzy Discrete-Time Systems With Time-Varying Delay and Norm-Bounded Uncertainties. <i>IEEE Transactions on Fuzzy Systems</i> , 2015 , 23, 2427-2434	8.3	53
60	Robust two-mode-dependent controller design for networked control systems with random delays modelled by Markov chains. <i>International Journal of Control</i> , 2015 , 88, 2499-2509	1.5	24
59	Speed synchronization control for integrated automotive motor-transmission powertrain system with random delays. <i>Mechanical Systems and Signal Processing</i> , 2015 , 64-65, 46-57	7.8	49
58	NO _x Sensor Reading Correction in Diesel Engine Selective Catalytic Reduction System Applications. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 1-1	5.5	3
57	Robust control of integrated motor-transmission powertrain system over controller area network for automotive applications. <i>Mechanical Systems and Signal Processing</i> , 2015 , 58-59, 15-28	7.8	62
56	Ammonia coverage ratio and input simultaneous estimation in ground vehicle selective catalytic reduction (SCR) systems. <i>Journal of the Franklin Institute</i> , 2015 , 352, 708-723	4	24
55	Robust lateral motion control of four-wheel independently actuated electric vehicles with tire force saturation consideration. <i>Journal of the Franklin Institute</i> , 2015 , 352, 645-668	4	41
54	Cycle-based optimal NO _x emission control of selective catalytic reduction systems with dynamic programming algorithm. <i>Fuel</i> , 2015 , 141, 200-206	7.1	30
53	Load-dependent observer design for active suspension systems. <i>International Journal of Vehicle Design</i> , 2015 , 68, 162	2.4	2
52	State estimation for a four-wheel-independent-drive electric ground vehicle 2015 ,		2
51	State Estimation of Discrete-Time Takagi-Sugeno Fuzzy Systems in a Network Environment. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 1525-36	10.2	106
50	Robust driveshaft torque observer design for stepped ratio transmission in electric vehicles. <i>Neurocomputing</i> , 2015 , 164, 262-271	5.4	21

49	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 2222-2233	5.5	16
48	NOx Sensor Ammonia-Cross-Sensitivity Factor Estimation in Diesel Engine Selective Catalytic Reduction Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015 , 137,	1.6	14
47	Nonlinear Observer Design of Diesel Engine Selective Catalytic Reduction Systems With NO_x Sensor Measurements. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 1585-1594	5.5	32
46	Synthesis of multiple model switching controllers using H ∞ theory for systems with large uncertainties. <i>Neurocomputing</i> , 2015 , 157, 118-124	5.4	15
45	. <i>IEEE Transactions on Vehicular Technology</i> , 2015 , 64, 4985-4995	6.8	53
44	Comparative study on measurements of formaldehyde emission of methanol/gasoline fueled SI engine. <i>Fuel</i> , 2015 , 148, 9-15	7.1	25
43	Experimental investigation on the combustion and particulate matter (PM) emissions from a port-fuel injection (PFI) gasoline engine fueled with methanol/ultralow sulfur gasoline blends. <i>Fuel</i> , 2015 , 145, 221-227	7.1	43
42	Finite-time stability analysis and stabilization for uncertain continuous-time system with time-varying delay. <i>Journal of the Franklin Institute</i> , 2015 , 352, 1296-1317	4	36
41	. <i>IEEE Transactions on Vehicular Technology</i> , 2014 , 63, 591-602	6.8	219
40	Lateral motion control for four-wheel-independent-drive electric vehicles using optimal torque allocation and dynamic message priority scheduling. <i>Control Engineering Practice</i> , 2014 , 24, 55-66	3.9	116
39	Extended LMI representatives for stability and stabilization of discrete-time Takagi-Sugeno fuzzy systems. <i>Optimal Control Applications and Methods</i> , 2014 , 35, 647-655	1.7	3
38	Robust finite frequency H ∞ static-output-feedback control with application to vibration active control of structural systems. <i>Mechatronics</i> , 2014 , 24, 354-366	3	57
37	Robust H ∞ filtering of discrete-time networked nonlinear systems approximated by Takagi-Sugeno fuzzy technique 2014 ,		2
36	Optimal speed synchronization control for clutchless AMT systems in electric vehicles with preview actions 2014 ,		9
35	On Energy-to-Peak Filtering for Nonuniformly Sampled Nonlinear Systems: A Markovian Jump System Approach. <i>IEEE Transactions on Fuzzy Systems</i> , 2014 , 22, 212-222	8.3	192
34	Robust H ∞ sliding mode control with pole placement for a fluid power electrohydraulic actuator (EHA) system. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 73, 1095-1104	3.2	79
33	Finite-time stability analysis and stabilization for linear discrete-time system with time-varying delay. <i>Journal of the Franklin Institute</i> , 2014 , 351, 3457-3476	4	37
32	Combined feedback/feedforward tracking control for networked control systems with probabilistic delays. <i>Journal of the Franklin Institute</i> , 2014 , 351, 3477-3489	4	39

31	Linear Parameter-Varying Controller Design for Four-Wheel Independently Actuated Electric Ground Vehicles With Active Steering Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 1281-1296	4.8	113
30	Application of NMPC on optimization of ammonia coverage ratio references in two-can diesel SCR systems 2014 ,		6
29	Robust Weighted Gain-Scheduling H_{∞} Vehicle Lateral Motion Control With Considerations of Steering System Backlash-Type Hysteresis. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 1740-1753	4.8	78
28	Advanced Control and Optimization with Applications to Complex Automotive Systems. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-3	1.1	2
27	Time-domain Smith predictor in discrete-time networked control systems 2014 ,		1
26	Robust gain-scheduling energy-to-peak control of vehicle lateral dynamics stabilisation. <i>Vehicle System Dynamics</i> , 2014 , 52, 309-340	2.8	211
25	Linear parameter-varying-based fault-tolerant controller design for a class of over-actuated non-linear systems with applications to electric vehicles. <i>IET Control Theory and Applications</i> , 2014 , 8, 705-717	2.5	19
24	H_{∞} Step Tracking Control for Networked Discrete-Time Nonlinear Systems With Integral and Predictive Actions. <i>IEEE Transactions on Industrial Informatics</i> , 2013 , 9, 337-345	11.9	159
23	Robust sliding-mode control for Markovian jump systems subject to intermittent observations and partially known transition probabilities. <i>Systems and Control Letters</i> , 2013 , 62, 1114-1124	2.4	82
22	Observer-based tracking controller design for networked predictive control systems with uncertain Markov delays. <i>International Journal of Control</i> , 2013 , 86, 1824-1836	1.5	86
21	Parameter-Dependent H_{∞} Filtering for Linear Time-Varying Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2013 , 135,	1.6	20
20	Optimal H_{∞} Based Linear-Quadratic Regulator Tracking Control for Discrete-Time Takagi-Sugeno Fuzzy Systems With Preview Actions. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2013 , 135,	1.6	43
19	H_{∞} Switched Filtering for Networked Systems Based on Delay Occurrence Probabilities. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2013 , 135,	1.6	7
18	Robust Filtering for Ammonia Coverage Estimation in Diesel Engine Selective Catalytic Reduction Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2013 , 135,	1.6	26
17	Robust mixed H_2/H_{∞} gain-scheduling observer design for removal of NOx sensor ammonia cross sensitivity in selective catalytic reduction systems 2013 ,		1
16	Robust Finite Frequency H_{∞} Passive Fault Tolerant Static Output Feedback Control with Application to Active Vibration Attenuation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 340-346		3
15	On \mathcal{H}_{∞} Filtering for Discrete-Time Takagi-Sugeno Fuzzy Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2012 , 20, 396-401	8.3	134
14	state estimation for network-based systems subject to probabilistic delays. <i>Signal Processing</i> , 2012 , 92, 2700-2705	4.4	14

13	Robust H ∞ PID control for multivariable networked control systems with disturbance/noise attenuation. <i>International Journal of Robust and Nonlinear Control</i> , 2012 , 22, 183-204	3.6	149
12	Stability and stabilization in switched discrete-time systems. <i>International Journal of Adaptive Control and Signal Processing</i> , 2012 , 26, 991-1012	2.8	8
11	Observer-based tracking controller design for networked predictive control systems with uncertain Markov delays 2012 ,		5
10	Delay-Dependent Stabilization of Discrete-Time Systems With Time-Varying Delay via Switching Technique. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2012 , 134,	1.6	13
9	Observer-Based H ∞ Feedback Control for Arbitrarily Time-Varying Discrete-Time Systems With Intermittent Measurements and Input Constraints. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2012 , 134,	1.6	21
8	Robust Static Output Feedback Control and Remote PID Design for Networked Motor Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 5396-5405	8.9	206
7	Study on Squeeze Mode Magneto-Rheological Engine Mount with Robust H-Infinite Control 2011 ,		2
6	Application of fuzzy logic for autonomous bay parking of automobiles. <i>International Journal of Automation and Computing</i> , 2011 , 8, 445-451	3.5	10
5	Robust weighted H ∞ filtering for networked systems with intermittent measurements of multiple sensors. <i>International Journal of Adaptive Control and Signal Processing</i> , 2011 , 25, 313-330	2.8	110
4	Robust non-fragile dynamic vibration absorbers with uncertain factors. <i>Journal of Sound and Vibration</i> , 2011 , 330, 559-566	3.9	41
3	Robust FIR equalization for time-varying communication channels with intermittent observations via an LMI approach. <i>Signal Processing</i> , 2011 , 91, 1651-1658	4.4	55
2	Improved robust energy-to-peak filtering for uncertain linear systems. <i>Signal Processing</i> , 2010 , 90, 2667-2675	4.75	90
1	A tube-based robust MPC for duty-cycled rotation needle steering systems with bounded disturbances. <i>Transactions of the Institute of Measurement and Control</i> , 014233122110430	1.8	