

Wen-Hua Chen

List of Publications by Year in descending order

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227
papers

15,120
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228
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228
docs citations

228
times ranked

8793
citing authors

#	ARTICLE	IF	CITATIONS
1	Disturbance-Observer-Based Control and Related Methods—An Overview. IEEE Transactions on Industrial Electronics, 2016, 63, 1083-1095.	5.2	1,951
2	A nonlinear disturbance observer for robotic manipulators. IEEE Transactions on Industrial Electronics, 2000, 47, 932-938.	5.2	1,373
3	Disturbance Observer Based Control for Nonlinear Systems. IEEE/ASME Transactions on Mechatronics, 2004, 9, 706-710.	3.7	1,149
4	Adaptive fuzzy tracking control for a class of uncertain MIMO nonlinear systems using disturbance observer. Science China Information Sciences, 2014, 57, 1-13.	2.7	785
5	Disturbance attenuation and rejection for systems with nonlinearity via DOBC approach. International Journal of Robust and Nonlinear Control, 2005, 15, 109-125.	2.1	656
6	Generalized Extended State Observer Based Control for Systems With Mismatched Uncertainties. IEEE Transactions on Industrial Electronics, 2012, 59, 4792-4802.	5.2	646
7	Real-time motion planning methods for autonomous on-road driving: State-of-the-art and future research directions. Transportation Research Part C: Emerging Technologies, 2015, 60, 416-442.	3.9	549
8	Continuous nonsingular terminal sliding mode control for systems with mismatched disturbances. Automatica, 2013, 49, 2287-2291.	3.0	503
9	Nonlinear Disturbance Observer-Enhanced Dynamic Inversion Control of Missiles. Journal of Guidance, Control, and Dynamics, 2003, 26, 161-166.	1.6	474
10	Disturbance/Uncertainty Estimation and Attenuation Techniques in PMSM Drives—A Survey. IEEE Transactions on Industrial Electronics, 2017, 64, 3273-3285.	5.2	453
11	Optimal control of nonlinear systems: a predictive control approach. Automatica, 2003, 39, 633-641.	3.0	339
12	Non-linear disturbance observer-based robust control for systems with mismatched disturbances/uncertainties. IET Control Theory and Applications, 2011, 5, 2053-2062.	1.2	308
13	High-Order Mismatched Disturbance Compensation for Motion Control Systems Via a Continuous Dynamic Sliding-Mode Approach. IEEE Transactions on Industrial Informatics, 2014, 10, 604-614.	7.2	233
14	A review of source term estimation methods for atmospheric dispersion events using static or mobile sensors. Information Fusion, 2017, 36, 130-148.	11.7	232
15	Robust control of nonlinear MAGLEV suspension system with mismatched uncertainties via DOBC approach. ISA Transactions, 2011, 50, 389-396.	3.1	194
16	Disturbance Observer Design for Nonlinear Systems Represented by Input–Output Models. IEEE Transactions on Industrial Electronics, 2020, 67, 1222-1232.	5.2	191
17	Tracking control of small-scale helicopters using explicit nonlinear MPC augmented with disturbance observers. Control Engineering Practice, 2012, 20, 258-268.	3.2	183
18	Wheat yellow rust monitoring by learning from multispectral UAV aerial imagery. Computers and Electronics in Agriculture, 2018, 155, 157-166.	3.7	180

#	ARTICLE	IF	CITATIONS
19	Nonlinear disturbance observer-based control for multi-input multi-output nonlinear systems subject to mismatching condition. <i>International Journal of Control</i> , 2012, 85, 1071-1082.	1.2	169
20	Robust Nonlinear Predictive Controller for Permanent-Magnet Synchronous Motors With an Optimized Cost Function. <i>IEEE Transactions on Industrial Electronics</i> , 2012, 59, 2849-2858.	5.2	153
21	Robust Cascaded Nonlinear Predictive Control of a Permanent Magnet Synchronous Motor With Antiwindup Compensator. <i>IEEE Transactions on Industrial Electronics</i> , 2012, 59, 3078-3088.	5.2	131
22	Robust Fault-Tolerant Tracking Control for Spacecraft Proximity Operations Using Time-Varying Sliding Mode. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2018, 54, 2-17.	2.6	120
23	Sliding mode control for a class of uncertain nonlinear system based on disturbance observer. <i>International Journal of Adaptive Control and Signal Processing</i> , 2010, 24, 51-64.	2.3	115
24	Genetic algorithm based on receding horizon control for arrival sequencing and scheduling. <i>Engineering Applications of Artificial Intelligence</i> , 2005, 18, 633-642.	4.3	104
25	Fast and Accurate Trajectory Tracking Control of an Autonomous Surface Vehicle With Unmodeled Dynamics and Disturbances. <i>IEEE Transactions on Intelligent Vehicles</i> , 2016, 1, 230-243.	9.4	103
26	Disturbance-observer-based robust control for time delay uncertain systems. <i>International Journal of Control, Automation and Systems</i> , 2010, 8, 445-453.	1.6	101
27	Aerial Visual Perception in Smart Farming: Field Study of Wheat Yellow Rust Monitoring. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 2242-2249.	7.2	96
28	Backpropagating Constraints-Based Trajectory Tracking Control of a Quadrotor With Constrained Actuator Dynamics and Complex Unknowns. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019, 49, 1322-1337.	5.9	84
29	Receding Horizon Control for Aircraft Arrival Sequencing and Scheduling. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2005, 6, 189-197.	4.7	80
30	A new integrated collision risk assessment methodology for autonomous vehicles. <i>Accident Analysis and Prevention</i> , 2019, 127, 61-79.	3.0	75
31	Entrotaxis as a strategy for autonomous search and source reconstruction in turbulent conditions. <i>Information Fusion</i> , 2018, 42, 179-189.	11.7	65
32	Prediction of Lane-Changing Maneuvers with Automatic Labeling and Deep Learning. <i>Transportation Research Record</i> , 2020, 2674, 336-347.	1.0	65
33	A machine learning based personalized system for driving state recognition. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 105, 241-261.	3.9	64
34	Experimental evaluation of UAV spraying for peach trees of different shapes: Effects of operational parameters on droplet distribution. <i>Computers and Electronics in Agriculture</i> , 2020, 170, 105282.	3.7	63
35	Robust adaptive neural network synchronization controller design for a class of time delay uncertain chaotic systems. <i>Chaos, Solitons and Fractals</i> , 2009, 41, 2716-2724.	2.5	62
36	On existence, optimality and asymptotic stability of the Kalman filter with partially observed inputs. <i>Automatica</i> , 2015, 53, 149-154.	3.0	62

#	ARTICLE	IF	CITATIONS
37	Spatio-temporal monitoring of wheat yellow rust using UAV multispectral imagery. Computers and Electronics in Agriculture, 2019, 167, 105035.	3.7	60
38	Harmonic Disturbance Observer for Nonlinear Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2003, 125, 114-117.	0.9	58
39	Disturbance Observer Based Control with Anti-Windup Applied to a Small Fixed Wing UAV for Disturbance Rejection. Journal of Intelligent and Robotic Systems: Theory and Applications, 2017, 88, 329-346.	2.0	56
40	Flight Control Design for Small-Scale Helicopter Using Disturbance-Observer-Based Backstepping. Journal of Guidance, Control, and Dynamics, 2015, 38, 2235-2240.	1.6	55
41	Disturbance Rejection Flight Control for Small Fixed-Wing Unmanned Aerial Vehicles. Journal of Guidance, Control, and Dynamics, 2016, 39, 2810-2819.	1.6	54
42	On the terminal region of model predictive control for non-linear systems with input/state constraints. International Journal of Adaptive Control and Signal Processing, 2003, 17, 195-207.	2.3	51
43	On Relationship Between Time-Domain and Frequency-Domain Disturbance Observers and Its Applications. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	0.9	51
44	Path-following control for small fixed-wing unmanned aerial vehicles under wind disturbances. International Journal of Robust and Nonlinear Control, 2013, 23, 1682-1698.	2.1	50
45	Information-Based Search for an Atmospheric Release Using a Mobile Robot: Algorithm and Experiments. IEEE Transactions on Control Systems Technology, 2019, 27, 2388-2402.	3.2	50
46	Sentinel-2 Satellite Imagery for Urban Land Cover Classification by Optimized Random Forest Classifier. Applied Sciences (Switzerland), 2021, 11, 543.	1.3	50
47	Optimal Polygon Decomposition for UAV Survey Coverage Path Planning in Wind. Sensors, 2018, 18, 2132.	2.1	45
48	Optimal Path Following for Small Fixed-Wing UAVs Under Wind Disturbances. IEEE Transactions on Control Systems Technology, 2021, 29, 996-1008.	3.2	44
49	Predictive control of general nonlinear systems using approximation. IET Control Theory and Applications, 2004, 151, 137-144.	1.7	43
50	Source term estimation of a hazardous airborne release using an unmanned aerial vehicle. Journal of Field Robotics, 2019, 36, 797-817.	3.2	43
51	Continuous finite-time anti-disturbance control for a class of uncertain nonlinear systems. Transactions of the Institute of Measurement and Control, 2014, 36, 300-311.	1.1	42
52	Predictor-Based Disturbance Rejection Control for Sampled Systems With Input Delay. IEEE Transactions on Control Systems Technology, 2019, 27, 772-780.	3.2	42
53	Static disturbance-to-output decoupling for nonlinear systems with arbitrary disturbance relative degree. International Journal of Robust and Nonlinear Control, 2013, 23, 562-577.	2.1	41
54	Online optimisation-based backstepping control design with application to quadrotor. IET Control Theory and Applications, 2016, 10, 1601-1611.	1.2	39

#	ARTICLE	IF	CITATIONS
55	Advances in Disturbance/Uncertainty Estimation and Attenuation [Guest editors' introduction]. IEEE Transactions on Industrial Electronics, 2015, 62, 5758-5762.	5.2	38
56	Trajectory Clustering Aided Personalized Driver Intention Prediction for Intelligent Vehicles. IEEE Transactions on Industrial Informatics, 2019, 15, 3693-3702.	7.2	38
57	Model-Based Fault Diagnosis System Verification Using Reachability Analysis. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 742-751.	5.9	38
58	Potential Bands of Sentinel-2A Satellite for Classification Problems in Precision Agriculture. International Journal of Automation and Computing, 2019, 16, 16-26.	4.5	37
59	Boustrophedon coverage path planning for UAV aerial surveys in wind. , 2017, , .		35
60	Dimension Reduction Aided Hyperspectral Image Classification with a Small-sized Training Dataset: Experimental Comparisons. Sensors, 2017, 17, 2726.	2.1	35
61	Output-based disturbance rejection control for non-linear uncertain systems with unknown frequency disturbances using an observer backstepping approach. IET Control Theory and Applications, 2016, 10, 1052-1060.	1.2	34
62	Review of intelligent sprinkler irrigation technologies for remote autonomous system. International Journal of Agricultural and Biological Engineering, 2018, 11, 23-30.	0.3	33
63	Multiairport Capacity Management: Genetic Algorithm With Receding Horizon. IEEE Transactions on Intelligent Transportation Systems, 2007, 8, 254-263.	4.7	32
64	A Simulation Study of Predicting Real-Time Conflict-Prone Traffic Conditions. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3196-3207.	4.7	32
65	Optimal control for systems with varying sampling rate. , 2002, , .		31
66	Piecewise constant model predictive control for autonomous helicopters. Robotics and Autonomous Systems, 2011, 59, 571-579.	3.0	31
67	Implicit Personalization in Driving Assistance: State-of-the-Art and Open Issues. IEEE Transactions on Intelligent Vehicles, 2020, 5, 397-413.	9.4	31
68	Motion-control techniques of today and tomorrow: a review and discussion of the challenges of controlled motion. IEEE Industrial Electronics Magazine, 2020, 14, 41-55.	2.3	31
69	Reachability Analysis of Landing Sites for Forced Landing of a UAS. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 73, 635-653.	2.0	30
70	Dynamic decision making in lane change: Game theory with receding horizon. , 2016, , .		30
71	Multiple Model Ballistic Missile Tracking With State-Dependent Transitions and Gaussian Particle Filtering. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 1066-1081.	2.6	30
72	Negotiation and Decision-Making for a Pedestrian Roadway Crossing: A Literature Review. Sustainability, 2019, 11, 6713.	1.6	30

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73	Nonlinearity Estimator-Based Control of A Class of Uncertain Nonlinear Systems. IEEE Transactions on Automatic Control, 2020, 65, 2230-2236.	3.6	30
74	On a switching control scheme for nonlinear systems with ill-defined relative degree. Systems and Control Letters, 2002, 47, 159-166.	1.3	29
75	New Multiple-Target Tracking Strategy Using Domain Knowledge and Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 605-616.	5.9	29
76	Personalized Driver Workload Inference by Learning From Vehicle Related Measurements. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 159-168.	5.9	29
77	Bayesian Multiple Extended Target Tracking Using Labeled Random Finite Sets and Splines. IEEE Transactions on Signal Processing, 2018, 66, 6076-6091.	3.2	28
78	Prediction of rear-end conflict frequency using multiple-location traffic parameters. Accident Analysis and Prevention, 2021, 152, 106007.	3.0	28
79	Trajectory Planning for Communication Relay Unmanned Aerial Vehicles in Urban Dynamic Environments. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 89, 7-25.	2.0	27
80	Spectral analysis and mapping of blackgrass weed by leveraging machine learning and UAV multispectral imagery. Computers and Electronics in Agriculture, 2022, 192, 106621.	3.7	27
81	Stability analysis of classic finite horizon model predictive control. International Journal of Control, Automation and Systems, 2010, 8, 187-197.	1.6	25
82	Robust Control of Uncertain Nonlinear Systems: A Nonlinear DOBC Approach. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	0.9	25
83	Optimal positioning of communication relay unmanned aerial vehicles in urban environments. , 2016, , .		25
84	On the Actuator Dynamics of Dynamic Control Allocation for a Small Fixed-Wing UAV With Direct Lift Control. IEEE Transactions on Control Systems Technology, 2020, 28, 984-991.	3.2	25
85	Probabilistic faster R-CNN with stochastic region proposing: Towards object detection and recognition in remote sensing imagery. Neurocomputing, 2021, 459, 290-301.	3.5	25
86	Fast mission reliability prediction for Unmanned Aerial Vehicles. Reliability Engineering and System Safety, 2013, 120, 3-9.	5.1	24
87	Interaction of automated driving systems with pedestrians: challenges, current solutions, and recommendations for eHMI. Transport Reviews, 2021, 41, 788-813.	4.7	23
88	Optimisation of attraction domains of nonlinear MPC via LMI methods. , 2001, , .		22
89	An Auxiliary Particle Filtering Algorithm With Inequality Constraints. IEEE Transactions on Automatic Control, 2017, 62, 4639-4646.	3.6	22
90	Model predictive control for constrained systems with uncertain state-delays. International Journal of Robust and Nonlinear Control, 2004, 14, 1421-1432.	2.1	21

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91	Artificial Situation Awareness for Increased Autonomy of Unmanned Aerial Systems in the Terminal Area. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2013, 70, 545-555.	2.0	21
92	Further results on "Reduced order disturbance observer for discrete-time linear systems". <i>Automatica</i> , 2018, 93, 550-553.	3.0	21
93	QFT design for uncertain non-minimum phase and unstable plants revisited. <i>International Journal of Control</i> , 2001, 74, 957-965.	1.2	20
94	A Hybrid Approach of Learning and Model-Based Channel Prediction for Communication Relay UAVs in Dynamic Urban Environments. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 2370-2377.	3.3	20
95	MAINTAINING SYNCHRONIZATION BY DECENTRALIZED FEEDBACK CONTROL IN TIME DELAY NEURAL NETWORKS WITH PARAMETER UNCERTAINTIES. <i>International Journal of Neural Systems</i> , 2007, 17, 115-122.	3.2	19
96	Optimization-Based Safety Analysis of Obstacle Avoidance Systems for Unmanned Aerial Vehicles. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2012, 65, 219-231.	2.0	19
97	Landing Site Reachability in a Forced Landing of Unmanned Aircraft in Wind. <i>Journal of Aircraft</i> , 2017, 54, 1415-1427.	1.7	19
98	Unmanned Aerial Vehicle-Based Hazardous Materials Response: Information-Theoretic Hazardous Source Search and Reconstruction. <i>IEEE Robotics and Automation Magazine</i> , 2020, 27, 108-119.	2.2	19
99	Decomposition-based mission planning for fixed-wing UAVs surveying in wind. <i>Journal of Field Robotics</i> , 2020, 37, 440-465.	3.2	19
100	State and parameter estimation of the AquaCrop model for winter wheat using sensitivity informed particle filter. <i>Computers and Electronics in Agriculture</i> , 2021, 180, 105909.	3.7	19
101	Crash Risk Estimation Due to Lane Changing: A Data-Driven Approach Using Naturalistic Data. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 3756-3765.	4.7	19
102	Attitude control of magnetically actuated satellites with an uneven inertia distribution. <i>Aerospace Science and Technology</i> , 2013, 25, 29-39.	2.5	18
103	Particle Filtering With Soft State Constraints for Target Tracking. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2019, 55, 3492-3504.	2.6	18
104	Model predictive control of nonlinear systems: Stability region and feasible initial control. <i>International Journal of Automation and Computing</i> , 2007, 4, 195-202.	4.5	17
105	Gaussian Process Based Channel Prediction for Communication-Relay UAV in Urban Environments. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2020, 56, 313-325.	2.6	17
106	Fuzzy-Based Super-Twisting Sliding Mode Stabilization Control for Under-Actuated Rotary Inverted Pendulum Systems. <i>IEEE Access</i> , 2020, 8, 185079-185092.	2.6	17
107	Ir-UNet: Irregular Segmentation U-Shape Network for Wheat Yellow Rust Detection by UAV Multispectral Imagery. <i>Remote Sensing</i> , 2021, 13, 3892.	1.8	17
108	Chattering-free condition for sliding mode control with unidirectional auxiliary surfaces. <i>Transactions of the Institute of Measurement and Control</i> , 2013, 35, 593-605.	1.1	16

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109	An improved multiple model particle filtering approach for manoeuvring target tracking using airborne GMTI with geographic information. <i>Aerospace Science and Technology</i> , 2016, 52, 62-69.	2.5	16
110	Composite nonlinear bilateral control for teleoperation systems with external disturbances. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2019, 6, 1220-1229.	8.5	16
111	Path following for small UAVs in the presence of wind disturbance. , 2012, , .		15
112	High order disturbance observer design for linear and nonlinear systems. , 2015, , .		15
113	Robust nonlinear generalised predictive control for a class of uncertain nonlinear systems via an integral sliding mode approach. <i>International Journal of Control</i> , 2016, 89, 1698-1710.	1.2	15
114	Dual Control for Exploitation and Exploration (DCEE) in autonomous search. <i>Automatica</i> , 2021, 133, 109851.	3.0	15
115	Robust nonlinear generalized predictive control of a permanent magnet synchronous motor with an anti-windup compensator. , 2010, , .		14
116	An explicit MPC for quadrotor trajectory tracking. , 2015, , .		14
117	Disturbance observers and applications. <i>Transactions of the Institute of Measurement and Control</i> , 2016, 38, 621-624.	1.1	14
118	An enhanced particle filtering method for GMTI radar tracking. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2016, 52, 1408-1420.	2.6	14
119	Joint State and Fault Estimation of Complex Networks Under Measurement Saturations and Stochastic Nonlinearities. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , 2022, 8, 173-186.	1.6	14
120	Site Selection During Unmanned Aerial System Forced Landings Using Decision-Making Bayesian Networks. <i>Journal of Aerospace Information Systems</i> , 2016, 13, 491-495.	1.0	13
121	Model Predictive Control of Low Earth Orbiting Spacecraft with Magneto-torquers. , 2006, , .		13
122	Control of sampled-data systems with variable sampling rate. <i>International Journal of Systems Science</i> , 2006, 37, 609-618.	3.7	12
123	Constrained predictive pole-placement control with linear models. <i>Automatica</i> , 2006, 42, 613-618.	3.0	12
124	Reduced-order disturbance observer design for discrete-time linear stochastic systems. <i>Transactions of the Institute of Measurement and Control</i> , 2016, 38, 657-664.	1.1	12
125	Informative Path Planning for Gas Distribution Mapping in Cluttered Environments. , 2020, , .		12
126	Plant Template Generation for Uncertain Plants in Quantitative Feedback Theory. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1999, 121, 358-364.	0.9	11

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127	Model predictive control of low Earth-orbiting satellites using magnetic actuation. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2008, 222, 619-631.	0.7	11
128	State dependent multiple model-based particle filtering for ballistic missile tracking in a low-observable environment. Aerospace Science and Technology, 2017, 67, 144-154.	2.5	11
129	Constrained anti-disturbance control for a quadrotor based on differential flatness. International Journal of Systems Science, 2017, 48, 1182-1193.	3.7	11
130	Adaptive Bayesian Sensor Motion Planning for Hazardous Source Term Reconstruction. IFAC-PapersOnLine, 2017, 50, 2812-2817.	0.5	11
131	New Driver Workload Prediction Using Clustering-Aided Approaches. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 64-70.	5.9	11
132	Finite-time disturbance observer-based modified super-twisting algorithm for systems with mismatched disturbances: Application to fixed-wing UAVs under wind disturbances. International Journal of Robust and Nonlinear Control, 2021, 31, 7317-7343.	2.1	11
133	Regulation of Magnetically Actuated Satellites using Model Predictive Control with Disturbance Modelling. , 2008, , .		10
134	Autonomous Source Term Estimation in Unknown Environments: From a Dual Control Concept to UAV Deployment. IEEE Robotics and Automation Letters, 2022, 7, 2274-2281.	3.3	10
135	Model Predictive Control With Preview: Recursive Feasibility and Stability. , 2022, 6, 2647-2652.		10
136	Model predictive control of low earth orbiting spacecraft with magneto-torquers. , 2006, , .		9
137	Model predictive control for non-linear missiles. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2007, 221, 1077-1089.	0.7	9
138	Optimisation based control framework for autonomous vehicles: Algorithm and experiment. , 2010, , .		9
139	Variable sampling-time nonlinear model predictive control of satellites using magneto-torquers. Systems Science and Control Engineering, 2014, 2, 593-601.	1.8	9
140	Machine Vision for UAS Ground Operations. Journal of Intelligent and Robotic Systems: Theory and Applications, 2017, 88, 527-546.	2.0	9
141	Communication-Aware Trajectory Planning for Unmanned Aerial Vehicles in Urban Environments. Journal of Guidance, Control, and Dynamics, 2018, 41, 2271-2282.	1.6	9
142	Closed-form nonlinear MPC for multivariable nonlinear systems with different relative degree. , 0, , .		8
143	Receding Horizon Control for Airport Capacity Management. IEEE Transactions on Control Systems Technology, 2007, 15, 1131-1136.	3.2	8
144	Trajectory tracking of small helicopters using explicit nonlinear MPC and DOBC. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1498-1503.	0.4	8

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145	Simultaneous state and input estimation with partial information on the inputs. <i>Systems Science and Control Engineering</i> , 2015, 3, 445-452.	1.8	8
146	Worst-case analysis of moving obstacle avoidance systems for unmanned vehicles. <i>Robotica</i> , 2015, 33, 807-827.	1.3	8
147	Disturbance observer based control for gust alleviation of a small fixed-wing UAS. , 2016, , .		8
148	Improved Situation Awareness for Autonomous Taxiing Through Self-Learning. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016, 17, 3553-3564.	4.7	8
149	Fault diagnosis for vehicle lateral dynamics with robust threshold. , 2016, , .		8
150	Fixed Wing UAV Survey Coverage Path Planning in Wind for Improving Existing Ground Control Station Software. , 2018, , .		8
151	Snow Coverage Mapping by Learning from Sentinel-2 Satellite Multispectral Images via Machine Learning Algorithms. <i>Remote Sensing</i> , 2022, 14, 782.	1.8	8
152	Output feedback H^∞ control for a class of uncertain nonlinear discrete-time delay systems. <i>Transactions of the Institute of Measurement and Control</i> , 2003, 25, 107-121.	1.1	7
153	Disturbance observer based control for nonlinear MAGLEV suspension system. , 2010, , .		7
154	Stability Analysis of Constrained Nonlinear Model Predictive Control with Terminal Weighting. <i>Asian Journal of Control</i> , 2012, 14, 1374-1381.	1.9	7
155	Disturbance observer based fault diagnosis. , 2014, , .		7
156	Image segmentation for automated taxiing of Unmanned Aircraft. , 2015, , .		7
157	Enhanced situation awareness for unmanned aerial vehicle operating in terminal areas with circuit flight rules. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2016, 230, 1683-1693.	0.7	7
158	Prediction of air-to-ground communication strength for relay UAV trajectory planner in urban environments. , 2017, , .		7
159	Cyber security and its impact on CAV safety: Overview, policy needs and challenges. <i>Advances in Transport Policy and Planning</i> , 2020, 5, 73-94.	0.7	7
160	Output feedback control for mobile robot systems with significant external disturbances. <i>Science China Information Sciences</i> , 2020, 63, 1.	2.7	7
161	Nonlinear ESO-based vibration control for an all-clamped piezoelectric plate with disturbances and time delay: Design and hardware implementation. <i>Journal of Intelligent Material Systems and Structures</i> , 2022, 33, 2321-2335.	1.4	7
162	Design of minimax robust LQG controllers under parameter and noise uncertainties. <i>International Journal of Robust and Nonlinear Control</i> , 1994, 4, 713-722.	2.1	6

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163	Maximisation of feasibility/stability regions of model predictive control for constrained linear systems. IET Control Theory and Applications, 2002, 149, 243-246.	1.7	6
164	Trajectory generation for autonomous soaring UAS. International Journal of Automation and Computing, 2012, 9, 248-256.	4.5	6
165	Road network based vehicle navigation using an improved IMM particle filter*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 193-198.	0.4	6
166	Development of a generic network enabled autonomous vehicle system. , 2014, , .		6
167	Nonlinear composite bilateral control framework for n-DOF teleoperation systems with disturbances. Science China Information Sciences, 2018, 61, 1.	2.7	6
168	Experimental Assessment of Plume Mapping using Point Measurements from Unmanned Vehicles. , 2019, , .		6
169	Identification of driving simulator sessions of depressed drivers: A comparison between aggregated and time-series classification. Transportation Research Part F: Traffic Psychology and Behaviour, 2020, 75, 16-25.	1.8	6
170	Perspective view of autonomous control in unknown environment: Dual control for exploitation and exploration vs reinforcement learning. Neurocomputing, 2022, 497, 50-63.	3.5	6
171	Nonlinear Disturbance Observer Based Control for Nonlinear Systems with Harmonic Disturbances. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 329-334.	0.4	5
172	Automatic differentiation based nonlinear model predictive control of satellites using magneto-torquers. , 2009, , .		5
173	Experimental tests of autonomous ground vehicles with preview. International Journal of Automation and Computing, 2010, 7, 342-348.	4.5	5
174	Optimisation-based verification process of obstacle avoidance systems for unicycle-like mobile robots. International Journal of Automation and Computing, 2011, 8, 340-347.	4.5	5
175	Reachability analysis of landing sites for forced landing of a UAS. , 2013, , .		5
176	Communication-aware convoy following guidance for UAVs in a complex urban environment. , 2016, , .		5
177	Flight Testing Boustrophedon Coverage Path Planning for Fixed Wing UAVs in Wind. , 2019, , .		5
178	Economic Model-Predictive Control for Aircraft Forced Landing: Framework and Two-Level Implementation. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 1119-1132.	2.6	5
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