

# Wen-Hua Chen

## List of Publications by Year in descending order

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227  
papers

15,120  
citations

50276

46  
h-index

18647

119  
g-index

228  
all docs

228  
docs citations

228  
times ranked

8793  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Offline Closed-Form Optimal Predictive Power Management Strategy for Plug-In Hybrid Electric Vehicles. IEEE Transactions on Control Systems Technology, 2023, 31, 543-554.	5.2	0
2	On the game-theoretic analysis of distributed generative adversarial networks. International Journal of Intelligent Systems, 2022, 37, 516-534.	5.7	1
3	Crash Risk Estimation Due to Lane Changing: A Data-Driven Approach Using Naturalistic Data. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3756-3765.	8.0	19
4	Economic Model-Predictive Control for Aircraft Forced Landing: Framework and Two-Level Implementation. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 1119-1132.	4.7	5
5	Spectral analysis and mapping of blackgrass weed by leveraging machine learning and UAV multispectral imagery. Computers and Electronics in Agriculture, 2022, 192, 106621.	7.7	27
6	Autonomous Source Term Estimation in Unknown Environments: From a Dual Control Concept to UAV Deployment. IEEE Robotics and Automation Letters, 2022, 7, 2274-2281.	5.1	10
7	Joint State and Fault Estimation of Complex Networks Under Measurement Saturations and Stochastic Nonlinearities. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 173-186.	2.8	14
8	Snow Coverage Mapping by Learning from Sentinel-2 Satellite Multispectral Images via Machine Learning Algorithms. Remote Sensing, 2022, 14, 782.	4.0	8
9	Nonlinear ESO-based vibration control for an all-clamped piezoelectric plate with disturbances and time delay: Design and hardware implementation. Journal of Intelligent Material Systems and Structures, 2022, 33, 2321-2335.	2.5	7
10	Model Predictive Control With Preview: Recursive Feasibility and Stability. , 2022, 6, 2647-2652.		10
11	Perspective view of autonomous control in unknown environment: Dual control for exploitation and exploration vs reinforcement learning. Neurocomputing, 2022, 497, 50-63.	5.9	6
12	Stability of finite horizon optimisation based control without terminal weight. International Journal of Systems Science, 2022, 53, 3524-3537.	5.5	2
13	Optimal Path Following for Small Fixed-Wing UAVs Under Wind Disturbances. IEEE Transactions on Control Systems Technology, 2021, 29, 996-1008.	5.2	44
14	Aerial Visual Perception in Smart Farming: Field Study of Wheat Yellow Rust Monitoring. IEEE Transactions on Industrial Informatics, 2021, 17, 2242-2249.	11.3	96
15	State and parameter estimation of the AquaCrop model for winter wheat using sensitivity informed particle filter. Computers and Electronics in Agriculture, 2021, 180, 105909.	7.7	19
16	Prediction of rear-end conflict frequency using multiple-location traffic parameters. Accident Analysis and Prevention, 2021, 152, 106007.	5.7	28
17	Interaction of automated driving systems with pedestrians: challenges, current solutions, and recommendations for eHMI. Transport Reviews, 2021, 41, 788-813.	8.8	23
18	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.	3.7	11

#	ARTICLE	IF	CITATIONS
19	Ir-UNet: Irregular Segmentation U-Shape Network for Wheat Yellow Rust Detection by UAV Multispectral Imagery. <i>Remote Sensing</i> , 2021, 13, 3892.	4.0	17
20	Probabilistic faster R-CNN with stochastic region proposing: Towards object detection and recognition in remote sensing imagery. <i>Neurocomputing</i> , 2021, 459, 290-301.	5.9	25
21	Dual Control for Exploitation and Exploration (DCEE) in autonomous search. <i>Automatica</i> , 2021, 133, 109851.	5.0	15
22	Sentinel-2 Satellite Imagery for Urban Land Cover Classification by Optimized Random Forest Classifier. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 543.	2.5	50
23	Dual-layer optimization-based control allocation for a fixed-wing UAV. <i>Aerospace Science and Technology</i> , 2021, 119, 107184.	4.8	3
24	Automatic Lane Merge based on Model Predictive Control. , 2021, , .		3
25	Disturbance Observer Design for Nonlinear Systems Represented by Input-Output Models. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 1222-1232.	7.9	191
26	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.	4.7	17
27	Nonlinearity Estimator-Based Control of A Class of Uncertain Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 2230-2236.	5.7	30
28	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.	2.0	19
29	Decomposition-based mission planning for fixed-wing UAVs surveying in wind. <i>Journal of Field Robotics</i> , 2020, 37, 440-465.	6.0	19
30	Implicit Personalization in Driving Assistance: State-of-the-Art and Open Issues. <i>IEEE Transactions on Intelligent Vehicles</i> , 2020, 5, 397-413.	12.7	31
31	Identification of driving simulator sessions of depressed drivers: A comparison between aggregated and time-series classification. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2020, 75, 16-25.	3.7	6
32	Fuzzy-Based Super-Twisting Sliding Mode Stabilization Control for Under-Actuated Rotary Inverted Pendulum Systems. <i>IEEE Access</i> , 2020, 8, 185079-185092.	4.2	17
33	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.	1.5	7
34	Prediction of Lane-Changing Maneuvers with Automatic Labeling and Deep Learning. <i>Transportation Research Record</i> , 2020, 2674, 336-347.	1.9	65
35	Motion-control techniques of today and tomorrow: a review and discussion of the challenges of controlled motion. <i>IEEE Industrial Electronics Magazine</i> , 2020, 14, 41-55.	2.6	31
36	On the Actuator Dynamics of Dynamic Control Allocation for a Small Fixed-Wing UAV With Direct Lift Control. <i>IEEE Transactions on Control Systems Technology</i> , 2020, 28, 984-991.	5.2	25

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37	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.	7.7	63
38	Visual Tracking With Online Assessment and Improved Sampling Strategy. <i>IEEE Access</i> , 2020, 8, 36948-36962.	4.2	3
39	Output feedback control for mobile robot systems with significant external disturbances. <i>Science China Information Sciences</i> , 2020, 63, 1.	4.3	7
40	Informative Path Planning for Gas Distribution Mapping in Cluttered Environments. , 2020, , .		12
41	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.	9.3	84
42	Flight Testing Boustrophedon Coverage Path Planning for Fixed Wing UAVs in Wind. , 2019, , .		5
43	Experimental Validation of Gaussian Process-Based Air-to-Ground Communication Quality Prediction in Urban Environments. <i>Sensors</i> , 2019, 19, 3221.	3.8	1
44	Joint Retrieval of Growing Season Corn Canopy LAI and Leaf Chlorophyll Content by Fusing Sentinel-2 and MODIS Images. <i>Remote Sensing</i> , 2019, 11, 2409.	4.0	4
45	Experimental Assessment of Plume Mapping using Point Measurements from Unmanned Vehicles. , 2019, , .		6
46	Spatio-temporal monitoring of wheat yellow rust using UAV multispectral imagery. <i>Computers and Electronics in Agriculture</i> , 2019, 167, 105035.	7.7	60
47	A machine learning based personalized system for driving state recognition. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 105, 241-261.	7.6	64
48	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.	5.1	20
49	A new integrated collision risk assessment methodology for autonomous vehicles. <i>Accident Analysis and Prevention</i> , 2019, 127, 61-79.	5.7	75
50	Particle Filtering With Soft State Constraints for Target Tracking. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2019, 55, 3492-3504.	4.7	18
51	Big Data and Emerging Transportation Challenges: Findings from the NOESIS project. , 2019, , .		3
52	Performance Evaluation of Learning-Based Channel Prediction for Communication Relay UAVs in Urban Environments. <i>IFAC-PapersOnLine</i> , 2019, 52, 292-297.	0.9	0
53	Negotiation and Decision-Making for a Pedestrian Roadway Crossing: A Literature Review. <i>Sustainability</i> , 2019, 11, 6713.	3.2	30
54	Information-Based Search for an Atmospheric Release Using a Mobile Robot: Algorithm and Experiments. <i>IEEE Transactions on Control Systems Technology</i> , 2019, 27, 2388-2402.	5.2	50

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55	Trajectory Clustering Aided Personalized Driver Intention Prediction for Intelligent Vehicles. IEEE Transactions on Industrial Informatics, 2019, 15, 3693-3702.	11.3	38
56	Source term estimation of a hazardous airborne release using an unmanned aerial vehicle. Journal of Field Robotics, 2019, 36, 797-817.	6.0	43
57	Composite nonlinear bilateral control for teleoperation systems with external disturbances. IEEE/CAA Journal of Automatica Sinica, 2019, 6, 1220-1229.	13.1	16
58	New Driver Workload Prediction Using Clustering-Aided Approaches. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 64-70.	9.3	11
59	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
60	Model-Based Fault Diagnosis System Verification Using Reachability Analysis. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 742-751.	9.3	38
61	Predictor-Based Disturbance Rejection Control for Sampled Systems With Input Delay. IEEE Transactions on Control Systems Technology, 2019, 27, 772-780.	5.2	42
62	Personalized Driver Workload Inference by Learning From Vehicle Related Measurements. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 159-168.	9.3	29
63	Multiple Model Ballistic Missile Tracking With State-Dependent Transitions and Gaussian Particle Filtering. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 1066-1081.	4.7	30
64	A Simulation Study of Predicting Real-Time Conflict-Prone Traffic Conditions. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3196-3207.	8.0	32
65	Entrotaxis as a strategy for autonomous search and source reconstruction in turbulent conditions. Information Fusion, 2018, 42, 179-189.	19.1	65
66	Actuator dynamics augmented DOBC for a small scale fixed wing UAV. , 2018, , .		1
67	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.	3.4	27
68	Robust Fault-Tolerant Tracking Control for Spacecraft Proximity Operations Using Time-Varying Sliding Mode. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 2-17.	4.7	120
69	Bayesian Estimation of A Periodically-Releasing Biochemical Source Using Sensor Networks. , 2018, , .		1
70	Aerodrome situational awareness of unmanned aircraft: an integrated self-learning approach with Bayesian network semantic segmentation. IET Intelligent Transport Systems, 2018, 12, 868-874.	3.0	3
71	Development of nonlinear disturbance observer based control and nonlinear PID: A personal note. Control Theory and Technology, 2018, 16, 284-300.	1.6	4
72	Bayesian Calibration of AquaCrop Model. , 2018, , .		1

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73	Wheat Drought Assessment by Remote Sensing Imagery Using Unmanned Aerial Vehicle. , 2018, , .		4
74	Bayesian Multiple Extended Target Tracking Using Labeled Random Finite Sets and Splines. IEEE Transactions on Signal Processing, 2018, 66, 6076-6091.	5.3	28
75	A Simple Optimal Planer Path Following Algorithm for Unmanned Aerial Vehicles— , 2018, , .		1
76	Information Based Mobile Sensor Planning for Source Term Estimation of a Non-Continuous Atmospheric Release. , 2018, , .		2
77	Fixed Wing UAV Survey Coverage Path Planning in Wind for Improving Existing Ground Control Station Software. , 2018, , .		8
78	Wheat yellow rust monitoring by learning from multispectral UAV aerial imagery. Computers and Electronics in Agriculture, 2018, 155, 157-166.	7.7	180
79	Further results on “Reduced order disturbance observer for discrete-time linear systems” Automatica, 2018, 93, 550-553.	5.0	21
80	Nonlinear composite bilateral control framework for n-DOF teleoperation systems with disturbances. Science China Information Sciences, 2018, 61, 1.	4.3	6
81	Optimal Polygon Decomposition for UAV Survey Coverage Path Planning in Wind. Sensors, 2018, 18, 2132.	3.8	45
82	Communication-Aware Trajectory Planning for Unmanned Aerial Vehicles in Urban Environments. Journal of Guidance, Control, and Dynamics, 2018, 41, 2271-2282.	2.8	9
83	Review of intelligent sprinkler irrigation technologies for remote autonomous system. International Journal of Agricultural and Biological Engineering, 2018, 11, 23-30.	0.6	33
84	Disturbance/Uncertainty Estimation and Attenuation Techniques in PMSM Drives—A Survey. IEEE Transactions on Industrial Electronics, 2017, 64, 3273-3285.	7.9	453
85	An Auxiliary Particle Filtering Algorithm With Inequality Constraints. IEEE Transactions on Automatic Control, 2017, 62, 4639-4646.	5.7	22
86	Landing Site Reachability in a Forced Landing of Unmanned Aircraft in Wind. Journal of Aircraft, 2017, 54, 1415-1427.	2.4	19
87	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.	3.4	56
88	State dependent multiple model-based particle filtering for ballistic missile tracking in a low-observable environment. Aerospace Science and Technology, 2017, 67, 144-154.	4.8	11
89	Boustrophedon coverage path planning for UAV aerial surveys in wind. , 2017, , .		35
90	Machine Vision for UAS Ground Operations. Journal of Intelligent and Robotic Systems: Theory and Applications, 2017, 88, 527-546.	3.4	9

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91	A review of source term estimation methods for atmospheric dispersion events using static or mobile sensors. <i>Information Fusion</i> , 2017, 36, 130-148.	19.1	232
92	Constrained anti-disturbance control for a quadrotor based on differential flatness. <i>International Journal of Systems Science</i> , 2017, 48, 1182-1193.	5.5	11
93	New Multiple-Target Tracking Strategy Using Domain Knowledge and Optimization. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017, 47, 605-616.	9.3	29
94	Prediction of air-to-ground communication strength for relay UAV trajectory planner in urban environments. , 2017, , .		7
95	Adaptive Bayesian Sensor Motion Planning for Hazardous Source Term Reconstruction. <i>IFAC-PapersOnLine</i> , 2017, 50, 2812-2817.	0.9	11
96	Dimension Reduction Aided Hyperspectral Image Classification with a Small-sized Training Dataset: Experimental Comparisons. <i>Sensors</i> , 2017, 17, 2726.	3.8	35
97	Disturbance observer based control for gust alleviation of a small fixed-wing UAS. , 2016, , .		8
98	Unmanned ground operations using semantic image segmentation through a Bayesian network. , 2016, , .		2
99	Situation awareness for UAV operating in terminal areas using bearing-only observations and circuit flight rules. , 2016, , .		2
100	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.	12.7	103
101	Site Selection During Unmanned Aerial System Forced Landings Using Decision-Making Bayesian Networks. <i>Journal of Aerospace Information Systems</i> , 2016, 13, 491-495.	1.4	13
102	On Relationship Between Time-Domain and Frequency-Domain Disturbance Observers and Its Applications. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2016, 138, .	1.6	51
103	Data-driven situation awareness algorithm for vehicle lane change. , 2016, , .		2
104	Robust Control of Uncertain Nonlinear Systems: A Nonlinear DOBC Approach. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2016, 138, .	1.6	25
105	Improved Situation Awareness for Autonomous Taxiing Through Self-Learning. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016, 17, 3553-3564.	8.0	8
106	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.	1.3	7
107	Output-based disturbance rejection control for non-linear uncertain systems with unknown frequency disturbances using an observer backstepping approach. <i>IET Control Theory and Applications</i> , 2016, 10, 1052-1060.	2.1	34
108	Disturbance observers and applications. <i>Transactions of the Institute of Measurement and Control</i> , 2016, 38, 621-624.	1.7	14

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109	An enhanced particle filtering method for GMTI radar tracking. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 1408-1420.	4.7	14
110	Online optimisation-based backstepping control design with application to quadrotor. IET Control Theory and Applications, 2016, 10, 1601-1611.	2.1	39
111	Optimal positioning of communication relay unmanned aerial vehicles in urban environments. , 2016, , .		25
112	Dynamic decision making in lane change: Game theory with receding horizon. , 2016, , .		30
113	Communication-aware convoy following guidance for UAVs in a complex urban environment. , 2016, , .		5
114	Disturbance Rejection Flight Control for Small Fixed-Wing Unmanned Aerial Vehicles. Journal of Guidance, Control, and Dynamics, 2016, 39, 2810-2819.	2.8	54
115	New Environmental Dependent Modelling with Gaussian Particle Filtering Based Implementation for Ground Vehicle Tracking. , 2016, , .		1
116	Fault diagnosis for vehicle lateral dynamics with robust threshold. , 2016, , .		8
117	Disturbance-Observer-Based Control and Related Methods—An Overview. IEEE Transactions on Industrial Electronics, 2016, 63, 1083-1095.	7.9	1,951
118	Reduced-order disturbance observer design for discrete-time linear stochastic systems. Transactions of the Institute of Measurement and Control, 2016, 38, 657-664.	1.7	12
119	An improved multiple model particle filtering approach for manoeuvring target tracking using airborne GMTI with geographic information. Aerospace Science and Technology, 2016, 52, 62-69.	4.8	16
120	Robust nonlinear generalised predictive control for a class of uncertain nonlinear systems via an integral sliding mode approach. International Journal of Control, 2016, 89, 1698-1710.	1.9	15
121	Coordinated standoff tracking of in- and out-of-surveillance targets using constrained particle filter for UAVs. , 2015, , .		0
122	Reachability analysis of landing sites for forced landing of a UAS in wind using trochoidal turn paths. , 2015, , .		4
123	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.	7.6	549
124	On existence, optimality and asymptotic stability of the Kalman filter with partially observed inputs. Automatica, 2015, 53, 149-154.	5.0	62
125	Image segmentation for automated taxiing of Unmanned Aircraft. , 2015, , .		7
126	Recursive filter with partial knowledge on inputs and outputs. International Journal of Automation and Computing, 2015, 12, 35-42.	4.5	3



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127	Simultaneous state and input estimation with partial information on the inputs. <i>Systems Science and Control Engineering</i> , 2015, 3, 445-452.	3.1	8
128	Advances in Disturbance/Uncertainty Estimation and Attenuation [Guest editors' introduction]. <i>IEEE Transactions on Industrial Electronics</i> , 2015, 62, 5758-5762.	7.9	38
129	An explicit MPC for quadrotor trajectory tracking. , 2015, , .		14
130	Flight Control Design for Small-Scale Helicopter Using Disturbance-Observer-Based Backstepping. <i>Journal of Guidance, Control, and Dynamics</i> , 2015, 38, 2235-2240.	2.8	55
131	High order disturbance observer design for linear and nonlinear systems. , 2015, , .		15
132	Worst-case analysis of moving obstacle avoidance systems for unmanned vehicles. <i>Robotica</i> , 2015, 33, 807-827.	1.9	8
133	Variable sampling-time nonlinear model predictive control of satellites using magneto-torquers. <i>Systems Science and Control Engineering</i> , 2014, 2, 593-601.	3.1	9
134	Nonlinear state estimation with nonlinear equality constraints. , 2014, , .		1
135	A Bayesian framework with an auxiliary particle filter for GMTI-based ground vehicle tracking aided by domain knowledge. , 2014, , .		3
136	Development of a generic network enabled autonomous vehicle system. , 2014, , .		6
137	High-Order Mismatched Disturbance Compensation for Motion Control Systems Via a Continuous Dynamic Sliding-Mode Approach. <i>IEEE Transactions on Industrial Informatics</i> , 2014, 10, 604-614.	11.3	233
138	Continuous finite-time anti-disturbance control for a class of uncertain nonlinear systems. <i>Transactions of the Institute of Measurement and Control</i> , 2014, 36, 300-311.	1.7	42
139	Truncated unscented particle filter for dealing with non-linear inequality constraints. , 2014, , .		3
140	Disturbance observer based fault diagnosis. , 2014, , .		7
141	Estimation of time to point of closest approach for collision avoidance and separation systems. , 2014, , .		3
142	Failure Boundary Estimation for lateral collision avoidance manoeuvres. , 2014, , .		0
143	Reachability Analysis of Landing Sites for Forced Landing of a UAS. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2014, 73, 635-653.	3.4	30
144	Adaptive fuzzy tracking control for a class of uncertain MIMO nonlinear systems using disturbance observer. <i>Science China Information Sciences</i> , 2014, 57, 1-13.	4.3	785

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145	Path-following control for small fixed-wing unmanned aerial vehicles under wind disturbances. International Journal of Robust and Nonlinear Control, 2013, 23, 1682-1698.	3.7	50
146	Static disturbance-to-output decoupling for nonlinear systems with arbitrary disturbance relative degree. International Journal of Robust and Nonlinear Control, 2013, 23, 562-577.	3.7	41
147	Fast mission reliability prediction for Unmanned Aerial Vehicles. Reliability Engineering and System Safety, 2013, 120, 3-9.	8.9	24
148	Reachability analysis of landing sites for forced landing of a UAS. , 2013, , .		5
149	Hierarchical path planning and flight control of small autonomous helicopters using MPC techniques. , 2013, , .		3
150	Artificial Situation Awareness for Increased Autonomy of Unmanned Aerial Systems in the Terminal Area. Journal of Intelligent and Robotic Systems: Theory and Applications, 2013, 70, 545-555.	3.4	21
151	Continuous nonsingular terminal sliding mode control for systems with mismatched disturbances. Automatica, 2013, 49, 2287-2291.	5.0	503
152	Attitude control of magnetically actuated satellites with an uneven inertia distribution. Aerospace Science and Technology, 2013, 25, 29-39.	4.8	18
153	Chattering-free condition for sliding mode control with unidirectional auxiliary surfaces. Transactions of the Institute of Measurement and Control, 2013, 35, 593-605.	1.7	16
154	Finite-time disturbance rejection control for robotic manipulators based on sliding mode differentiator. , 2013, , .		4
155	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
156	Robust Nonlinear Predictive Controller for Permanent-Magnet Synchronous Motors With an Optimized Cost Function. IEEE Transactions on Industrial Electronics, 2012, 59, 2849-2858.	7.9	153
157	Generalized Extended State Observer Based Control for Systems With Mismatched Uncertainties. IEEE Transactions on Industrial Electronics, 2012, 59, 4792-4802.	7.9	646
158	Nonlinear disturbance observer-based control for multi-input multi-output nonlinear systems subject to mismatching condition. International Journal of Control, 2012, 85, 1071-1082.	1.9	169
159	Building an electric model vehicle and implementing an obstacle avoidance algorithm. , 2012, , .		1
160	Robust nonlinear predictive control of a permanent magnet synchronous motor. , 2012, , .		2
161	Path following for small UAVs in the presence of wind disturbance. , 2012, , .		15
162	Stability Analysis of Constrained Nonlinear Model Predictive Control with Terminal Weighting. Asian Journal of Control, 2012, 14, 1374-1381.	3.0	7

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163	Trajectory generation for autonomous soaring UAS. International Journal of Automation and Computing, 2012, 9, 248-256.	4.5	6
164	Tracking control of small-scale helicopters using explicit nonlinear MPC augmented with disturbance observers. Control Engineering Practice, 2012, 20, 258-268.	5.5	183
165	Robust Cascaded Nonlinear Predictive Control of a Permanent Magnet Synchronous Motor With Antiwindup Compensator. IEEE Transactions on Industrial Electronics, 2012, 59, 3078-3088.	7.9	131
166	Optimization-Based Safety Analysis of Obstacle Avoidance Systems for Unmanned Aerial Vehicles. Journal of Intelligent and Robotic Systems: Theory and Applications, 2012, 65, 219-231.	3.4	19
167	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
168	Non-linear disturbance observer-based robust control for systems with mismatched disturbances/uncertainties. IET Control Theory and Applications, 2011, 5, 2053-2062.	2.1	308
169	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
170	Robust control of nonlinear MAGLEV suspension system with mismatched uncertainties via DOBC approach. ISA Transactions, 2011, 50, 389-396.	5.7	194
171	Piecewise constant model predictive control for autonomous helicopters. Robotics and Autonomous Systems, 2011, 59, 571-579.	5.1	31
172	Calculation of Frequency Response Envelope for Dynamic Systems With Uncertain Parameters. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2011, 133, .	1.6	0
173	Sliding mode control for a class of uncertain nonlinear system based on disturbance observer. International Journal of Adaptive Control and Signal Processing, 2010, 24, 51-64.	4.1	115
174	Stability analysis of classic finite horizon model predictive control. International Journal of Control, Automation and Systems, 2010, 8, 187-197.	2.7	25
175	Disturbance-observer-based robust control for time delay uncertain systems. International Journal of Control, Automation and Systems, 2010, 8, 445-453.	2.7	101
176	Experimental tests of autonomous ground vehicles with preview. International Journal of Automation and Computing, 2010, 7, 342-348.	4.5	5
177	Optimisation based control framework for autonomous vehicles: Algorithm and experiment. , 2010, , .		9
178	Development of an Autonomous control system for a small fixed pitch helicopter. , 2010, , .		1
179	Robust nonlinear generalized predictive control of a permanent magnet synchronous motor with an anti-windup compensator. , 2010, , .		14
180	Disturbance observer based control for nonlinear MAGLEV suspension system. , 2010, , .		7

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181	Automatic differentiation based nonlinear model predictive control of satellites using magneto-torquers. , 2009, , .		5
182	Robust adaptive neural network synchronization controller design for a class of time delay uncertain chaotic systems. Chaos, Solitons and Fractals, 2009, 41, 2716-2724.	5.1	62
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