

Wen-Hua Chen

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.

210
papers

9,857
citations

35
h-index

96
g-index

228
ext. papers

12,819
ext. citations

4.2
avg, IF

7
L-index

#	Paper	IF	Citations
210	Spectral analysis and mapping of blackgrass weed by leveraging machine learning and UAV multispectral imagery. <i>Computers and Electronics in Agriculture</i> , 2022 , 192, 106621	6.5	3
209	Autonomous Source Term Estimation in Unknown Environments: From a Dual Control Concept to UAV Deployment. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 2274-2281	4.2	2
208	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 , 1-1	2.8	4
207	Snow Coverage Mapping by Learning from Sentinel-2 Satellite Multispectral Images via Machine Learning Algorithms. <i>Remote Sensing</i> , 2022 , 14, 782	5	2
206	Model Predictive Control with Preview: Recursive Feasibility and Stability 2022 , 1-1		0
205	Perspective view of autonomous control in unknown environment: Dual control for exploitation and exploration vs reinforcement learning. <i>Neurocomputing</i> , 2022 , 497, 50-63	5.4	0
204	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2021 , 1-1	3.7	1
203	Dual-layer optimization-based control allocation for a fixed-wing UAV. <i>Aerospace Science and Technology</i> , 2021 , 107184	4.9	1
202	Prediction of rear-end conflict frequency using multiple-location traffic parameters. <i>Accident Analysis and Prevention</i> , 2021 , 152, 106007	6.1	11
201	Optimal Path Following for Small Fixed-Wing UAVs Under Wind Disturbances. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 996-1008	4.8	14
200	Aerial Visual Perception in Smart Farming: Field Study of Wheat Yellow Rust Monitoring. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 2242-2249	11.9	44
199	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	6.5	6
198	Finite-time disturbance observer-based modified super-twisting algorithm for systems with mismatched disturbances: Application to fixed-wing UAVs under wind disturbances. <i>International Journal of Robust and Nonlinear Control</i> , 2021 , 31, 7317-7343	3.6	3
197	Ir-UNet: Irregular Segmentation U-Shape Network for Wheat Yellow Rust Detection by UAV Multispectral Imagery. <i>Remote Sensing</i> , 2021 , 13, 3892	5	3
196	Probabilistic faster R-CNN with stochastic region proposing: Towards object detection and recognition in remote sensing imagery. <i>Neurocomputing</i> , 2021 , 459, 290-301	5.4	6
195	Dual Control for Exploitation and Exploration (DCEE) in autonomous search. <i>Automatica</i> , 2021 , 133, 109851	9.7	2
194	Sentinel-2 Satellite Imagery for Urban Land Cover Classification by Optimized Random Forest Classifier. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 543	2.6	19

193	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	1.9	2
192	Prediction of Lane-Changing Maneuvers with Automatic Labeling and Deep Learning. <i>Transportation Research Record</i> , 2020 , 2674, 336-347	1.7	30
191	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	6.2	12
190	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	4.8	14
189	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	6.5	22
188	Visual Tracking With Online Assessment and Improved Sampling Strategy. <i>IEEE Access</i> , 2020 , 8, 36948-36962	3.5	2
187	Output feedback control for mobile robot systems with significant external disturbances. <i>Science China Information Sciences</i> , 2020 , 63, 1	3.4	3
186	Crash Risk Estimation Due to Lane Changing: A Data-Driven Approach Using Naturalistic Data. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 1-10	6.1	8
185	Informative Path Planning for Gas Distribution Mapping in Cluttered Environments 2020 ,		2
184	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	3.4	5
183	Decomposition-based mission planning for fixed-wing UAVs surveying in wind. <i>Journal of Field Robotics</i> , 2020 , 37, 440-465	6.7	7
182	Implicit Personalization in Driving Assistance: State-of-the-Art and Open Issues. <i>IEEE Transactions on Intelligent Vehicles</i> , 2020 , 5, 397-413	5	10
181	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	4.5	2
180	. <i>IEEE Access</i> , 2020 , 8, 185079-185092	3.5	8
179	Disturbance Observer Design for Nonlinear Systems Represented by Input-Output Models. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 1222-1232	8.9	125
178	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2020 , 56, 313-325	3.7	7
177	Nonlinearity Estimator-Based Control of A Class of Uncertain Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 2230-2236	5.9	18
176	Experimental Assessment of Plume Mapping using Point Measurements from Unmanned Vehicles 2019 ,		2

175	Spatio-temporal monitoring of wheat yellow rust using UAV multispectral imagery. <i>Computers and Electronics in Agriculture</i> , 2019 , 167, 105035	6.5	31
174	A machine learning based personalized system for driving state recognition. <i>Transportation Research Part C: Emerging Technologies</i> , 2019 , 105, 241-261	8.4	26
173	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	4.2	14
172	A new integrated collision risk assessment methodology for autonomous vehicles. <i>Accident Analysis and Prevention</i> , 2019 , 127, 61-79	6.1	40
171	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2019 , 55, 3492-3504	3.7	10
170	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	7.3	58
169	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	5	3
168	Big Data and Emerging Transportation Challenges: Findings from the NOESIS project 2019 ,		1
167	Performance Evaluation of Learning-Based Channel Prediction for Communication Relay UAVs in Urban Environments. <i>IFAC-PapersOnLine</i> , 2019 , 52, 292-297	0.7	
166	Negotiation and Decision-Making for a Pedestrian Roadway Crossing: A Literature Review. <i>Sustainability</i> , 2019 , 11, 6713	3.6	11
165	. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 2388-2402	4.8	27
164	. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 3693-3702	11.9	22
163	Source term estimation of a hazardous airborne release using an unmanned aerial vehicle. <i>Journal of Field Robotics</i> , 2019 , 36, 797-817	6.7	20
162	. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2019 , 6, 1220-1229	7	9
161	New Driver Workload Prediction Using Clustering-Aided Approaches. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019 , 49, 64-70	7.3	7
160	Potential Bands of Sentinel-2A Satellite for Classification Problems in Precision Agriculture. <i>International Journal of Automation and Computing</i> , 2019 , 16, 16-26	3.5	20
159	Model-Based Fault Diagnosis System Verification Using Reachability Analysis. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019 , 49, 742-751	7.3	28
158	Predictor-Based Disturbance Rejection Control for Sampled Systems With Input Delay. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 772-780	4.8	23

157	Personalized Driver Workload Inference by Learning From Vehicle Related Measurements. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019 , 49, 159-168	7.3	19
156	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2018 , 54, 1066-1081	3.7	18
155	A Simulation Study of Predicting Real-Time Conflict-Prone Traffic Conditions. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018 , 19, 3196-3207	6.1	19
154	Entrotaxis as a strategy for autonomous search and source reconstruction in turbulent conditions. <i>Information Fusion</i> , 2018 , 42, 179-189	16.7	35
153	Trajectory Planning for Communication Relay Unmanned Aerial Vehicles in Urban Dynamic Environments. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2018 , 89, 7-25	2.9	16
152	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2018 , 54, 2-17	3.7	73
151	Nonlinear composite bilateral control framework for n-DOF teleoperation systems with disturbances. <i>Science China Information Sciences</i> , 2018 , 61, 1	3.4	4
150	Optimal Polygon Decomposition for UAV Survey Coverage Path Planning in Wind. <i>Sensors</i> , 2018 , 18,	3.8	29
149	Communication-Aware Trajectory Planning for Unmanned Aerial Vehicles in Urban Environments. <i>Journal of Guidance, Control, and Dynamics</i> , 2018 , 41, 2271-2282	2.1	6
148	Review of intelligent sprinkler irrigation technologies for remote autonomous system. <i>International Journal of Agricultural and Biological Engineering</i> , 2018 , 11, 23-30	1.9	19
147	Aerodrome situational awareness of unmanned aircraft: an integrated self-learning approach with Bayesian network semantic segmentation. <i>IET Intelligent Transport Systems</i> , 2018 , 12, 868-874	2.4	1
146	Development of nonlinear disturbance observer based control and nonlinear PID: A personal note. <i>Control Theory and Technology</i> , 2018 , 16, 284-300	1	2
145	Bayesian Calibration of AquaCrop Model 2018 ,		1
144	Wheat Drought Assessment by Remote Sensing Imagery Using Unmanned Aerial Vehicle 2018 ,		2
143	Bayesian Multiple Extended Target Tracking Using Labeled Random Finite Sets and Splines. <i>IEEE Transactions on Signal Processing</i> , 2018 , 66, 6076-6091	4.8	10
142	A Simple Optimal Planer Path Following Algorithm for Unmanned Aerial Vehicles* 2018 ,		1
141	Information Based Mobile Sensor Planning for Source Term Estimation of a Non-Continuous Atmospheric Release 2018 ,		1
140	2018 ,		6

139	Wheat yellow rust monitoring by learning from multispectral UAV aerial imagery. <i>Computers and Electronics in Agriculture</i> , 2018 , 155, 157-166	6.5	97
138	Further results on Reduced order disturbance observer for discrete-time linear systems□ <i>Automatica</i> , 2018 , 93, 550-553	5.7	14
137	Disturbance/Uncertainty Estimation and Attenuation Techniques in PMSM Drives□ Survey. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 3273-3285	8.9	263
136	Dynamics Modelling and System Identification of Small Unmanned Helicopters 2017 , 255-282		
135	An Auxiliary Particle Filtering Algorithm With Inequality Constraints. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 4639-4646	5.9	15
134	Landing Site Reachability in a Forced Landing of Unmanned Aircraft in Wind. <i>Journal of Aircraft</i> , 2017 , 54, 1415-1427	1.6	14
133	Disturbance Observer Based Control with Anti-Windup Applied to a Small Fixed Wing UAV for Disturbance Rejection. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2017 , 88, 329-346	2.9	26
132	State dependent multiple model-based particle filtering for ballistic missile tracking in a low-observable environment. <i>Aerospace Science and Technology</i> , 2017 , 67, 144-154	4.9	6
131	Boustrophedon coverage path planning for UAV aerial surveys in wind 2017 ,		23
130	Machine Vision for UAS Ground Operations. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2017 , 88, 527-546	2.9	5
129	A review of source term estimation methods for atmospheric dispersion events using static or mobile sensors. <i>Information Fusion</i> , 2017 , 36, 130-148	16.7	139
128	Constrained anti-disturbance control for a quadrotor based on differential flatness. <i>International Journal of Systems Science</i> , 2017 , 48, 1182-1193	2.3	8
127	New Multiple-Target Tracking Strategy Using Domain Knowledge and Optimization. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017 , 47, 605-616	7.3	20
126	Prediction of air-to-ground communication strength for relay UAV trajectory planner in urban environments 2017 ,		7
125	Adaptive Bayesian Sensor Motion Planning for Hazardous Source Term Reconstruction. <i>IFAC-PapersOnLine</i> , 2017 , 50, 2812-2817	0.7	7
124	Dimension Reduction Aided Hyperspectral Image Classification with a Small-sized Training Dataset: Experimental Comparisons. <i>Sensors</i> , 2017 , 17,	3.8	26
123	Optimal positioning of communication relay unmanned aerial vehicles in urban environments 2016 ,		16
122	Dynamic decision making in lane change: Game theory with receding horizon 2016 ,		19

121	Communication-aware convoy following guidance for UAVs in a complex urban environment 2016,		5
120	Disturbance Rejection Flight Control for Small Fixed-Wing Unmanned Aerial Vehicles. <i>Journal of Guidance, Control, and Dynamics</i> , 2016 , 39, 2810-2819	2.1	31
119	Fault diagnosis for vehicle lateral dynamics with robust threshold 2016,		7
118	Disturbance-Observer-Based Control and Related Methods—An Overview. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 1083-1095	8.9	1184
117	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	1.8	9
116	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	4.9	11
115	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	1.5	13
114	2016,		4
113	Unmanned ground operations using semantic image segmentation through a Bayesian network 2016,		2
112	Situation awareness for UAV operating in terminal areas using bearing-only observations and circuit flight rules 2016,		2
111	. <i>IEEE Transactions on Intelligent Vehicles</i> , 2016 , 1, 230-243	5	61
110	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	10
109	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	29
108	Data-driven situation awareness algorithm for vehicle lane change 2016,		1
107	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	19
106	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016 , 17, 3553-3564	6.1	3
105	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	0.9	6
104	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	2.5	29

103	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2016 , 52, 1408-1420	3.7	11
102	Online optimisation-based backstepping control design with application to quadrotor. <i>IET Control Theory and Applications</i> , 2016 , 10, 1601-1611	2.5	29
101	Image segmentation for automated taxiing of Unmanned Aircraft 2015 ,		5
100	Recursive filter with partial knowledge on inputs and outputs. <i>International Journal of Automation and Computing</i> , 2015 , 12, 35-42	3.5	3
99	Simultaneous state and input estimation with partial information on the inputs. <i>Systems Science and Control Engineering</i> , 2015 , 3, 445-452	2	8
98	. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 5758-5762	8.9	30
97	An explicit MPC for quadrotor trajectory tracking 2015 ,		10
96	Flight Control Design for Small-Scale Helicopter Using Disturbance-Observer-Based Backstepping. <i>Journal of Guidance, Control, and Dynamics</i> , 2015 , 38, 2235-2240	2.1	36
95	High order disturbance observer design for linear and nonlinear systems 2015 ,		8
94	Worst-case analysis of moving obstacle avoidance systems for unmanned vehicles. <i>Robotica</i> , 2015 , 33, 807-827	2.1	7
93	Reachability analysis of landing sites for forced landing of a UAS in wind using trochoidal turn paths 2015 ,		2
92	Real-time motion planning methods for autonomous on-road driving: State-of-the-art and future research directions. <i>Transportation Research Part C: Emerging Technologies</i> , 2015 , 60, 416-442	8.4	349
91	On existence, optimality and asymptotic stability of the Kalman filter with partially observed inputs. <i>Automatica</i> , 2015 , 53, 149-154	5.7	50
90	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	11.9	186
89	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	1.8	35
88	Truncated unscented particle filter for dealing with non-linear inequality constraints 2014 ,		3
87	Disturbance observer based fault diagnosis 2014 ,		6
86	Estimation of time to point of closest approach for collision avoidance and separation systems 2014 ,		1

85	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	2.9	19
84	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	3.4	583
83	Variable sampling-time nonlinear model predictive control of satellites using magneto-torquers. <i>Systems Science and Control Engineering</i> , 2014 , 2, 593-601	2	7
82	A Bayesian framework with an auxiliary particle filter for GMTI-based ground vehicle tracking aided by domain knowledge 2014 ,		2
81	2014 ,		3
80	Static disturbance-to-output decoupling for nonlinear systems with arbitrary disturbance relative degree. <i>International Journal of Robust and Nonlinear Control</i> , 2013 , 23, 562-577	3.6	34
79	Fast mission reliability prediction for Unmanned Aerial Vehicles. <i>Reliability Engineering and System Safety</i> , 2013 , 120, 3-9	6.3	18
78	Reachability analysis of landing sites for forced landing of a UAS 2013 ,		4
77	Hierarchical path planning and flight control of small autonomous helicopters using MPC techniques 2013 ,		3
76	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	2.9	17
75	Continuous nonsingular terminal sliding mode control for systems with mismatched disturbances. <i>Automatica</i> , 2013 , 49, 2287-2291	5.7	371
74	Attitude control of magnetically actuated satellites with an uneven inertia distribution. <i>Aerospace Science and Technology</i> , 2013 , 25, 29-39	4.9	13
73	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	1.8	9
72	Road network based vehicle navigation using an improved IMM particle filter*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 193-198		5
71	Tracking control of small-scale helicopters using explicit nonlinear MPC augmented with disturbance observers. <i>Control Engineering Practice</i> , 2012 , 20, 258-268	3.9	146
70	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	8.9	104
69	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	2.9	13
68	. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 2849-2858	8.9	115

67	Generalized Extended State Observer Based Control for Systems With Mismatched Uncertainties. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 4792-4802	8.9	429
66	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	1.5	119
65	Building an electric model vehicle and implementing an obstacle avoidance algorithm 2012 ,		1
64	Path following for small UAVs in the presence of wind disturbance 2012 ,		10
63	Stability Analysis of Constrained Nonlinear Model Predictive Control with Terminal Weighting. <i>Asian Journal of Control</i> , 2012 , 14, 1374-1381	1.7	7
62	Trajectory generation for autonomous soaring UAS. <i>International Journal of Automation and Computing</i> , 2012 , 9, 248-256	3.5	5
61	Path-following control for small fixed-wing unmanned aerial vehicles under wind disturbances. <i>International Journal of Robust and Nonlinear Control</i> , 2012 , 23, n/a-n/a	3.6	5
60	Trajectory tracking of small helicopters using explicit nonlinear MPC and DOBC. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 1498-1503		8
59	Non-linear disturbance observer-based robust control for systems with mismatched disturbances/uncertainties. <i>IET Control Theory and Applications</i> , 2011 , 5, 2053-2062	2.5	222
58	Optimisation-based verification process of obstacle avoidance systems for unicycle-like mobile robots. <i>International Journal of Automation and Computing</i> , 2011 , 8, 340-347	3.5	2
57	Robust control of nonlinear MAGLEV suspension system with mismatched uncertainties via DOBC approach. <i>ISA Transactions</i> , 2011 , 50, 389-96	5.5	145
56	Piecewise constant model predictive control for autonomous helicopters. <i>Robotics and Autonomous Systems</i> , 2011 , 59, 571-579	3.5	23
55	Optimisation based control framework for autonomous vehicles: Algorithm and experiment 2010 ,		6
54	Robust nonlinear generalized predictive control of a permanent magnet synchronous motor with an anti-windup compensator 2010 ,		12
53	Disturbance observer based control for nonlinear MAGLEV suspension system 2010 ,		5
52	Stability analysis of classic finite horizon model predictive control. <i>International Journal of Control, Automation and Systems</i> , 2010 , 8, 187-197	2.9	21
51	Disturbance-observer-based robust control for time delay uncertain systems. <i>International Journal of Control, Automation and Systems</i> , 2010 , 8, 445-453	2.9	70
50	Experimental tests of autonomous ground vehicles with preview. <i>International Journal of Automation and Computing</i> , 2010 , 7, 342-348	3.5	5

49	Automatic differentiation based nonlinear model predictive control of satellites using magneto-torquers 2009 ,		4
48	Sliding mode control for a class of uncertain nonlinear system based on disturbance observer. <i>International Journal of Adaptive Control and Signal Processing</i> , 2009 , 24, n/a-n/a	2.8	41
47	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	9.3	49
46	Model predictive control of low Earth-orbiting satellites using magnetic actuation. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2008 , 222, 619-631	1	10
45	Model predictive control: Terminal region and terminal weighting matrix. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2008 , 222, 69-79	1	2
44	Regulation of Magnetically Actuated Satellites using Model Predictive Control with Disturbance Modelling 2008 ,		6
43	Model predictive control of nonlinear systems: Stability region and feasible initial control. <i>International Journal of Automation and Computing</i> , 2007 , 4, 195-202	3.5	15
42	Maintaining synchronization by decentralized feedback control in time delay neural networks with parameter uncertainties. <i>International Journal of Neural Systems</i> , 2007 , 17, 115-22	6.2	14
41	Model predictive control for non-linear missiles. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2007 , 221, 1077-1089	1	6
40	Receding Horizon Control for Airport Capacity Management. <i>IEEE Transactions on Control Systems Technology</i> , 2007 , 15, 1131-1136	4.8	4
39	Multiairport Capacity Management: Genetic Algorithm With Receding Horizon. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2007 , 8, 254-263	6.1	31
38	Receding Horizon Control for Free-Flight Path Optimization 2007 , 565-572		
37	Model predictive control of low earth orbiting spacecraft with magneto-torquers 2006 ,		1
36	Control of sampled-data systems with variable sampling rate. <i>International Journal of Systems Science</i> , 2006 , 37, 609-618	2.3	9
35	Constrained predictive pole-placement control with linear models. <i>Automatica</i> , 2006 , 42, 613-618	5.7	9
34	Model Predictive Control of Low Earth Orbiting Spacecraft with Magneto-torquers 2006 ,		12
33	Receding horizon control for aircraft arrival sequencing and scheduling. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2005 , 6, 189-197	6.1	62
32	ACTIVE STEERING OF RAILWAY VEHICLES VIA DOBC TECHNIQUES. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 7-12		

31	GENETIC ALGORITHM BASED ON RECEDING HORIZON CONTROL FOR REAL-TIME IMPLEMENTATIONS IN DYNAMIC ENVIRONMENTS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 156-161		2
30	Genetic algorithm based on receding horizon control for arrival sequencing and scheduling. <i>Engineering Applications of Artificial Intelligence</i> , 2005 , 18, 633-642	7.2	80
29	A modified model predictive control scheme. <i>International Journal of Automation and Computing</i> , 2005 , 2, 101-106	3.5	1
28	Disturbance attenuation and rejection for systems with nonlinearity via DOBC approach. <i>International Journal of Robust and Nonlinear Control</i> , 2005 , 15, 109-125	3.6	478
27	A stable Model Predictive Control algorithm without terminal weighting. <i>Transactions of the Institute of Measurement and Control</i> , 2005 , 27, 119-135	1.8	2
26	Predictive control of general nonlinear systems using approximation. <i>IET Control Theory and Applications</i> , 2004 , 151, 137-144		30
25	Model predictive control of linear systems with nonlinear terminal control. <i>International Journal of Robust and Nonlinear Control</i> , 2004 , 14, 327-339	3.6	2
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