

Ben M Chen

List of Publications by Year in descending order

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323
papers

8,497
citations

76196

40
h-index

74018

75
g-index

333
all docs

333
docs citations

333
times ranked

4543
citing authors

#	ARTICLE	IF	CITATIONS
1	An analysis and design method for linear systems subject to actuator saturation and disturbance. Automatica, 2002, 38, 351-359.	3.0	709
2	SO-Net: Self-Organizing Network for Point Cloud Analysis. , 2018, , .		543
3	Analysis and design for discrete-time linear systems subject to actuator saturation. Systems and Control Letters, 2002, 45, 97-112.	1.3	401
4	Composite nonlinear feedback control for linear systems with input saturation: theory and an application. IEEE Transactions on Automatic Control, 2003, 48, 427-439.	3.6	378
5	Unmanned Rotorcraft Systems. Advances in Industrial Control, 2011, , .	0.4	213
6	Development of a web-based laboratory for control experiments on a coupled tank apparatus. IEEE Transactions on Education, 2001, 44, 76-86.	2.0	180
7	Design and implementation of an autonomous flight control law for a UAV helicopter. Automatica, 2009, 45, 2333-2338.	3.0	134
8	Modeling and Control of the Yaw Channel of a UAV Helicopter. IEEE Transactions on Industrial Electronics, 2008, 55, 3426-3434.	5.2	132
9	Design and implementation of a robust and nonlinear flight control system for an unmanned helicopter. Mechatronics, 2011, 21, 803-820.	2.0	127
10	A Hard-Disk-Drive Servo System Design Using Composite Nonlinear-Feedback Control With Optimal Nonlinear Gain Tuning Methods. IEEE Transactions on Industrial Electronics, 2010, 57, 1735-1745.	5.2	124
11	Robust and H^∞ Control. Communications and Control Engineering, 2000, , .	1.0	122
12	An H^∞ /almost disturbance decoupling robust controller design for a piezoelectric bimorph actuator with hysteresis. IEEE Transactions on Control Systems Technology, 1999, 7, 160-174.	3.2	121
13	Structured H^∞ Command and Control-Loop Design for Unmanned Helicopters. Journal of Guidance, Control, and Dynamics, 2008, 31, 1093-1102.	1.6	118
14	Hybrid three-dimensional formation control for unmanned helicopters. Automatica, 2013, 49, 424-433.	3.0	108
15	A web-based virtual laboratory on a frequency modulation experiment. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2001, 31, 295-303.	3.3	101
16	UAV LiDAR for below-canopy forest surveys. Journal of Unmanned Vehicle Systems, 2013, 01, 61-68.	0.6	98
17	Composite nonlinear control with state and measurement feedback for general multivariable systems with input saturation. Systems and Control Letters, 2005, 54, 455-469.	1.3	97
18	Modeling and compensation of nonlinearities and friction in a micro hard disk drive servo system with nonlinear feedback control. IEEE Transactions on Control Systems Technology, 2005, 13, 708-721.	3.2	97

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19	A Robust Real-Time Embedded Vision System on an Unmanned Rotorcraft for Ground Target Following. IEEE Transactions on Industrial Electronics, 2012, 59, 1038-1049.	5.2	94
20	H-Infinity Static Output-feedback Control for Rotorcraft. Journal of Intelligent and Robotic Systems: Theory and Applications, 2009, 54, 629-646.	2.0	92
21	Improving Transient Performance in Tracking General References Using Composite Nonlinear Feedback Control and Its Application to High-Speed XYZ -Table Positioning Mechanism. IEEE Transactions on Industrial Electronics, 2007, 54, 1039-1051.	5.2	87
22	Linear Systems Theory. , 2004, , .		86
23	Perspective rectification of document images using fuzzy set and morphological operations. Image and Vision Computing, 2005, 23, 541-553.	2.7	86
24	Optimal sensor placement for target localisation and tracking in 2D and 3D. International Journal of Control, 2013, 86, 1687-1704.	1.2	86
25	Discrete-time composite nonlinear feedback control with an application in design of a hard disk drive servo system. IEEE Transactions on Control Systems Technology, 2003, 11, 16-23.	3.2	82
26	An output feedback H_{∞} controller design for linear systems subject to sensor nonlinearities. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2003, 50, 914-921.	0.1	79
27	Design and implementation of a hardware-in-the-loop simulation system for small-scale UAV helicopters. Mechatronics, 2009, 19, 1057-1066.	2.0	78
28	Systematic design methodology and construction of UAV helicopters. Mechatronics, 2008, 18, 545-558.	2.0	68
29	Distributed control of angle-constrained cyclic formations using bearing-only measurements. Systems and Control Letters, 2014, 63, 12-24.	1.3	66
30	Design and implementation of a leader-follower cooperative control system for unmanned helicopters. Journal of Control Theory and Applications, 2010, 8, 61-68.	0.8	62
31	On improvement of transient performance in tracking control for a class of nonlinear systems with input saturation. Systems and Control Letters, 2006, 55, 132-138.	1.3	61
32	MLFcGAN: Multilevel Feature Fusion-Based Conditional GAN for Underwater Image Color Correction. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1488-1492.	1.4	61
33	Design and implementation of a hard disk drive servo system using robust and perfect tracking approach. IEEE Transactions on Control Systems Technology, 2001, 9, 221-233.	3.2	58
34	An overview on development of miniature unmanned rotorcraft systems. Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities, 2010, 5, 1-14.	0.6	57
35	A Robust Real-Time Vision System for Autonomous Cargo Transfer by an Unmanned Helicopter. IEEE Transactions on Industrial Electronics, 2015, 62, 1210-1219.	5.2	57
36	Structural controllability of switched linear systems. Automatica, 2013, 49, 3531-3537.	3.0	56

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37	Accurate 3D Localization for MAV Swarms by UWB and IMU Fusion. , 2018, , .		56
38	A reduced order observer based controller design for H/sub ∞ -optimization. IEEE Transactions on Automatic Control, 1994, 39, 355-360.	3.6	55
39	Self-sensing actuation for nanopositioning and active-mode damping in dual-stage HDDs. IEEE/ASME Transactions on Mechatronics, 2006, 11, 328-338.	3.7	55
40	Development of a Real-time Onboard and Ground Station Software System for a UAV Helicopter. Journal of Aerospace Computing, Information, and Communication, 2007, 4, 933-955.	0.8	52
41	Design and implementation of a dual-stage actuated HDD servo system via composite nonlinear control approach. Mechatronics, 2004, 14, 965-988.	2.0	49
42	Theory of LTR for non-minimum phase systems, recoverable target loops, and recovery in a subspace Part 1. Analysis. International Journal of Control, 1991, 53, 1067-1115.	1.2	47
43	A new stable compensator design for exact and approximate loop transfer recovery. Automatica, 1991, 27, 257-280.	3.0	44
44	Modeling and Control System Design for a UAV Helicopter. , 2006, , .		43
45	Hybrid formation control of the Unmanned Aerial Vehicles. Mechatronics, 2011, 21, 886-898.	2.0	42
46	Graph-theoretic characterisations of structural controllability for multi-agent system with switching topology. International Journal of Control, 2013, 86, 222-231.	1.2	41
47	Google map aided visual navigation for UAVs in GPS-denied environment. , 2015, , .		38
48	Vision-Based Target Three-Dimensional Geolocation Using Unmanned Aerial Vehicles. IEEE Transactions on Industrial Electronics, 2018, 65, 8052-8061.	5.2	38
49	Comprehensive Nonlinear Modeling of an Unmanned-Aerial-Vehicle Helicopter. , 2008, , .		37
50	A robust online path planning approach in cluttered environments for micro rotorcraft drones. Control Theory and Technology, 2016, 14, 83-96.	1.0	37
51	A new approach to the design of mode switching control in hard disk drive servo systems. Control Engineering Practice, 2002, 10, 925-939.	3.2	36
52	Further results on almost disturbance decoupling with global asymptotic stability for nonlinear systems. Automatica, 1999, 35, 709-717.	3.0	35
53	Design and implementation of an unmanned aerial vehicle for autonomous firefighting missions. , 2016, , .		35
54	Deep learning for 2D scan matching and loop closure. , 2017, , .		35

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55	Autonomous Navigation of UAV in Foliage Environment. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 84, 259-276.	2.0	34
56	Construction and parameterization of all static and dynamic H/sub 2/-optimal state feedback solutions, optimal fixed modes and fixed decoupling zeros. IEEE Transactions on Automatic Control, 1993, 38, 248-261.	3.6	33
57	Finite-time stabilisation of cyclic formations using bearing-only measurements. International Journal of Control, 2014, 87, 715-727.	1.2	33
58	Design and Implementation of a Flight Control System for an Unmanned Rotorcraft using <sc>RPT</sc> Control Approach. Asian Journal of Control, 2013, 15, 95-119.	1.9	32
59	IPMGAN: Integrating physical model and generative adversarial network for underwater image enhancement. Neurocomputing, 2021, 453, 538-551.	3.5	32
60	Multivehicle Flocking With Collision Avoidance via Distributed Model Predictive Control. IEEE Transactions on Cybernetics, 2021, 51, 2651-2662.	6.2	32
61	Systematic Design and Implementation of a Micro Unmanned Quadrotor System. Unmanned Systems, 2014, 02, 121-141.	2.7	31
62	Design and Implementation of a Hybrid UAV With Model-Based Flight Capabilities. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1114-1125.	3.7	31
63	H \hat{a} disturbance observer design for high precision track following in hard disk drives. IET Control Theory and Applications, 2009, 3, 1591-1598.	1.2	30
64	On Improving Transient Performance in Tracking Control for a Class of Nonlinear Discrete-Time Systems With Input Saturation. IEEE Transactions on Automatic Control, 2007, 52, 1307-1313.	3.6	29
65	Design and mathematical modeling of a 4-standard-propeller (4SP) quadrotor. , 2012, , .		29
66	Deep Learning Based Automatic Crack Detection and Segmentation for Unmanned Aerial Vehicle Inspections. , 2019, , .		29
67	Improving transient performance in tracking control for linear multivariable discrete-time systems with input saturation. Systems and Control Letters, 2007, 56, 25-33.	1.3	28
68	Vision-aided Estimation of Attitude, Velocity, and Inertial Measurement Bias for UAV Stabilization. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 81, 531-549.	2.0	28
69	Full and reduced-order observer-based controller design for H ₂ -optimization. International Journal of Control, 1993, 58, 803-834.	1.2	27
70	A brief overview on miniature fixed-wing unmanned aerial vehicles. , 2010, , .		27
71	A mono-camera and scanning laser range finder based UAV indoor navigation system. , 2013, , .		27
72	Simultaneous finite- and infinite-zero assignments of linear systems. Automatica, 1995, 31, 643-648.	3.0	26

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73	A Unified Control Scheme for Track Seeking and Following of a Hard Disk Drive Servo System. IEEE Transactions on Control Systems Technology, 2010, 18, 294-306.	3.2	26
74	Systems design and implementation with jerk-optimized trajectory generation for UAV calligraphy. Mechatronics, 2015, 30, 65-75.	2.0	26
75	System integration of a vision-guided UAV for autonomous landing on moving platform. , 2016, , .		25
76	Autonomous reconfigurable hybrid tail-sitter UAV U-Lion. Science China Information Sciences, 2017, 60, 1.	2.7	25
77	Model Predictive Local Motion Planning With Boundary State Constrained Primitives. IEEE Robotics and Automation Letters, 2019, 4, 3577-3584.	3.3	25
78	Explicit expressions for cascade factorization of general nonminimum phase systems. IEEE Transactions on Automatic Control, 1992, 37, 358-363.	3.6	24
79	On the problem of robust and perfect tracking for linear systems with external disturbances. International Journal of Control, 2001, 74, 158-174.	1.2	24
80	On the problem of general structural assignments of linear systems through sensor/actuator selection. Automatica, 2003, 39, 233-241.	3.0	24
81	On selection of nonlinear gain in composite nonlinear feedback control for a class of linear systems. , 2007, , .		24
82	Singular Perturbation Control for Vibration Rejection in HDDs Using the PZT Active Suspension as Fast Subsystem Observer. IEEE Industrial Electronics Magazine, 2007, 54, 1375-1386.	2.3	24
83	Drones for cooperative search and rescue in post-disaster situation. , 2015, , .		24
84	Linear systems toolkit in Matlab: structural decompositions and their applications. Journal of Control Theory and Applications, 2005, 3, 287-294.	0.8	23
85	Adaptive estimation and rejection of unknown sinusoidal disturbances through measurement feedback for a class of non-minimum phase non-linear MIMO systems. International Journal of Adaptive Control and Signal Processing, 2006, 20, 77-97.	2.3	23
86	Exact computation of the infimum in H_∞ -optimization via output feedback. IEEE Transactions on Automatic Control, 1992, 37, 70-78.	3.6	22
87	On properties of the special coordinate basis of linear systems. International Journal of Control, 1998, 71, 981-1003.	1.2	22
88	A partition approach for the restoration of camera images of planar and curled document. Image and Vision Computing, 2006, 24, 837-848.	2.7	22
89	Vision-based formation for UAVs. , 2014, , .		22
90	Towards long-endurance flight: Design and implementation of a variable-pitch gasoline-engine quadrotor. , 2016, , .		22

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91	High-Precision Multi-UAV Teaming for the First Outdoor Night Show in Singapore. Unmanned Systems, 2018, 06, 39-65.	2.7	21
92	A Survey of Motion and Task Planning Techniques for Unmanned Multicopter Systems. Unmanned Systems, 2021, 09, 165-198.	2.7	21
93	FG-Net: A Fast and Accurate Framework for Large-Scale LiDAR Point Cloud Understanding. IEEE Transactions on Cybernetics, 2023, 53, 553-564.	6.2	20
94	A leader-follower formation flight control scheme for UAV helicopters. , 2008, , .		19
95	Development of a vision-based ground target detection and tracking system for a small unmanned helicopter. Science in China Series F: Information Sciences, 2009, 52, 2201-2215.	1.1	19
96	Autonomous navigation of UAV in forest. , 2014, , .		19
97	Necessary and sufficient conditions for a nonminimum phase plant to have a recoverable target loopâ€”A stable compensator design for LTR. Automatica, 1992, 28, 493-507.	3.0	18
98	A nonâ€”recursive method for solving the general discreteâ€”time riccati equations related to the H_2 control problem. International Journal of Robust and Nonlinear Control, 1994, 4, 503-519.	2.1	18
99	Design, fabrication, sensor fusion, and control of a micro Xâ€”Y stage media platform for probe-based storage systems. Mechatronics, 2009, 19, 1158-1168.	2.0	18
100	Development of an Unmanned Coaxial Rotorcraft for the DARPA UAVForge Challenge. Unmanned Systems, 2013, 01, 211-245.	2.7	18
101	A high fidelity simulator for a quadrotor UAV using ROS and Gazebo. , 2015, , .		18
102	Search and Rescue Using Multiple Drones in Post-Disaster Situation. Unmanned Systems, 2016, 04, 83-96.	2.7	18
103	Cooperative control of multiple unmanned aerial systems for heavy duty carrying. Annual Reviews in Control, 2018, 46, 44-57.	4.4	18
104	Thruster Allocation and Mapping of Aerial and Aquatic Modes for a Morphable Multimodal Quadrotor. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2065-2074.	3.7	18
105	The discreteâ€”time H_2 control problem with measurement feedback. International Journal of Robust and Nonlinear Control, 1994, 4, 457-479.	2.1	17
106	Robust and perfect tracking of discrete-time systems. Automatica, 2002, 38, 293-299.	3.0	17
107	Construction, modeling and control of a mini autonomous UAV helicopter. , 2008, , .		17
108	Discrete-time mode switching control with application to a PMSM position servo system. Mechatronics, 2013, 23, 1191-1201.	2.0	17

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109	An efficient UAV navigation solution for confined but partially known indoor environments. , 2014, , .		17
110	A Morphable Aerial-Aquatic Quadrotor with Coupled Symmetric Thrust Vectoring. , 2020, , .		17
111	Necessary and sufficient conditions under which an H ² optimal control problem has a unique solution. International Journal of Control, 1993, 58, 337-348.	1.2	16
112	Mappings of the finite and infinite zero structures and invertibility structures of general linear multivariable systems under the bilinear transformation. Automatica, 1998, 34, 111-124.	3.0	16
113	Enhancement of GPS Signals for Automatic Control of a UAV Helicopter System. , 2007, , .		16
114	Comprehensive Nonlinear Modeling of a Miniature Unmanned Helicopter. Journal of the American Helicopter Society, 2012, 57, 1-13.	0.5	16
115	Guidance, navigation and control of an unmanned helicopter for automatic cargo transportation. , 2014, , .		16
116	Special Issue on Development of Autonomous Unmanned Aerial Vehicles. Mechatronics, 2011, 21, 763-764.	2.0	15
117	Hierarchical hybrid modelling and control of an unmanned helicopter. International Journal of Control, 2014, 87, 1779-1793.	1.2	15
118	Solvability conditions for disturbance decoupling problems with static measurement feedback. International Journal of Control, 1997, 68, 51-60.	1.2	14
119	Market turning points forecasting using wavelet analysis. Physica A: Statistical Mechanics and Its Applications, 2015, 437, 184-197.	1.2	14
120	Development of an Unmanned Helicopter for Vertical Replenishment. Unmanned Systems, 2015, 03, 63-87.	2.7	14
121	Toward Autonomy of Micro Aerial Vehicles in Unknown and Global Positioning System Denied Environments. IEEE Transactions on Industrial Electronics, 2021, 68, 7642-7651.	5.2	14
122	A non-iterative method for computing the infimum in H [∞] -optimization. International Journal of Control, 1992, 56, 1399-1418.	1.2	13
123	Improvement of transient performance in tracking control for discrete-time systems with input saturation and disturbances. IET Control Theory and Applications, 2007, 1, 65-74.	1.2	13
124	A graph-theoretic characterization of structural controllability for multi-agent system with switching topology. , 2009, , .		13
125	Survey on the Development of Aerial-Aquatic Hybrid Vehicles. Unmanned Systems, 2021, 09, 263-282.	2.7	13
126	A microdrive track following controller design using robust and perfect tracking control with nonlinear compensation. Mechatronics, 2005, 15, 933-948.	2.0	12

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127	Improved disturbance rejection with online adaptive pole-zero compensation on a \hat{I} -shaped PZT active suspension. <i>Microsystem Technologies</i> , 2009, 15, 1499-1508.	1.2	12
128	Multi-layer flight control synthesis and analysis of a small-scale UAV helicopter. , 2010, , .		12
129	Platform design and mathematical modeling of an ultralight quadrotor micro aerial vehicle. , 2013, , .		12
130	Design and Implementation of a Thrust-Vectored Unmanned Tail-Sitter with Reconfigurable Wings. <i>Unmanned Systems</i> , 2015, 03, 143-162.	2.7	12
131	Online schedule for autonomy of multiple unmanned aerial vehicles. <i>Science China Information Sciences</i> , 2017, 60, 1.	2.7	12
132	Safe navigation of quadrotors with jerk limited trajectory. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2019, 20, 107-119.	1.5	12
133	Design of a Morphable Multirotor Aerial-Aquatic Vehicle. , 2019, , .		12
134	Smooth quadrotor trajectory generation for tracking a moving target in cluttered environments. <i>Science China Information Sciences</i> , 2021, 64, 1.	2.7	12
135	On the Trends of Autonomous Unmanned Systems Research. <i>Engineering</i> , 2022, 12, 20-23.	3.2	12
136	On blocking zeros and strong stabilizability of linear multivariable systems. <i>Automatica</i> , 1992, 28, 1051-1055.	3.0	11
137	A simple algorithm for the stable/unstable decomposition of a linear discrete-time system. <i>International Journal of Control</i> , 1995, 61, 255-260.	1.2	11
138	Design for general H_{∞} almost disturbance decoupling problem with measurement feedback and internal stability an eigenstructure assignment approach. <i>International Journal of Control</i> , 1998, 71, 653-685.	1.2	11
139	Attitude Control System Design for Unmanned Aerial Vehicles using H_{∞} and Loop-shaping Methods. , 2007, , .		11
140	Nonrepeatable Run-out Rejection Using Online Iterative Control for High-Density Data Storage. <i>IEEE Transactions on Magnetics</i> , 2007, 43, 2029-2037.	1.2	11
141	Design and implementation of a hardware-in-the-loop simulation system for small-scale UAV helicopters. , 2008, , .		11
142	Bisimilarity enforcing supervisory control for deterministic specifications. <i>Automatica</i> , 2014, 50, 287-290.	3.0	11
143	A lightweight autonomous MAV for indoor search and rescue. <i>Asian Journal of Control</i> , 2019, 21, 1732-1744.	1.9	11
144	Autonomous task planning and acting for micro aerial vehicles. , 2019, , .		11

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145	GTO-MPC-Based Target Chasing Using a Quadrotor in Cluttered Environments. IEEE Transactions on Industrial Electronics, 2022, 69, 6026-6035.	5.2	11
146	Closed-form solutions to a class of H^{∞} -optimization problems. International Journal of Control, 1994, 60, 41-70.	1.2	10
147	Solutions to general H^{∞} almost disturbance decoupling problem with measurement feedback and internal stability for discrete-time systems. Automatica, 2000, 36, 1103-1122.	3.0	10
148	Optimal deployment of mobile sensors for target tracking in 2D and 3D spaces. IEEE/CAA Journal of Automatica Sinica, 2014, 1, 24-30.	8.5	10
149	Monocular vision-based autonomous navigation system on a toy quadcopter in unknown environments. , 2015, , .		10
150	Survey of autopilot for multi-rotor unmanned aerial vehicles. , 2016, , .		10
151	WeakLabel3D-Net: A Complete Framework for Real-Scene LiDAR Point Clouds Weakly Supervised Multi-Tasks Understanding. , 2022, , .		10
152	A MATLAB toolkit for composite nonlinear feedback control "improving transient response in tracking control. Journal of Control Theory and Applications, 2010, 8, 271-279.	0.8	9
153	Optimal placement of bearing-only sensors for target localization. , 2012, , .		9
154	A bumpless hybrid supervisory control algorithm for the formation of unmanned helicopters. Mechatronics, 2013, 23, 677-688.	2.0	9
155	Motor-propeller Matching of Aerial Propulsion Systems for Direct Aerial-aquatic Operation. , 2019, , .		9
156	Non-iterative computation of infimum in discrete-time H^{∞} -optimization and solvability conditions for the discrete-time disturbance decoupling problem. International Journal of Control, 1996, 65, 433-454.	1.2	8
157	Solvability conditions and solutions to perfect regulation problem under measurement output feedback. Systems and Control Letters, 2000, 40, 269-277.	1.3	8
158	Minimum-time trajectory planning for helicopter UAVs using computational dynamic optimization. , 2012, , .		8
159	Modeling and forecasting of stock markets under a system adaptation framework. Journal of Systems Science and Complexity, 2012, 25, 641-674.	1.6	8
160	Distributed control of angle-constrained circular formations using bearing-only measurements. , 2013, , .		8
161	Development of an unmanned tail-sitter with reconfigurable wings: U-Lion. , 2014, , .		8
162	Flight Control Law Using Composite Nonlinear Feedback Technique for a Mars Airplane. Journal of Guidance, Control, and Dynamics, 2016, 39, 2199-2204.	1.6	8

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163	Model-based optimal auto-transition and control synthesis for tail-sitter UAV KH-Lion. , 2017, , .		8
164	Complex system and intelligent control: theories and applications. Frontiers of Information Technology and Electronic Engineering, 2019, 20, 1-3.	1.5	8
165	A Memetic Algorithm for Curvature-Constrained Path Planning of Messenger UAV in Air-Ground Coordination. IEEE Transactions on Automation Science and Engineering, 2022, 19, 3735-3749.	3.4	8
166	GPU-Accelerated Incremental Euclidean Distance Transform for Online Motion Planning of Mobile Robots. IEEE Robotics and Automation Letters, 2022, 7, 6894-6901.	3.3	8
167	The discrete-time H_{∞} control problem with strictly proper measurement feedback. IEEE Transactions on Automatic Control, 1994, 39, 1936-1939.	3.6	7
168	Structural decomposition of linear singular systems: the single-input and single-output case. Systems and Control Letters, 2002, 47, 327-334.	1.3	7
169	Explicit Constructions of Global Stabilization Control Laws for a Class of Nonminimum Phase Nonlinear Systems. , 2006, , .		7
170	Explicit construction of H_{∞} control law for a class of nonminimum phase nonlinear systems. Automatica, 2008, 44, 738-744.	3.0	7
171	Minimum time control of helicopter UAVs using computational dynamic optimization. , 2011, , .		7
172	Null controllability of planar bimodal piecewise linear systems. International Journal of Control, 2011, 84, 766-782.	1.2	7
173	Identification of stock market forces in the system adaptation framework. Information Sciences, 2014, 265, 105-122.	4.0	7
174	Systematic Design Methodology and Construction of Micro Aerial Quadrotor Vehicles. , 2015, , 181-206.		7
175	Robust autonomous flight and mission management for MAVs in GPS-denied environments. , 2017, , .		7
176	Optimal Constrained Trajectory Generation for Quadrotors Through Smoothing Splines. , 2018, , .		7
177	Development of an Autonomous Unmanned Surface Vehicle with Object Detection Using Deep Learning. , 2018, , .		7
178	A modular mission management system for micro aerial vehicles. , 2018, , .		7
179	Decentralized MPC-Based Trajectory Generation for Multiple Quadrotors in Cluttered Environments. Research on World Agricultural Economy, 2021, 01, 2150007.	0.8	7
180	System Integration of a Vision-Guided UAV for Autonomous Tracking on Moving Platform in Low Illumination Condition. , 0, , .		7

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181	Solutions to disturbance decoupling problem with constant measurement feedback for linear systems. Automatica, 2000, 36, 1717-1724.	3.0	6
182	Comprehensive Modeling and Control of the Yaw Dynamics of a UAV Helicopter. , 2006, , .		6
183	Development of a comprehensive software system for implementing cooperative control of multiple unmanned aerial vehicles. , 2009, , .		6
184	Flight control design with hierarchical dynamic inversion. , 2010, , .		6
185	Graphic interpretations of structural controllability for switched linear systems. , 2010, , .		6
186	Wide area surveillance of urban environments using multiple Mini-VTOL UAVs. , 2015, , .		6
187	Vision-aided tracking of a moving ground vehicle with a hybrid UAV. , 2017, , .		6
188	Full envelope dynamics modeling and simulation for tail-sitter hybrid UAVs. , 2017, , .		6
189	A Lightweight Waterproof Casing for an Aquatic UAV using Rapid Prototyping. , 2020, , .		6
190	Closed-Loop Transfer Recovery with Observer-Based Controllers, Part 1: Analysis. Control and Dynamic Systems, 1992, , 247-293.	0.1	5
191	Symbolic realization of asymptotic time-scale and eigenstructure assignment design method in multivariable control. International Journal of Control, 2006, 79, 1471-1484.	1.2	5
192	Midfrequency Runout Compensation in Hard Disk Drives Via a Time-Varying Group Filtering Scheme. IEEE Transactions on Magnetics, 2008, 44, 4769-4779.	1.2	5
193	Autonomous Mini-UAV for indoor flight with embedded on-board vision processing as navigation system. , 2010, , .		5
194	GPS signal enhancement and attitude determination for a mini and low-cost unmanned aerial vehicle. Transactions of the Institute of Measurement and Control, 2011, 33, 665-682.	1.1	5
195	A customized fastslam algorithm using scanning laser range finder in structured indoor environments. , 2013, , .		5
196	Explicit model identification and control of a micro aerial vehicle. , 2014, , .		5
197	Nonlinear Flight Control Design for Maneuvering Flight of Quadrotors in High Speed and Large Acceleration. , 2018, , .		5
198	Systematic Modeling of Rotor-Driving Dynamics for Small Unmanned Aerial Vehicles. Unmanned Systems, 2018, 06, 81-93.	2.7	5

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199	Explicit solvability conditions for the general discrete-time H infinity almost disturbance decoupling problem with internal stability. International Journal of Systems Science, 1999, 30, 105-115.	3.7	4
200	Optimal track following control for hard disk drives. , 2000, , .		4
201	COMPOSITE NONLINEAR FEEDBACK CONTROL FOR A CLASS OF NONLINEAR SYSTEMS WITH INPUT SATURATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 622-627.	0.4	4
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