

Huang Sunan

List of Publications by Year in descending order

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51
papers

1,474
citations

361296

20
h-index

360920

35
g-index

51
all docs

51
docs citations

51
times ranked

1183
citing authors

#	ARTICLE	IF	CITATIONS
1	Semi-Definite Relaxation-Based ADMM for Cooperative Planning and Control of Connected Autonomous Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 9240-9251.	4.7	16
2	Multi-Camera Networks for Coverage Control of Drones. Drones, 2022, 6, 67.	2.7	5
3	An Intelligent Auto-Organizing Aerial Robotic Sensor Network System for Urban Surveillance. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 102, 1.	2.0	9
4	3D Multi-Camera Coverage Control of Unmanned Aerial Multirotors. , 2021, , .		3
5	Vision-Based Sense and Avoid with Monocular Vision and Real-Time Object Detection for UAVs. , 2021, , .		6
6	Trajectory Generation by Chance-Constrained Nonlinear MPC With Probabilistic Prediction. IEEE Transactions on Cybernetics, 2021, 51, 3616-3629.	6.2	21
7	Three Dimensional Collision Avoidance for Multi Unmanned Aerial Vehicles Using Velocity Obstacle. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 97, 227-248.	2.0	33
8	Improved Multi-Camera Coverage Control of Unmanned Multirotors. , 2020, , .		5
9	Model-based fault accommodation control of multiagent systems. Advanced Control for Applications, 2020, 2, e25.	0.8	1
10	Distributed UAV Loss Detection and Auto-replacement Protocol with Guaranteed Properties. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 93, 303-316.	2.0	17
11	Intelligent Friction Compensation: A Review. IEEE/ASME Transactions on Mechatronics, 2019, 24, 1763-1774.	3.7	56
12	Collision avoidance of multi unmanned aerial vehicles: A review. Annual Reviews in Control, 2019, 48, 147-164.	4.4	120
13	HLT*: Real-time and Any-angle Path Planning in 3D Environment. , 2019, , .		5
14	Self-organizing Formation Control of Multiple Unmanned Aerial Vehicles. , 2019, , .		0
15	Integrated Planning and Control for Collision-free Trajectory Generation in 3D Environment with Obstacles. , 2019, , .		8
16	Distributed Cooperative Avoidance Control for Multi-Unmanned Aerial Vehicles. Actuators, 2019, 8, 1.	1.2	31
17	Coverage Control of Multiple Unmanned Aerial Vehicles: A Short Review. Unmanned Systems, 2018, 06, 131-144.	2.7	27
18	Collision Avoidance Design on Unmanned Aerial Vehicle in 3D Space. Unmanned Systems, 2018, 06, 277-295.	2.7	18

#	ARTICLE	IF	CITATIONS
19	Three-dimensional Collision Avoidance Design on Unmanned Aerial Vehicle. , 2018, , .		3
20	Agent model for multi-UAV control via protocol designs. International Journal of Intelligent Computing and Cybernetics, 2017, 10, 412-429.	1.6	14
21	Distributed cooperative collision avoidance control and implementation for multi-unmanned aerial vehicles. , 2017, , .		3
22	Precision Control of Piezoelectric Ultrasonic Motor for Myringotomy With Tube Insertion. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	0.9	28
23	Automated Fault Diagnosis and Accommodation Control for Mechanical Systems. IEEE/ASME Transactions on Mechatronics, 2015, 20, 155-165.	3.7	28
24	Development for precise positioning of air bearing stages. , 2012, , .		2
25	Robust control for optimal operation of a reproductive assisting platform. , 2012, , .		0
26	Fault Diagnosis and Fault-Tolerant Control in Linear Drives Using the Kalman Filter. IEEE Transactions on Industrial Electronics, 2012, 59, 4285-4292.	5.2	119
27	Fault Simulator Based on a Hardware-in-the-Loop Technique. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 1135-1139.	3.3	4
28	Identification of Coulomb Friction-Impeded Systems With a Triple-Relay Feedback Apparatus. IEEE Transactions on Control Systems Technology, 2012, 20, 726-737.	3.2	20
29	Intelligent Friction Modeling and Compensation Using Neural Network Approximations. IEEE Transactions on Industrial Electronics, 2012, 59, 3342-3349.	5.2	81
30	Development of a Spherical Air Bearing Positioning System. IEEE Transactions on Industrial Electronics, 2012, 59, 3501-3509.	5.2	18
31	Adaptive Friction Compensation With a Dynamical Friction Model. IEEE/ASME Transactions on Mechatronics, 2011, 16, 133-140.	3.7	95
32	Identification and control of linear dynamics with input Preisach hysteresis. , 2010, , .		4
33	A Family of Fuzzy Learning Algorithms for Robust Principal Component Analysis Neural Networks. IEEE Transactions on Fuzzy Systems, 2010, 18, 217-226.	6.5	33
34	Hardware-in-the-Loop Simulation for the Development of an Experimental Linear Drive. IEEE Transactions on Industrial Electronics, 2010, 57, 1167-1174.	5.2	26
35	Modeling and Compensation of Ripples and Friction in Permanent-Magnet Linear Motor Using a Hysteretic Relay. IEEE/ASME Transactions on Mechatronics, 2010, 15, 586-594.	3.7	92
36	Problem and solution of designing an air bearing system. , 2010, , .		5

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37	Predictive Ratio Control for Interacting Processes. Industrial & Engineering Chemistry Research, 2009, 48, 10515-10521.	1.8	2
38	Friction Modeling and Compensation of Servomechanical Systems With Dual-Relay Feedback Approach. IEEE Transactions on Control Systems Technology, 2009, 17, 1295-1305.	3.2	30
39	Limit cycles induced in type-1 linear systems with PID-type of relay feedback. International Journal of Systems Science, 2009, 40, 1229-1239.	3.7	11
40	Vision-Servo System for Automated Cell Injection. IEEE Transactions on Industrial Electronics, 2009, 56, 231-238.	5.2	112
41	Adaptive Sliding-Mode Control of Piezoelectric Actuators. IEEE Transactions on Industrial Electronics, 2009, 56, 3514-3522.	5.2	65
42	Fault Detection and Diagnosis Based on Modeling and Estimation Methods. IEEE Transactions on Neural Networks, 2009, 20, 872-881.	4.8	57
43	Stability and Chaos of a Class of Learning Algorithms for ICA Neural Networks. Neural Processing Letters, 2008, 28, 35-47.	2.0	12
44	Vision-assisted thermal monitoring system for CNC machine surveillance. , 2008, , .		1
45	Noise removal in Vold-Kalman order tracking based on independent component analysis. , 2008, , .		0
46	Relay-based force ripple and friction modeling for the permanent magnet linear motor. , 2008, , .		1
47	Improvement of tracking performance of servomechanical system by an accurate four-parameter friction modelling and compensation. , 2007, , .		2
48	Adaptive Control of Mechanical Systems Using Neural Networks. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2007, 37, 897-903.	3.3	17
49	Design, Modeling, and Control of Piezoelectric Actuators for Intracytoplasmic Sperm Injection. IEEE Transactions on Control Systems Technology, 2007, 15, 879-890.	3.2	65
50	An Improvement on Stable Adaptive Control for a Class of Nonlinear Systems. IEEE Transactions on Automatic Control, 2004, 49, 1398-1403.	3.6	29
51	Decentralized control design for large-scale systems with strong interconnections using neural networks. IEEE Transactions on Automatic Control, 2003, 48, 805-810.	3.6	114