Sung Kyung Hong

List of Publications by Year
in descending order

31	527	759233 12	642732 23
papers	citations	h-index	g-index

32	32	32	429
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quadcopter Robust Adaptive Second Order Sliding Mode Control Based on PID Sliding Surface. IEEE Access, 2018, 6, 66850-66860.	4.2	80
2	Trajectory-Switching Algorithm for a MEMS Gyroscope. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 2561-2569.	4.7	67
3	Adaptive Sliding Mode Control for Attitude and Altitude System of a Quadcopter UAV via Neural Network. IEEE Access, 2021, 9, 40076-40085.	4.2	40
4	Autonomous Quadcopter Precision Landing Onto a Heaving Platform: New Method and Experiment. IEEE Access, 2020, 8, 167192-167202.	4.2	39
5	Actuator Fault Detection and Fault-Tolerant Control for Hexacopter. Sensors, 2019, 19, 4721.	3.8	35
6	Robust adaptive formation control of quadcopters based on a leaderâ€“follower approach. International Journal of Advanced Robotic Systems, 2019, 16, 172988141986273.	2.1	32
7	Simple nonlinear control of quadcopter for collision avoidance based on geometric approach in static environment. International Journal of Advanced Robotic Systems, 2018, 15, 172988141876757.	2.1	24
8	Minimal-Drift Heading Measurement using a MEMS Gyro for Indoor Mobile Robots. Sensors, 2008, 8, 7287-7299.	3.8	22
9	Adaptive altitude flight control of quadcopter under ground effect and time-varying load: theory and experiments. JVC/Journal of Vibration and Control, 2023, 29, 571-581.	2.6	21
10	Robust Dynamic Sliding Mode Control-Based PIDâ€“Super Twisting Algorithm and Disturbance Observer for Second-Order Nonlinear Systems: Application to UAVs. Electronics (Switzerland), 2019, 8, 760.	3.1	20
11	Nonlinear Control for Autonomous Trajectory Tracking while Considering Collision Avoidance of UAVs Based on Geometric Relations. Energies, 2019, 12, 1551.	3.1	20
12	Finite-Time Attitude Fault Tolerant Control of Quadcopter System via Neural Networks. Mathematics, 2020, 8, 1541.	2.2	20
13	Robust Fault Estimation Using the Intermediate Observer: Application to the Quadcopter. Sensors, 2020, 20, 4917.	3.8	12
14	Finite-Time Stability of MIMO Nonlinear Systems Based on Robust Adaptive Sliding Control: Methodology and Application to Stabilize Chaotic Motions. IEEE Access, 2021, 9, 21759-21768.	4.2	12
15	A Modified Grey Wolf Optimizer for Optimum Parameters of Multilayer Type-2 Asymmetric Fuzzy Controller. IEEE Access, 2020, 8, 121611-121629.	4.2	11
16	Synthesized Landing Strategy for Quadcopter to Land Precisely on a Vertically Moving Apron. Mathematics, 2022, 10, 1328.	2.2	11
17	Multilayer Interval Type-2 Fuzzy Controller Design for Quadcopter Unmanned Aerial Vehicles Using Jaya Algorithm. IEEE Access, 2020, 8, 181246-181257.	4.2	9
18	An Extended Multi-Surface Sliding Control for Matched/Mismatched Uncertain Nonlinear Systems Through a Lumped Disturbance Estimator. IEEE Access, 2020, 8, 91468-91475.	4.2	9

#	Article	IF	Citations
19	Fault-Tolerant Control for Hexacopter UAV Using Adaptive Algorithm with Severe Faults. Aerospace, 2022, 9, 304.	2.2	9
20	Dynamic Event-Triggered Time-Varying Formation Control of Second-Order Dynamic Agents: Application to Multiple Quadcopters Systems. Applied Sciences (Switzerland), 2020, 10, 2814.	2.5	7
21	Optimum Design of Function-Link Type-2 Fuzzy Asymmetric CMAC Based on Self-Organizing Algorithm and Modified Jaya Algorithm. IEEE Access, 2020, 8, 202365-202378.	4.2	5
22	Minimal-drift heading measurement using a MEMS gyro for mobile robots: Fused with odometry. International Journal of Control, Automation and Systems, 2012, 10, 1000-1004.	2.7	4
23	Velocity-Aided Attitude Estimation for Helicopter Aircraft Using Microelectromechanical System Inertial-Measurement Units. Sensors, 2016, 16, 2102.	3.8	4
24	An LMI-Based Fuzzy State Feedback Control with Multi-Objectives. Journal of Mechanical Science and Technology, 2003, 17, 105-113.	0.4	3
25	Clap-and-Fling Mechanism in Non-Zero Inflow of a Tailless Two-Winged Flapping-Wing Micro Air Vehicle. Aerospace, 2022, 9, 108.	2.2	3
26	LMI-based robust flight control of an aircraft subject to CG variation. International Journal of Systems Science, 2010, 41, 585-592.	5.5	2
27	Numerical study on the hydrodynamic control derivatives of a high-speed underwater vehicle with X-stern configuration. Journal of Mechanical Science and Technology, 2011, 25, 3075-3082.	1.5	2
28	Simulation based design for position estimation of small robotic fish. , 2013, , .		2
29	Quadrotor Robust Optimal Attitude Tracking Control subjected to Model Uncertainties and External Disturbances. , 2019, , .		2
30	Control system design for the mock ventricle with aortic and mitral valve resistance uncertainty. Journal of Mechanical Science and Technology, 2014, 28, 3769-3776.	1.5	0
31	Nonlinear Disturbance-Estimator-based Control for nth-order System with Matched/Mismatched Uncertainties. , 2021, , .		0