Yoonsoo Kim

List of Publications by Year
in descending order

44	673	759233	580821
papers	citations	12	25
		h-index	g-index

44	44	44	551
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	System identification of cropped delta UAVs from flight test methods using particle Swarm-Optimisation-based estimation. Aeronautical Journal, 2023, 127, 76-96.	1.6	2
2	On the Robust Network Design for MUM-T. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 2093-2102.	4.7	1
3	Circumnavigation of Multiple Drones Under Intermittent Observation: An Integration of Guidance, Control, and Estimation. International Journal of Aeronautical and Space Sciences, 2022, 23, 423-433.	2.0	4
4	Reduced-order multisensory fusion estimation with application to object tracking. IET Signal Processing, 2022, 16, 463-478.	1.5	3
5	A nonlinear hybrid controller for swinging-up and stabilizing the rotary inverted pendulum. Nonlinear Dynamics, 2021, 104, 1117-1137.	5.2	20
6	Merging relative sensing networks: A stability margin perspective. Journal of the Franklin Institute, 2021, 358, 3127-3149.	3.4	3
7	Zonotopic Kalman filtering for stability augmentation and flight envelope estimation. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2021, 235, 2288-2298.	1.3	0
8	Sensitivity-based link addition for robust linear dynamical networks. Journal of the Franklin Institute, 2021, 358, 3964-3979.	3.4	1
9	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
10	Development of Multi-Quadrotor Simulator Based on Real-Time Hypervisor Systems. Drones, 2021, 5, 59.	4.9	0
11	Stability margin of undirected homogeneous relative sensing networks: A geometric perspective. Systems and Control Letters, 2021, 156, 105027.	2.3	1
12	Zonotopic Reachability Analysis of Multirotor Aircraft. , 2021, , .		0
13	Flight envelope estimation for helicopters under icing conditions via the zonotopic reachability analysis. Aerospace Science and Technology, 2020, 102, 105859.	4.8	10
14	Disturbance Observer-Based Continuous Finite-Time Sliding Mode Control against Matched and Mismatched Disturbances. Complexity, 2020, 2020, 1-14.	1.6	7
15	Closed-Form Distance Estimators under Kalman Filtering Framework with Application to Object Tracking. Mathematical Problems in Engineering, 2020, 2020, 1-16.	1.1	0
16	Improved Bounds on the Stability Margin of Dynamical Networks. , 2020, , .		0
17	Partitioning of relative sensing networks: A stability margin perspective. Automatica, 2019, 106, 294-300.	5.0	10
18	Kalman-filter based online system identification of fixed-wing aircraft in upset condition. Aerospace Science and Technology, 2019, 89, 307-317.	4.8	31

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19	Linear Exponential Quadratic Control for Mean Field Stochastic Systems. IEEE Transactions on Automatic Control, 2019, 64, 5094-5100.	5.7	18
20	Merging Undirected Networks: A Stability Margin Perspective. , 2019, , .		2
21	Fuzzy searching and routing in unstructured mobile peer-to-peer networks. Cluster Computing, 2018, 21, 363-375.	5.0	1
22	Receding Horizon Least Squares Estimator with Application to Estimation of Process and Measurement Noise Covariances. Mathematical Problems in Engineering, 2018, 2018, 1-15.	1.1	1
23	Decentralized Formation Flight via PID and Integral Sliding Mode Control. IFAC-PapersOnLine, 2018, 51, 13-15.	0.9	10
24	Online system identification of mini cropped delta UAVs using flight test methods. Aerospace Science and Technology, 2018, 80, 337-353.	4.8	19
25	Decentralized formation flight via PID and integral sliding mode control. Aerospace Science and Technology, 2018, 81, 322-332.	4.8	43
26	On the Stability Margin of Networked Dynamical Systems. IEEE Transactions on Automatic Control, 2017, 62, 5451-5456.	5.7	18
27	Decentrailized formation flight control of quadcopters using robust feedback linearization. Journal of the Franklin Institute, 2017, 354, 852-871.	3.4	38
28	Design and implementation of autonomous wireless charging station for rotary-wing UAVs. Aerospace Science and Technology, 2016, 54, 253-266.	4.8	87
29	Comment on â€œN-Impulse Formation Flying Feedback Control Using Nonsingular Element Descriptionâ€. Journal of Guidance, Control, and Dynamics, 2016, 39, 194-195.	2.8	0
30	Collision-free second-order vehicle formation control under time-varying network topology. Journal of the Franklin Institute, 2015, 352, 4595-4609.	3.4	11
31	Decentralized formation control of quadcopters using feedback linearization. , 2015, , .		7
32	Efficient identification of link importance in dynamic networks. Journal of the Franklin Institute, 2015, 352, 3716-3729.	3.4	8
33	Leader-following formation control of quadcopters with heading synchronization. Aerospace Science and Technology, 2015, 47, 68-74.	4.8	82
34	Aerodynamic pitch control design for reversal of missileâ€™s flight direction. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2014, 228, 1519-1527.	1.3	3
35	Attitude synchronization of multiple spacecraft with cone avoidance constraints. Systems and Control Letters, 2014, 69, 73-79.	2.3	7
36	Collision-free vehicle formation control using graph Laplacian and edge-tension function. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1808-1812.	0.4	5

#	Article	IF	Citations
37	Static output feedback stabilization of interconnected systems. Systems and Control Letters, 2012, 61, 381-386.	2.3	7
38	Robust target tracking using distributed unmanned aerial vehicle networks. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2010, 224, 417-426.	1.3	2
39	How tight is sphere-packed formation flying?. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2010, 224, 427-435.	1.3	0
40	Bisection Algorithm of Increasing Algebraic Connectivity by Adding an Edge. IEEE Transactions on Automatic Control, 2010, 55, 170-174.	5.7	48
41	On the Convex Parameterization of Constrained Spacecraft Reorientation. IEEE Transactions on Aerospace and Electronic Systems, 2010, 46, 1097-1109.	4.7	60
42	Distributed Constrained Attitude and Position Control Using Graph Laplacians. , 2010, , .		6
43	Bisection algorithm of increasing algebraic connectivity by adding an edge. , 2009, , .		1
44	Quadratically Constrained Attitude Control via Semidefinite Programming. IEEE Transactions on Automatic Control, 2004, 49, 731-735.	5.7	85