

# Yoonsoo Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

673  
citations

759233

12  
h-index

580821

25  
g-index

44  
all docs

44  
docs citations

44  
times ranked

551  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and implementation of autonomous wireless charging station for rotary-wing UAVs. Aerospace Science and Technology, 2016, 54, 253-266.	4.8	87
2	Quadratically Constrained Attitude Control via Semidefinite Programming. IEEE Transactions on Automatic Control, 2004, 49, 731-735.	5.7	85
3	Leader-following formation control of quadcopters with heading synchronization. Aerospace Science and Technology, 2015, 47, 68-74.	4.8	82
4	On the Convex Parameterization of Constrained Spacecraft Reorientation. IEEE Transactions on Aerospace and Electronic Systems, 2010, 46, 1097-1109.	4.7	60
5	Bisection Algorithm of Increasing Algebraic Connectivity by Adding an Edge. IEEE Transactions on Automatic Control, 2010, 55, 170-174.	5.7	48
6	Decentralized formation flight via PID and integral sliding mode control. Aerospace Science and Technology, 2018, 81, 322-332.	4.8	43
7	Decentralized formation flight control of quadcopters using robust feedback linearization. Journal of the Franklin Institute, 2017, 354, 852-871.	3.4	38
8	Kalman-filter based online system identification of fixed-wing aircraft in upset condition. Aerospace Science and Technology, 2019, 89, 307-317.	4.8	31
9	A nonlinear hybrid controller for swinging-up and stabilizing the rotary inverted pendulum. Nonlinear Dynamics, 2021, 104, 1117-1137.	5.2	20
10	Online system identification of mini cropped delta UAVs using flight test methods. Aerospace Science and Technology, 2018, 80, 337-353.	4.8	19
11	On the Stability Margin of Networked Dynamical Systems. IEEE Transactions on Automatic Control, 2017, 62, 5451-5456.	5.7	18
12	Linear Exponential Quadratic Control for Mean Field Stochastic Systems. IEEE Transactions on Automatic Control, 2019, 64, 5094-5100.	5.7	18
13	Collision-free second-order vehicle formation control under time-varying network topology. Journal of the Franklin Institute, 2015, 352, 4595-4609.	3.4	11
14	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
15	Decentralized Formation Flight via PID and Integral Sliding Mode Control. IFAC-PapersOnLine, 2018, 51, 13-15.	0.9	10
16	Partitioning of relative sensing networks: A stability margin perspective. Automatica, 2019, 106, 294-300.	5.0	10
17	Flight envelope estimation for helicopters under icing conditions via the zonotopic reachability analysis. Aerospace Science and Technology, 2020, 102, 105859.	4.8	10
18	Efficient identification of link importance in dynamic networks. Journal of the Franklin Institute, 2015, 352, 3716-3729.	3.4	8

#	ARTICLE	IF	CITATIONS
19	Static output feedback stabilization of interconnected systems. <i>Systems and Control Letters</i> , 2012, 61, 381-386.	2.3	7
20	Attitude synchronization of multiple spacecraft with cone avoidance constraints. <i>Systems and Control Letters</i> , 2014, 69, 73-79.	2.3	7
21	Decentralized formation control of quadcopters using feedback linearization. , 2015, , .		7
22	Disturbance Observer-Based Continuous Finite-Time Sliding Mode Control against Matched and Mismatched Disturbances. <i>Complexity</i> , 2020, 2020, 1-14.	1.6	7
23	Distributed Constrained Attitude and Position Control Using Graph Laplacians. , 2010, , .		6
24	Collision-free vehicle formation control using graph Laplacian and edge-tension function. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 1808-1812.	0.4	5
25	Circumnavigation of Multiple Drones Under Intermittent Observation: An Integration of Guidance, Control, and Estimation. <i>International Journal of Aeronautical and Space Sciences</i> , 2022, 23, 423-433.	2.0	4
26	Aerodynamic pitch control design for reversal of missile's flight direction. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2014, 228, 1519-1527.	1.3	3
27	Merging relative sensing networks: A stability margin perspective. <i>Journal of the Franklin Institute</i> , 2021, 358, 3127-3149.	3.4	3
28	Reduced-order multisensory fusion estimation with application to object tracking. <i>IET Signal Processing</i> , 2022, 16, 463-478.	1.5	3
29	Robust target tracking using distributed unmanned aerial vehicle networks. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2010, 224, 417-426.	1.3	2
30	Merging Undirected Networks: A Stability Margin Perspective. , 2019, , .		2
31	System identification of cropped delta UAVs from flight test methods using particle Swarm-Optimisation-based estimation. <i>Aeronautical Journal</i> , 2023, 127, 76-96.	1.6	2
32	Bisection algorithm of increasing algebraic connectivity by adding an edge. , 2009, , .		1
33	Fuzzy searching and routing in unstructured mobile peer-to-peer networks. <i>Cluster Computing</i> , 2018, 21, 363-375.	5.0	1
34	Receding Horizon Least Squares Estimator with Application to Estimation of Process and Measurement Noise Covariances. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-15.	1.1	1
35	Sensitivity-based link addition for robust linear dynamical networks. <i>Journal of the Franklin Institute</i> , 2021, 358, 3964-3979.	3.4	1
36	Stability margin of undirected homogeneous relative sensing networks: A geometric perspective. <i>Systems and Control Letters</i> , 2021, 156, 105027.	2.3	1

#	ARTICLE	IF	CITATIONS
37	On the Robust Network Design for MUM-T. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 2093-2102.	4.7	1
38	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
39	Comment on "N-Impulse Formation Flying Feedback Control Using Nonsingular Element Description": Journal of Guidance, Control, and Dynamics, 2016, 39, 194-195.	2.8	0
40	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
41	Development of Multi-Quadrotor Simulator Based on Real-Time Hypervisor Systems. Drones, 2021, 5, 59.	4.9	0
42	Closed-Form Distance Estimators under Kalman Filtering Framework with Application to Object Tracking. Mathematical Problems in Engineering, 2020, 2020, 1-16.	1.1	0
43	Improved Bounds on the Stability Margin of Dynamical Networks. , 2020, , .		0
44	Zonotopic Reachability Analysis of Multirotor Aircraft. , 2021, , .		0