

# Hyondong Oh

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

1,547  
citations

361296

20  
h-index

315616

38  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1154  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of source term estimation methods for atmospheric dispersion events using static or mobile sensors. <i>Information Fusion</i> , 2017, 36, 130-148.	11.7	232
2	Bio-inspired self-organising multi-robot pattern formation: A review. <i>Robotics and Autonomous Systems</i> , 2017, 91, 83-100.	3.0	142
3	Nonlinear Model Predictive Coordinated Standoff Tracking of a Moving Ground Vehicle. <i>Journal of Guidance, Control, and Dynamics</i> , 2013, 36, 557-566.	1.6	105
4	Coordinated standoff tracking of moving target groups using multiple UAVs. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2015, 51, 1501-1514.	2.6	95
5	Coordinated trajectory planning for efficient communication relay using multiple UAVs. <i>Control Engineering Practice</i> , 2014, 29, 42-49.	3.2	72
6	Exploration in deep reinforcement learning: A survey. <i>Information Fusion</i> , 2022, 85, 1-22.	11.7	66
7	Entrotaxis as a strategy for autonomous search and source reconstruction in turbulent conditions. <i>Information Fusion</i> , 2018, 42, 179-189.	11.7	65
8	Rendezvous and Standoff Target Tracking Guidance Using Differential Geometry. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2013, 69, 389-405.	2.0	58
9	Decentralised Standoff Tracking of Moving Targets Using Adaptive Sliding Mode Control for UAVs. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2014, 76, 169-183.	2.0	49
10	Persistent standoff tracking guidance using constrained particle filter for multiple UAVs. <i>Aerospace Science and Technology</i> , 2019, 84, 257-264.	2.5	40
11	Coordinated road-network search route planning by a team of UAVs. <i>International Journal of Systems Science</i> , 2014, 45, 825-840.	3.7	36
12	Cooperative information-driven source search and estimation for multiple agents. <i>Information Fusion</i> , 2020, 54, 72-84.	11.7	36
13	Indoor UAV Control Using Multi-Camera Visual Feedback. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2011, 61, 57-84.	2.0	34
14	Multiple Model Ballistic Missile Tracking With State-Dependent Transitions and Gaussian Particle Filtering. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2018, 54, 1066-1081.	2.6	30
15	New Multiple-Target Tracking Strategy Using Domain Knowledge and Optimization. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017, 47, 605-616.	5.9	29
16	Autonomous UAV Trail Navigation with Obstacle Avoidance Using Deep Neural Networks. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2020, 100, 1195-1211.	2.0	29
17	Trajectory Planning for Communication Relay Unmanned Aerial Vehicles in Urban Dynamic Environments. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2018, 89, 7-25.	2.0	27
18	Behaviour recognition of ground vehicle using airborne monitoring of unmanned aerial vehicles. <i>International Journal of Systems Science</i> , 2014, 45, 2499-2514.	3.7	25

#	ARTICLE	IF	CITATIONS
19	Optimal positioning of communication relay unmanned aerial vehicles in urban environments. , 2016, , .		25
20	Vision-Based Obstacle Avoidance Strategies for MAVs Using Optical Flows in 3-D Textured Environments. Sensors, 2019, 19, 2523.	2.1	24
21	A Hybrid Approach of Learning and Model-Based Channel Prediction for Communication Relay UAVs in Dynamic Urban Environments. IEEE Robotics and Automation Letters, 2019, 4, 2370-2377.	3.3	20
22	A nonlinear hybrid controller for swinging-up and stabilizing the rotary inverted pendulum. Nonlinear Dynamics, 2021, 104, 1117-1137.	2.7	20
23	Continuous Nonsingular Terminal Sliding-Mode Control With Integral-Type Sliding Surface for Disturbed Systems: Application to Attitude Control for Quadrotor UAVs Under External Disturbances. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 5635-5660.	2.6	20
24	Nonlinear Disturbance Observer-Based Standoff Target Tracking for Small Fixed-Wing UAVs. International Journal of Aeronautical and Space Sciences, 2021, 22, 108-119.	1.0	18
25	Gaussian Process Based Channel Prediction for Communication-Relay UAV in Urban Environments. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 313-325.	2.6	17
26	Fuzzy-Based Super-Twisting Sliding Mode Stabilization Control for Under-Actuated Rotary Inverted Pendulum Systems. IEEE Access, 2020, 8, 185079-185092.	2.6	17
27	Towards monocular vision-based autonomous flight through deep reinforcement learning. Expert Systems With Applications, 2022, 198, 116742.	4.4	16
28	Morphogen diffusion algorithms for tracking and herding using a swarm of kilobots. Soft Computing, 2018, 22, 1833-1844.	2.1	14
29	Optimal Task Assignment for UAV Swarm Operations in Hostile Environments. International Journal of Aeronautical and Space Sciences, 2021, 22, 456-467.	1.0	14
30	Receding-horizon RRT-Infotaxis for autonomous source search in urban environments. Aerospace Science and Technology, 2022, 120, 107276.	2.5	14
31	Vision-Based Obstacle Avoidance for UAVs via Imitation Learning with Sequential Neural Networks. International Journal of Aeronautical and Space Sciences, 2020, 21, 768-779.	1.0	13
32	Prescribed performance adaptive finite-time control for uncertain horizontal platform systems. ISA Transactions, 2020, 103, 122-130.	3.1	11
33	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.	2.1	11
34	Airborne behaviour monitoring using Gaussian processes with map information. IET Radar, Sonar and Navigation, 2013, 7, 393-400.	0.9	10
35	Attitude stabilization of flapping micro-air vehicles via an observer-based sliding mode control method. Aerospace Science and Technology, 2018, 76, 386-393.	2.5	10
36	Decentralized Multi-Subgroup Formation Control With Connectivity Preservation and Collision Avoidance. IEEE Access, 2020, 8, 71525-71534.	2.6	10

#	ARTICLE	IF	CITATIONS
37	Autonomous Source Search for UAVs Using Gaussian Mixture Model-Based Infotaxis: Algorithm and Flight Experiments. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 4238-4254.	2.6	10
38	Communication-Aware Trajectory Planning for Unmanned Aerial Vehicles in Urban Environments. Journal of Guidance, Control, and Dynamics, 2018, 41, 2271-2282.	1.6	9
39	Optimal communication relay positioning in mobile multi-node networks. Robotics and Autonomous Systems, 2020, 129, 103517.	3.0	8
40	Prediction of air-to-ground communication strength for relay UAV trajectory planner in urban environments. , 2017, , .		7
41	A new continuous high order sliding mode controller for synchronizing perturbed Genesio's systems in finite time. Journal of the Franklin Institute, 2020, 357, 3451-3468.	1.9	7
42	Disturbance Observer-Based Continuous Finite-Time Sliding Mode Control against Matched and Mismatched Disturbances. Complexity, 2020, 2020, 1-14.	0.9	7
43	Communication-aware convoy following guidance for UAVs in a complex urban environment. , 2016, , .		5
44	Decentralized Hybrid Flocking Guidance for a Swarm of Small UAVs. , 2019, , .		5
45	A modified generic second order algorithm with fixed-time stability. ISA Transactions, 2021, 109, 72-80.	3.1	4
46	Improvement of Decentralized Flocking Flight Efficiency of Fixed-Wing UAVs Using Inactive Agents. , 2019, , .		3
47	Using Lazy Agents to Improve the Flocking Efficiency of Multiple UAVs. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 103, 1.	2.0	3
48	Dual-layer optimization-based control allocation for a fixed-wing UAV. Aerospace Science and Technology, 2021, 119, 107184.	2.5	3
49	Task Assignment for Deploying Unmanned Aircraft as Decoys. International Journal of Control, Automation and Systems, 2020, 18, 3204-3217.	1.6	3
50	Source Term Estimation Using Deep Reinforcement Learning With Gaussian Mixture Model Feature Extraction for Mobile Sensors. IEEE Robotics and Automation Letters, 2022, 7, 8323-8330.	3.3	3
51	Information-Driven Autonomous Search and Source Reconstruction Using Cooperative Mobile Sensors. , 2019, , .		2
52	Comparison of station keeping strategies for long endurance autonomous surface vehicle. Journal of Marine Science and Technology, 2020, 25, 13-25.	1.3	2
53	Receding Horizon-Based Infotaxis With Random Sampling for Source Search and Estimation in Complex Environments. IEEE Transactions on Aerospace and Electronic Systems, 2023, 59, 591-609.	2.6	2
54	Fuzzy expert rule-based airborne monitoring of ground vehicle behaviour. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
55	Road-map assisted standoff tracking of moving ground vehicle using nonlinear model predictive control. , 2012, , .		1
56	New Environmental Dependent Modelling with Gaussian Particle Filtering Based Implementation for Ground Vehicle Tracking. , 2016, , .		1
57	Comments on "Continuous Integral Terminal Third-Order Sliding Mode Motion Control for Piezoelectric Nanopositioning System" IEEE/ASME Transactions on Mechatronics, 2018, 23, 1488-1490.	3.7	1
58	Experimental Validation of Gaussian Process-Based Air-to-Ground Communication Quality Prediction in Urban Environments. Sensors, 2019, 19, 3221.	2.1	1
59	Decentralized Multiple V-Formation Control in Undirected Time-Varying Network Topologies. , 2019, , .		1
60	Adaptive Second-Order Sliding Mode Algorithm-Based Modified Function Projective Synchronization of Uncertain Hyperchaotic Systems. IEEE Access, 2020, 8, 149952-149962.	2.6	1
61	Monocular vision-based time-to-collision estimation for small drones by domain adaptation of simulated images. Expert Systems With Applications, 2022, 199, 116973.	4.4	1
62	Enhanced location tracking in sensor fusion-assisted virtual reality micro-manipulation environments. PLoS ONE, 2021, 16, e0261933.	1.1	1
63	Neural Network Model Compression Algorithms for Image Classification in Embedded Systems. The Journal of Korea Robotics Society, 2022, 17, 133-141.	0.2	1
64	Flight Formation Control Edited by J. A. Guerrero and R. Lozano Co-published by John Wiley and Sons, The Atrium, Southern Gate, Chichester, West Sussex, PO19 8SQ and ISTE Ltd, 27-37 St. George's Road, London, SW19 4EU, UK. 2012. 328pp. Illustrated. £96.95. ISBN 978-1-84821-323-4.. Aeronautical Journal, 2015, 119, 252-253.	1.1	0
65	Coordinated standoff tracking of in- and out-of-surveillance targets using constrained particle filter for UAVs. , 2015, , .		0
66	Synchronization of perturbed Genesio-Tesi chaotic systems via a new finite-time controller. , 2018, , .		0
67	Adaptive Integral Super-Twisting Sliding Mode Control for Uncertain Stochastic Systems. , 2019, , .		0
68	Performance Evaluation of Learning-Based Channel Prediction for Communication Relay UAVs in Urban Environments. IFAC-PapersOnLine, 2019, 52, 292-297.	0.5	0