

# Hoam Chung

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/978338/publications.pdf>

Version: 2024-02-01

58  
papers

796  
citations

933447

10  
h-index

642732

23  
g-index

58  
all docs

58  
docs citations

58  
times ranked

818  
citing authors

#	ARTICLE	IF	CITATIONS
1	Image-based 3D reconstruction for rail profile measurement. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2023, 237, 309-321.	2.0	2
2	Scalar field estimation with mobile sensor networks. International Journal of Robust and Nonlinear Control, 2021, 31, 4287-4305.	3.7	4
3	Learning to Assist Drone Landings. IEEE Robotics and Automation Letters, 2021, 6, 3192-3199.	5.1	7
4	Mapping Very-High-Resolution Evapotranspiration from Unmanned Aerial Vehicle (UAV) Imagery. ISPRS International Journal of Geo-Information, 2021, 10, 211.	2.9	12
5	Dependence of CWSI-Based Plant Water Stress Estimation with Diurnal Acquisition Times in a Nectarine Orchard. Remote Sensing, 2021, 13, 2775.	4.0	11
6	Trajectory tracking control of quadcopters under tunnel effects. Mechatronics, 2021, 78, 102628.	3.3	7
7	Pneumatic actuation-based bidirectional modules with variable stiffness and closed-loop position control. , 2021, , .		0
8	Trajectory Planning using Nonlinear Receding Horizon Optimization for an Autonomous Airship. , 2021, , .		1
9	The Lobster-inspired Antagonistic Actuation Mechanism Towards a Bending Module. , 2020, , .		1
10	Predicting Early Stage Drug Induced Parkinsonism using Unsupervised and Supervised Machine Learning. , 2020, 2020, 776-779.		2
11	A lobster-inspired bending module for compliant robotic applications. Bioinspiration and Biomimetics, 2020, 15, 056009.	2.9	15
12	A lobster-inspired articulated shaft for minimally invasive surgery. Robotics and Autonomous Systems, 2020, 131, 103599.	5.1	8
13	Using accelerometer as a diagnostic tool to detect drug-induced parkinsonism (DIP) secondary to first-generation anti-psychotic medications. Australasian Psychiatry, 2020, 28, 348-353.	0.7	5
14	Integral Backstepping Position Control for Quadrotors in Tunnel-Like Confined Environments. , 2019, , .		6
15	Design Methodology of a Small Unmanned Airship with Optimized Fins. , 2019, , .		1
16	Minimizing max time consensus tracking on a multi-quadrotor testbed. Control Engineering Practice, 2019, 92, 104128.	5.5	1
17	Outdoor cooperative flight using decentralized consensus algorithm and a guaranteed real-time communication protocol. Control Engineering Practice, 2019, 88, 128-140.	5.5	5
18	An alignment maximization method for the kinematics of the eye and eye-head fixations. Vision Research, 2019, 158, 58-71.	1.4	4

#	ARTICLE	IF	CITATIONS
19	A device for measuring the variable lateral bow angle and its impact on score loss. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2019, 233, 362-369.	0.7	0
20	Estimating Scalar Fields with Mobile Sensor Networks. , 2019, , .		1
21	Implementation of min-max time consensus tracking on a multi-quadrotor testbed. , 2019, , .		3
22	An efficient RANSAC hypothesis evaluation using sufficient statistics for RGB-D pose estimation. Autonomous Robots, 2019, 43, 1257-1270.	4.8	7
23	Decentralized and adaptive control of multiple nonholonomic robots for sensing coverage. International Journal of Robust and Nonlinear Control, 2018, 28, 2636-2650.	3.7	13
24	Distributed Coverage Control of Mobile Sensors: Generalized Approach using Distance Functions. , 2018, , .		2
25	Small Scale Unmanned Aerial System (UAS) for Railway Culvert and Tunnel Inspection. , 2018, , .		2
26	A low cost omnidirectional relative localization sensor for swarm applications. , 2018, , .		8
27	Implementation of distributed consensus with guaranteed real-time communication on an outdoor quadrotor testbed. , 2017, , .		5
28	Adaptive Estimation of Crop Water Stress in Nectarine and Peach Orchards Using High-Resolution Imagery from an Unmanned Aerial Vehicle (UAV). Remote Sensing, 2017, 9, 828.	4.0	99
29	A 3D line alignment method for loop closure and mutual localisation in limited resourced MAVs. , 2016, , .		1
30	Decentralized Adaptive Coverage Control of Nonholonomic Mobile Robots**S. Srikant is partially supported by IIT Bombay IRCC Seed Grant 12IRCCSG007.. IFAC-PapersOnLine, 2016, 49, 410-415.	0.9	5
31	Implementation of distributed consensus on an outdoor testbed. , 2016, , .		5
32	Path planning and assembly mode-changes of 6-DOF Stewart-Gough-type parallel manipulators. Mechanism and Machine Theory, 2016, 106, 30-49.	4.5	15
33	Numerical investigation of a hovering micro rotor in close proximity to a ceiling plane. Journal of Fluids and Structures, 2016, 66, 229-253.	3.4	20
34	Search and tracking algorithms for swarms of robots: A survey. Robotics and Autonomous Systems, 2016, 75, 422-434.	5.1	134
35	Outdoor co-operative control of multiple quadcopters using decentralized GPS localisation. , 2015, , .		4
36	An efficient pose estimation for limited-resourced MAVs using sufficient statistics. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
37	Helicopter hovering attitude control using a direct feedthrough simultaneous state and disturbance observer. , 2015, , .		3
38	Computational investigation of micro rotorcraft near-wall hovering aerodynamics. , 2014, , .		15
39	Generation of the global workspace roadmap of the 3-R R using rotary disk search. Mechanism and Machine Theory, 2014, 78, 248-262.	4.5	4
40	Path Planning of Planar Parallel Mechanisms Using Global Workspace Road Maps. , 2012, , .		1
41	Toward Robotic Sensor Webs: Algorithms, Systems, and Experiments. Proceedings of the IEEE, 2011, 99, 1562-1586.	21.3	14
42	On the optimal detection of an underwater intruder in a channel using unmanned underwater vehicles. Naval Research Logistics, 2011, 58, 804-820.	2.2	26
43	Collision-free trajectory generation of robotic manipulators using receding horizon strategy. , 2011, , .		1
44	Harbor attack: A pursuit-evasion game. , 2011, , .		14
45	An External Active-Set Strategy for Solving Optimal Control Problems. IEEE Transactions on Automatic Control, 2009, 54, 1129-1133.	5.7	12
46	Enhancements for Contractive Receding Horizon Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 2637-2642.	0.4	0
47	An Accelerator for Packages Solving Discrete-Time Optimal Control Problems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 14295-14300.	0.4	1
48	Multiple Aircraft Deconflicted Path Planning with Weather Avoidance Constraints. , 2007, , .		18
49	Unmanned Helicopter Formation Flight Experiment for the Study of Mesh Stability. , 2007, , 37-56.		11
50	Autonomous Helicopter Formation Using Model Predictive Control. , 2006, , .		15
51	Conflict-free navigation in unknown urban environments. IEEE Robotics and Automation Magazine, 2006, 13, 27-33.	2.0	85
52	Autonomous Exploration In Unknown Urban Environments For Unmanned Aerial Vehicles. , 2005, , .		90
53	Hybrid control of biped robots to increase stability in locomotion. Journal of Field Robotics, 2000, 17, 187-197.	0.7	7
54	Hybrid control for biped robots using impedance control and computed-torque control. , 0, , .		22

#	ARTICLE	IF	CITATIONS
55	Impedance control and modulation for stable footing in locomotion of biped robots. , 0, , .		12
56	ZMP compensation by online trajectory generation for biped robots. , 0, , .		19
57	Multi-functional autopilot design and experiments for rotorcraft-based unmanned aerial vehicles. , 0, , .		4
58	Optimization of Fins to Minimize Directional Instability in Airships. Journal of Aircraft, 0, , 1-12.	2.4	3