

Hoam Chung

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

796
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933447

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642732

23
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all docs

58
docs citations

58
times ranked

818
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Search and tracking algorithms for swarms of robots: A survey. <i>Robotics and Autonomous Systems</i> , 2016, 75, 422-434. | 5.1 | 134 |
| 2 | Adaptive Estimation of Crop Water Stress in Nectarine and Peach Orchards Using High-Resolution Imagery from an Unmanned Aerial Vehicle (UAV). <i>Remote Sensing</i> , 2017, 9, 828. | 4.0 | 99 |
| 3 | Autonomous Exploration In Unknown Urban Environments For Unmanned Aerial Vehicles. , 2005, , . | | 90 |
| 4 | Conflict-free navigation in unknown urban environments. <i>IEEE Robotics and Automation Magazine</i> , 2006, 13, 27-33. | 2.0 | 85 |
| 5 | On the optimal detection of an underwater intruder in a channel using unmanned underwater vehicles. <i>Naval Research Logistics</i> , 2011, 58, 804-820. | 2.2 | 26 |
| 6 | Hybrid control for biped robots using impedance control and computed-torque control. , 0, , . | | 22 |
| 7 | Numerical investigation of a hovering micro rotor in close proximity to a ceiling plane. <i>Journal of Fluids and Structures</i> , 2016, 66, 229-253. | 3.4 | 20 |
| 8 | ZMP compensation by online trajectory generation for biped robots. , 0, , . | | 19 |
| 9 | Multiple Aircraft Deconflicted Path Planning with Weather Avoidance Constraints. , 2007, , . | | 18 |
| 10 | Autonomous Helicopter Formation Using Model Predictive Control. , 2006, , . | | 15 |
| 11 | Computational investigation of micro rotorcraft near-wall hovering aerodynamics. , 2014, , . | | 15 |
| 12 | Path planning and assembly mode-changes of 6-DOF Stewart-Gough-type parallel manipulators. <i>Mechanism and Machine Theory</i> , 2016, 106, 30-49. | 4.5 | 15 |
| 13 | A lobster-inspired bending module for compliant robotic applications. <i>Bioinspiration and Biomimetics</i> , 2020, 15, 056009. | 2.9 | 15 |
| 14 | Toward Robotic Sensor Webs: Algorithms, Systems, and Experiments. <i>Proceedings of the IEEE</i> , 2011, 99, 1562-1586. | 21.3 | 14 |
| 15 | Harbor attack: A pursuit-evasion game. , 2011, , . | | 14 |
| 16 | Decentralized and adaptive control of multiple nonholonomic robots for sensing coverage. <i>International Journal of Robust and Nonlinear Control</i> , 2018, 28, 2636-2650. | 3.7 | 13 |
| 17 | Impedance control and modulation for stable footing in locomotion of biped robots. , 0, , . | | 12 |
| 18 | An External Active-Set Strategy for Solving Optimal Control Problems. <i>IEEE Transactions on Automatic Control</i> , 2009, 54, 1129-1133. | 5.7 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Mapping Very-High-Resolution Evapotranspiration from Unmanned Aerial Vehicle (UAV) Imagery. ISPRS International Journal of Geo-Information, 2021, 10, 211. | 2.9 | 12 |
| 20 | Dependence of CWSI-Based Plant Water Stress Estimation with Diurnal Acquisition Times in a Nectarine Orchard. Remote Sensing, 2021, 13, 2775. | 4.0 | 11 |
| 21 | Unmanned Helicopter Formation Flight Experiment for the Study of Mesh Stability. , 2007, , 37-56. | | 11 |
| 22 | A low cost omnidirectional relative localization sensor for swarm applications. , 2018, , . | | 8 |
| 23 | A lobster-inspired articulated shaft for minimally invasive surgery. Robotics and Autonomous Systems, 2020, 131, 103599. | 5.1 | 8 |
| 24 | Hybrid control of biped robots to increase stability in locomotion. Journal of Field Robotics, 2000, 17, 187-197. | 0.7 | 7 |
| 25 | An efficient RANSAC hypothesis evaluation using sufficient statistics for RGB-D pose estimation. Autonomous Robots, 2019, 43, 1257-1270. | 4.8 | 7 |
| 26 | Learning to Assist Drone Landings. IEEE Robotics and Automation Letters, 2021, 6, 3192-3199. | 5.1 | 7 |
| 27 | Trajectory tracking control of quadcopters under tunnel effects. Mechatronics, 2021, 78, 102628. | 3.3 | 7 |
| 28 | Integral Backstepping Position Control for Quadrotors in Tunnel-Like Confined Environments. , 2019, , . | | 6 |
| 29 | 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 |
| 30 | Implementation of distributed consensus on an outdoor testbed. , 2016, , . | | 5 |
| 31 | Implementation of distributed consensus with guaranteed real-time communication on an outdoor quadrotor testbed. , 2017, , . | | 5 |
| 32 | Outdoor cooperative flight using decentralized consensus algorithm and a guaranteed real-time communication protocol. Control Engineering Practice, 2019, 88, 128-140. | 5.5 | 5 |
| 33 | 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 |
| 34 | Multi-functional autopilot design and experiments for rotorcraft-based unmanned aerial vehicles. , 0, , . | | 4 |
| 35 | 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 |
| 36 | Outdoor co-operative control of multiple quadcopters using decentralized GPS localisation. , 2015, , . | | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | An alignment maximization method for the kinematics of the eye and eye-head fixations. Vision Research, 2019, 158, 58-71. | 1.4 | 4 |
| 38 | Scalar field estimation with mobile sensor networks. International Journal of Robust and Nonlinear Control, 2021, 31, 4287-4305. | 3.7 | 4 |
| 39 | An efficient pose estimation for limited-resourced MAVs using sufficient statistics. , 2015, , . | | 3 |
| 40 | Helicopter hovering attitude control using a direct feedthrough simultaneous state and disturbance observer. , 2015, , . | | 3 |
| 41 | Implementation of min-max time consensus tracking on a multi-quadrotor testbed. , 2019, , . | | 3 |
| 42 | Optimization of Fins to Minimize Directional Instability in Airships. Journal of Aircraft, 0, , 1-12. | 2.4 | 3 |
| 43 | Distributed Coverage Control of Mobile Sensors: Generalized Approach using Distance Functions. , 2018, , . | | 2 |
| 44 | Small Scale Unmanned Aerial System (UAS) for Railway Culvert and Tunnel Inspection. , 2018, , . | | 2 |
| 45 | Predicting Early Stage Drug Induced Parkinsonism using Unsupervised and Supervised Machine Learning. , 2020, 2020, 776-779. | | 2 |
| 46 | 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 |
| 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 | Collision-free trajectory generation of robotic manipulators using receding horizon strategy. , 2011, , . | | 1 |
| 49 | Path Planning of Planar Parallel Mechanisms Using Global Workspace Road Maps. , 2012, , . | | 1 |
| 50 | A 3D line alignment method for loop closure and mutual localisation in limited resourced MAVs. , 2016, , . | | 1 |
| 51 | Design Methodology of a Small Unmanned Airship with Optimized Fins. , 2019, , . | | 1 |
| 52 | Min- max time consensus tracking on a multi-quadrotor testbed. Control Engineering Practice, 2019, 92, 104128. | 5.5 | 1 |
| 53 | Estimating Scalar Fields with Mobile Sensor Networks. , 2019, , . | | 1 |
| 54 | The Lobster-inspired Antagonistic Actuation Mechanism Towards a Bending Module. , 2020, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Trajectory Planning using Nonlinear Receding Horizon Optimization for an Autonomous Airship. , 2021, , . | | 1 |
| 56 | Enhancements for Contractive Receding Horizon Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 2637-2642. | 0.4 | 0 |
| 57 | 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 |
| 58 | Pneumatic actuation-based bidirectional modules with variable stiffness and closed-loop position control. , 2021, , . | | 0 |