Mina Kamel

List of Publications by Year
in descending order

28 papers	1,770 citations	687363 13 h-index	888059 17 g-index
29 all docs	29 docs citations	29 times ranked	1361 citing authors

#	Article	IF	Citations
1	Receding Horizon "Next-Best-View" Planner for 3D Exploration. , 2016, , .		319
2	Receding horizon path planning for 3D exploration and surface inspection. Autonomous Robots, 2018, 42, 291-306.	4.8	153
3	The Voliro Omniorientational Hexacopter: An Agile and Maneuverable Tiltable-Rotor Aerial Vehicle. IEEE Robotics and Automation Magazine, 2018, 25, 34-44.	2.0	150
4	Fast nonlinear Model Predictive Control for unified trajectory optimization and tracking. , 2016, , .		142
5	Linear vs Nonlinear MPC for Trajectory Tracking Applied to Rotary Wing Micro Aerial Vehicles. IFAC-PapersOnLine, 2017, 50, 3463-3469.	0.9	114
6	Model Predictive Control for Trajectory Tracking of Unmanned Aerial Vehicles Using Robot Operating System. Studies in Computational Intelligence, 2017, , 3-39.	0.9	114
7	Three-dimensional coverage path planning via viewpoint resampling and tour optimization for aerial robots. Autonomous Robots, 2016, 40, 1059-1078.	4.8	105
8	Collaborative transportation using MAVs via passive force control. , 2017, , .		74
9	Fast nonlinear model predictive control for multicopter attitude tracking on SO(3). , 2015, , .		70
10	LQR-Assisted Whole-Body Control of a Wheeled Bipedal Robot With Kinematic Loops. IEEE Robotics and Automation Letters, 2020, 5, 3745-3752.	5.1	68
11	Robust collaborative object transportation using multiple MAVs. International Journal of Robotics Research, 2019, 38, 1020-1044.	8.5	59
12	Aerial picking and delivery of magnetic objects with MAVs. , 2017, , .		50
13	Autonomous Exploration and Inspection Path Planning for Aerial Robots Using the Robot Operating System. Studies in Computational Intelligence, 2019, , 67-111.	0.9	46
14	A decentralized multi-agent unmanned aerial system to search, pick up, and relocate objects. , 2017, , .		41
15	PaintCopter: An Autonomous UAV for Spray Painting on Three-Dimensional Surfaces. IEEE Robotics and Automation Letters, 2018, 3, 2862-2869.	5.1	39
16	Design and modeling of dexterous aerial manipulator. , 2016, , .		37
17	Design and optimal control of a tiltrotor micro-aerial vehicle for efficient omnidirectional flight. International Journal of Robotics Research, 2020, 39, 1305-1325.	8.5	37
18	Model Predictive Control for Micro Aerial Vehicles: A Survey. , 2021, , .		29

#	Article	IF	Citations
19	Tree cavity inspection using aerial robots. , 2016, , .		27
20	Build Your Own Visual-Inertial Drone: A Cost-Effective and Open-Source Autonomous Drone. IEEE Robotics and Automation Magazine, 2018, 25, 89-103.	2.0	21
21	The ETHâ€MAV Team in the MBZ International Robotics Challenge. Journal of Field Robotics, 2019, 36, 78-103.	6.0	20
22	Local Positioning System Using UWB Range Measurements for an Unmanned Blimp. IEEE Robotics and Automation Letters, 2018, 3, 2971-2978.	5.1	16
23	Dynamic System Identification, and Control for a Cost-Effective and Open-Source Multi-rotor MAV. Springer Proceedings in Advanced Robotics, 2018, , 605-620.	1.3	12
24	Learning Dynamics for Improving Control of Overactuated Flying Systems. IEEE Robotics and Automation Letters, 2020, 5, 5283-5290.	5.1	10
25	Real-time dense surface reconstruction for aerial manipulation. , 2016, , .		9
26	Full-body multi-objective controller for aerial manipulation. , 2016, , .		3
27	Robustness Analysis and Tuning for Pressure Control in Managed Pressure Drilling. IFAC-PapersOnLine, 2016, 49, 556-561.	0.9	1
28	NMPC for Multicopter's Trajectory Tracking Using Modified Rodrigues Parameters. , 2018, , .		1