Guilherme A S Pereira

List of Publications by Year
in descending order

61	1,637	586496 16	425179 34
papers	citations	h-index	g-index

62	62	62	1605
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Parallel Sensor-Space Lattice Planner for Real-Time Obstacle Avoidance. Sensors, 2022, 22, 4770.	2.1	0
2	An aerial robotic system for inventory of stockpile warehouses. Engineering Reports, 2021, 3, e12396.	0.9	10
3	On the Development of a Tether-based Drone Localization System. , 2021, , .		5
4	ICAR 2019 Special Issue. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 102, 1.	2.0	0
5	Real-Time Ellipse Detection for Robotics Applications. IEEE Robotics and Automation Letters, 2021, 6, 7009-7016.	3.3	11
6	Fast Path Computation using Lattices in the Sensor-Space for Forest Navigation. , 2021, , .		4
7	NASA Space Robotics Challenge 2 Qualification Round: An Approach to Autonomous Lunar Rover Operations. IEEE Aerospace and Electronic Systems Magazine, 2021, 36, 24-41.	2.3	4
8	Tangle-Free Exploration with a Tethered Mobile Robot. Remote Sensing, 2020, 12, 3858.	1.8	4
9	Precise Landing of Autonomous Aerial Vehicles Using Vector Fields. IEEE Robotics and Automation Letters, 2020, 5, 4337-4344.	3.3	18
10	Navigation of Semi-autonomous Service Robots Using Local Information and Anytime Motion Planners. Robotica, 2020, 38, 2080-2098.	1.3	6
11	State Estimation for Aerial Vehicles in Forest Environments. , 2019, , .		3
12	Robust attitude estimation using an adaptive unscented Kalman filter. , 2019, , .		5
13	GNSS/LiDAR-Based Navigation of an Aerial Robot in Sparse Forests. Sensors, 2019, 19, 4061.	2.1	20
14	Quaternion-Based Robust Attitude Estimation Using an Adaptive Unscented Kalman Filter. Sensors, 2019, 19, 2372.	2.1	40
15	Adaptable Platform for Interactive Swarm Robotics (APIS): A Human-Swarm Interaction Research Testbed. , 2019, , .		4
16	Learning robot reaching motions by demonstration using nonlinear autoregressive models. Robotics and Autonomous Systems, 2018, 107, 182-195.	3.0	4
17	Multi-robot Deployment using Topological Maps. Journal of Intelligent and Robotic Systems: Theory and Applications, 2017, 86, 641-661.	2.0	16
18	A framework for optimal repairing of vector field-based motion plans. , 2016, , .		10

#	Article	IF	Citations
19	An Architecture for Navigation of Service Robots in Human-Populated Office-like Environments**This work was supported by FundaÃ§Ã£o de Amparo Ã Pesquisa do Estado de Minas Gerais (FAPEMIG). Arthur Araujo and Guilherme Pereira are supported by Conselho Nacional de Desenvolvimento CientÃfico e Tecnologico (CNPq), Brazil.. IFAC-PapersOnLine, 2015, 48, 189-194.	0.5	8
20	Multi-UAV Routing for Area Coverage and Remote Sensing with Minimum Time. Sensors, 2015, 15, 27783-27803.	2.1	227
21	A Probabilistic Approach for Fusing People Detectors. Journal of Control, Automation and Electrical Systems, 2015, 26, 616-629.	1.2	8
22	Longitudinal Model Identification and Velocity Control of an Autonomous Car. IEEE Transactions on Intelligent Transportation Systems, 2014, , 1-11.	4.7	18
23	Temporal synchronization in mobile sensor networks using image sequence analysis. Machine Vision and Applications, 2014, 25, 1067-1076.	1.7	1
24	Decentralized controllers for perimeter surveillance with teams of aerial robots. Advanced Robotics, 2013, 27, 697-709.	1.1	27
25	Swarm Coordination Based on Smoothed Particle Hydrodynamics Technique. IEEE Transactions on Robotics, 2013, 29, 383-399.	7.3	76
26	Navigation of an Autonomous Car Using Vector Fields and the Dynamic Window Approach. Journal of Control, Automation and Electrical Systems, 2013, 24, 106-116.	1.2	31
27	Coordination of multiple fixed-wing UAVs traversing intersecting periodic paths. , 2013, , .		5
28	On the development of a small hand-held multi-UAV platform for surveillance and monitoring. , 2013, , .		5
29	Coverage of curves in 3D with swarms of nonholonomic aerial robots. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 10367-10372.	0.4	9
30	Temporal synchronization of non-overlapping videos using known object motion. Pattern Recognition Letters, 2011, 32, 38-46.	2.6	7
31	LocalizaÃ§Ã£o, modelagem e controle de um mini-helicÃ³ptero em ambientes internos. Controle and Automacao, 2011, 22, 238-255.	0.2	0
32	Application of Remote Sensing Optical Properties of Ship Wakes at Sea Area out of Dalian Harbor. , 2010, , .		0
33	Circulation of curves using vector fields: Actual robot experiments in 2D and 3D workspaces. , 2010, , .		8
34	Vector Fields for Robot Navigation Along Time-Varying Curves in n-Dimensions. IEEE Transactions on Robotics, 2010, 26, 647-659.	7.3	136
35	Development of a Hand-Launched Small UAV for Ground Reconnaissance. IEEE Transactions on Aerospace and Electronic Systems, 2010, 46, 335-348.	2.6	59
36	Development of a PC-Based Flight Simulator for Pilot Assistance Research. , 2010, , .		1

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37	Artificial vector fields for robot convergence and circulation of time-varying curves in n-dimensional spaces. , 2009, , .		11
38	Robot Navigation in Multi-terrain Outdoor Environments. International Journal of Robotics Research, 2009, 28, 685-700.	5.8	23
39	Simultaneous Coverage and Tracking (SCAT) of Moving Targets with Robot Networks. Springer Tracts in Advanced Robotics, 2009, , 85-99.	0.3	66
40	Closed loop motion planning of cooperating mobile robots using graph connectivity. Robotics and Autonomous Systems, 2008, 56, 373-384.	3.0	29
41	Control of swarms based on Hydrodynamic models. , 2008, , .		43
42	Sensing and coverage for a network of heterogeneous robots. , 2008, , .		192
43	Airplane attitude estimation using computer vision: simple method and actual experiments. Electronics Letters, 2008, 44, 1303.	0.5	13
44	Synchronizing Video Cameras with Non-overlapping Fields of View. , 2008, , .		4
45	Robot Navigation in Multi-terrain Outdoor Environments. Springer Tracts in Advanced Robotics, 2008, , 331-342.	0.3	3
46	Hybrid mobile robot navigational strategy for efficient data collection in sparsely deployed sensor networks. , 2007, , .		7
47	Fully continuous vector fields for mobile robot navigation on sequences of discrete triangular regions. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	6
48	Mobile robot outdoor localization using planar beacons and visual improved odometry. , 2007, , .		3
49	Fluids in Electrostatic Fields: An Analogy for Multirobot Control. IEEE Transactions on Magnetics, 2007, 43, 1765-1768.	1.2	34
50	Data-based dynamical modeling of externally observed actuators-only robots. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2006, 36, 706-717.	3.4	1
51	Robot navigation based on electrostatic field computation. IEEE Transactions on Magnetics, 2006, 42, 1459-1462.	1.2	24
52	Abstraction and Control for Swarms of Robots. Springer Tracts in Advanced Robotics, 2005, , 224-233.	0.3	2
53	Cooperative localization and tracking in distributed robot-sensor networks. Tsinghua Science and Technology, 2005, 10, 91-101.	4.1	4
54	Decentralized Algorithms for Multirobot Manipulation via Caging. Springer Tracts in Advanced Robotics, 2004, , 257-273.	0.3	15

#	Article	IF	Citations
55	A robot for installation and removal of aircraft warning spheres on aerial power transmission lines. IEEE Transactions on Power Delivery, 2003, 18, 1581-1582.	2.9	16
56	Cooperative Transport of Planar Objects by Multiple Mobile Robots Using Object Closure. , 2003, , 287-296.		22
57	Data based dynamical modeling of vision observed small robots. , 0, , .		2
58	A mobile manipulator for installation and removal of aircraft warning spheres on aerial power transmission lines. , 0, , .		29
59	On Computing Complex Navigation Functions. , 0, , .		7
60	Fluids, Particles, and Multiple Robots in Electrostatic Fields. , 0, , .		0
61	Distributed Search and Rescue with Robot and Sensor Teams. , 0, , 529-538.		89