BegoÃ±a C Arrue

List of Publications by Year
in descending order

41 papers	1,073 citations	566801 15 h-index	525886 27 g-index
43 all docs	43 docs citations	43 times ranked	936 citing authors

#	ARTICLE	IF	CITATIONS
1	An intelligent system for false alarm reduction in infrared forest-fire detection. IEEE Intelligent Systems, 2000, 15, 64-73.	0.2	145
2	Computer vision techniques for forest fire perception. Image and Vision Computing, 2008, 26, 550-562.	2.7	131
3	Multiple eyes in the skies - Architecture and perception issues in the comets unmanned air vehicles project. IEEE Robotics and Automation Magazine, 2005, 12, 46-57.	2.2	93
4	Cooperative Large Area Surveillance with a Team of Aerial Mobile Robots for Long Endurance Missions. Journal of Intelligent and Robotic Systems: Theory and Applications, 2013, 70, 329-345.	2.0	86
5	Robotic System for Inspection by Contact of Bridge Beams Using UAVs. Sensors, 2019, 19, 305.	2.1	57
6	Anthropomorphic, compliant and lightweight dual arm system for aerial manipulation. , 2017, , .		51
7	Distributed Approach for Coverage and Patrolling Missions with a Team of Heterogeneous Aerial Robots under Communication Constraints. International Journal of Advanced Robotic Systems, 2013, 10, 28.	1.3	43
8	Detection, Location and Grasping Objects Using a Stereo Sensor on UAV in Outdoor Environments. Sensors, 2017, 17, 103.	2.1	43
9	One-to-One Coordination Algorithm for Decentralized Area Partition in Surveillance Missions with a Team of Aerial Robots. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 74, 269-285.	2.0	41
10	Decentralized strategy to ensure information propagation in area monitoring missions with a team of UAVs under limited communications. , 2013, , .		30
11	Control and perception components for autonomous vehicle guidance. Application to the ROMEO vehicles. Control Engineering Practice, 1999, 7, 1291-1299.	3.2	29
12	A decentralized algorithm for area surveillance missions using a team of aerial robots with different sensing capabilities. , 2014, , .		26
13	Techniques for reducing false alarms in infrared forest-fire automatic detection systems. Control Engineering Practice, 1999, 7, 123-131.	3.2	24
14	Cooperative perimeter surveillance with a team of mobile robots under communication constraints. , 2013, , .		24
15	Grasp Planning and Visual Servoing for an Outdoors Aerial Dual Manipulator. Engineering, 2020, 6, 77-88.	3.2	23
16	Smoke monitoring and measurement using image processing: application to forest fires. , 2003, , .		22
17	Laboratory fire spread analysis using visual and infrared images. International Journal of Wildland Fire, 2006, 15, 179.	1.0	21
18	Autonomous UAV System for Cleaning Insulators in Power Line Inspection and Maintenance. Sensors, 2021, 21, 8488.	2.1	21

#	Article	IF	Citations
19	Intelligent control of nonholonomic mobile robots with fuzzy perception. Fuzzy Sets and Systems, 2003, 134, 47-64.	1.6	20
20	A 3D-Printable Docking System for Aerial Robots: Controlling Aerial Robotic Manipulators in Outdoor Industrial Applications. IEEE Robotics and Automation Magazine, 2019, 26, 44-53.	2.2	20
21	Extracting Objects for Aerial Manipulation on UAVs Using Low Cost Stereo Sensors. Sensors, 2016, 16, 700.	2.1	17
22	The block-sharing strategy for area monitoring missions using a decentralized multi-UAV system. , 2014, , .		12
23	Multi-UAV ground control station for gliding aircraft. , 2015, , .		12
24	A Distributed Algorithm for Area Partitioning in Grid-Shape and Vector-Shape Configurations with Multiple Aerial Robots. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 84, 543-557.	2.0	11
25	Soft-Tentacle Gripper for Pipe Crawling to Inspect Industrial Facilities Using UAVs. Sensors, 2021, 21, 4142.	2.1	10
26	An Efficient Distributed Area Division Method for Cooperative Monitoring Applications with Multiple UAVs. Sensors, 2020, 20, 3448.	2.1	9
27	Bio-Inspired Morphing Tail for Flapping-Wings Aerial Robots Using Macro Fiber Composites. Applied Sciences (Switzerland), 2021, 11, 2930.	1.3	9
28	Persistent monitoring with a team of autonomous gliders using static soaring. , 2014, , .		6
29	Alâ€Robotics team: A cooperative multiâ€unmanned aerial vehicle approach for the Mohamed Bin Zayed International Robotic Challenge. Journal of Field Robotics, 2019, 36, 104-124.	3.2	6
30	High-Performance Morphing Wing for Large-Scale Bio-Inspired Unmanned Aerial Vehicles. IEEE Robotics and Automation Letters, 2022, 7, 8076-8083.	3.3	6
31	Cooperative perimeter surveillance using aerial robots and fixed ground stations*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 330-336.	0.4	5
32	Autonomous Landing of a Multicopter on a Moving Platform Based on Vision Techniques. Advances in Intelligent Systems and Computing, 2018, , 272-282.	0.5	5
33	Distributed Cooperation of Multiple UAVs for Area Monitoring Missions. Mechanisms and Machine Science, 2015, , 471-494.	0.3	5
34	A distributed framework for surveillance missions with aerial robots including dynamic assignment of the detected intruders. , 2016, , .		4
35	Dynamic zone assignment under priorities for perimeter surveillance missions with aerial robots. , 2015, , .		2
36	Hardware-implementable neural network for rotation-scaling invariant pattern classification. Journal of Electronic Imaging, 1992, 1, 293.	0.5	1

#	Article	IF	Citations
37	‹title›Aerial monitoring and measurement of forest fires‹/title›. , 2002, , .		1
38	‹title›Hough transform implementation using an analog associative network‹/title›. , 1991, , .		0
39	‹title›High-order curve recognition with the Hough transform using a connectionist approach‹/title›. , 1993, , .		0
40	Fast analog architecture for high-order curve recognition. Journal of Electronic Imaging, 1995, 4, 114.	0.5	0
41	Distributed Coordination of Networked Robots for Perimeter Surveillance Tasks. , 2014, , 379-406.		0