JosÃ© Ramiro MartÃ-nez de Dios

List of Publications by Year
in descending order

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76	2,609	304368	205818
papers	citations	22 h-index	48 g-index

89	89	89	2263
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental Results in Multi-UAV Coordination for Disaster Management and Civil Security Applications. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 61, 563-585.	2.0	321
2	An Unmanned Aircraft System for Automatic Forest Fire Monitoring and Measurement. Journal of Intelligent and Robotic Systems: Theory and Applications, 2012, 65, 533-548.	2.0	304
3	A cooperative perception system for multiple UAVs: Application to automatic detection of forest fires. Journal of Field Robotics, 2006, 23, 165-184.	3.2	239
4	The AEROARMS Project: Aerial Robots with Advanced Manipulation Capabilities for Inspection and Maintenance. IEEE Robotics and Automation Magazine, 2018, 25, 12-23.	2.2	157
5	An intelligent system for false alarm reduction in infrared forest-fire detection. IEEE Intelligent Systems, 2000, 15, 64-73.	0.2	145
6	Computer vision techniques for forest fire perception. Image and Vision Computing, 2008, 26, 550-562.	2.7	131
7	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
8	Novel Aerial Manipulator for Accurate and Robust Industrial NDT Contact Inspection: A New Tool for the Oil and Gas Inspection Industry. Sensors, 2019, 19, 1305.	2.1	91
9	Unmanned aerial vehicles as tools for forest-fire fighting. Forest Ecology and Management, 2006, 234, S263.	1.4	86
10	Cooperative Fire Detection using Unmanned Aerial Vehicles. , 0, , .		82
11	A distributed architecture for a robotic platform with aerial sensor transportation and selfâ€deployment capabilities. Journal of Field Robotics, 2011, 28, 303-328.	3.2	77
12	Automatic Forest-Fire Measuring Using Ground Stations and Unmanned Aerial Systems. Sensors, 2011, 11, 6328-6353.	2.1	76
13	Computer vision and robotics techniques in fish farms. Robotica, 2003, 21, 233-243.	1.3	66
14	Vision-based multi-UAV position estimation. IEEE Robotics and Automation Magazine, 2006, 13, 53-62.	2.2	60
15	Cooperative Unmanned Aerial Systems for Fire Detection, Monitoring, and Extinguishing. , 2015, , 2693-2722.		51
16	An Integrated Testbed for Cooperative Perception with Heterogeneous Mobile and Static Sensors. Sensors, 2011, 11, 11516-11543.	2.1	46
17	Cooperation Between UAS and Wireless Sensor Networks for Efficient Data Collection in Large Environments. Journal of Intelligent and Robotic Systems: Theory and Applications, 2013, 70, 491.	2.0	39
18	Data Retrieving From Heterogeneous Wireless Sensor Network Nodes Using UAVs. Journal of Intelligent and Robotic Systems: Theory and Applications, 2010, 60, 133-151.	2.0	38

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19	Testbeds for ubiquitous robotics: A survey. Robotics and Autonomous Systems, 2013, 61, 1487-1501.	3.0	35
20	Range-only SLAM for robot-sensor network cooperation. Autonomous Robots, 2018, 42, 649-663.	3.2	26
21	Introducing autonomous aerial robots in industrial manufacturing. Journal of Manufacturing Systems, 2021, 60, 312-324.	7.6	25
22	Techniques for reducing false alarms in infrared forest-fire automatic detection systems. Control Engineering Practice, 1999, 7, 123-131.	3.2	24
23	A WSN-Based Tool for Urban and Industrial Fire-Fighting. Sensors, 2012, 12, 15009-15035.	2.1	22
24	Automatic Detection of Windows Thermal Heat Losses in Buildings Using UAVs. , 2006, , .		21
25	Laboratory fire spread analysis using visual and infrared images. International Journal of Wildland Fire, 2006, 15, 179.	1.0	21
26	Efficient Cluster-Based Tracking Mechanisms for Camera-Based Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2015, 14, 1820-1832.	3.9	21
27	Multi-UAV Experiments: Application to Forest Fires. , 2007, , 207-228.		18
28	Firemen monitoring with multiple UAVs for search and rescue missions. , 2010, , .		16
29	Perception-Aware Perching on Powerlines With Multirotors. IEEE Robotics and Automation Letters, 2022, 7, 3077-3084.	3.3	15
30	Cooperative localization and tracking with a camera-based WSN. , 2009, , .		14
31	An Unmanned Aircraft System for Automatic Forest Fire Monitoring and Measurement. , 2011, , 533-548.		13
32	The GRIFFIN Perception Dataset: Bridging the Gap Between Flapping-Wing Flight and Robotic Perception. IEEE Robotics and Automation Letters, 2021, 6, 1066-1073.	3.3	12
33	An Adaptive Scheme for Robot Localization and Mapping with Dynamically Configurable Inter-Beacon Range Measurements. Sensors, 2014, 14, 7684-7710.	2.1	11
34	Efficient robot-sensor network distributed SEIF range-only SLAM. , 2014, , .		11
35	FIRE DETECTION USING AUTONOMOUS AERIAL VEHICLES WITH INFRARED AND VISUAL CAMERAS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 660-665.	0.4	10
36	Integration of aerial robots and wireless sensor and actuator networks. The AWARE project. , 2010, , .		10

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37	On-Line RSSI-Range Model Learning for Target Localization and Tracking. Journal of Sensor and Actuator Networks, 2017, 6, 15.	2.3	10
38	Free as a Bird: Event-Based Dynamic Sense-and-Avoid for Ornithopter Robot Flight. IEEE Robotics and Automation Letters, 2022, 7, 5413-5420.	3.3	10
39	An integrated testbed for heterogeneous mobile robots and other Cooperating Objects. , 2010, , .		9
40	Efficient collision-free trajectory planning for WSN data collection with Unmanned Aerial Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 220-225.	0.4	9
41	Robot-Beacon Distributed Range-Only SLAM for Resource-Constrained Operation. Sensors, 2017, 17, 903.	2.1	9
42	Experimental Results in Multi-UAV Coordination for Disaster Management and Civil Security Applications. , 2010, , 563-585.		9
43	On the Cooperation between Mobile Robots and Wireless Sensor Networks. Studies in Computational Intelligence, 2014, , 67-86.	0.7	8
44	Applications and Markets for Cooperating Objects. Springer Briefs in Electrical and Computer Engineering, 2014, , .	0.3	8
45	Combining Unmanned Aerial Systems and Sensor Networks for Earth Observation. Remote Sensing, 2017, 9, 336.	1.8	8
46	A Real-Time Image Stabilization System Based on Fourier-Mellin Transform. Lecture Notes in Computer Science, 2004, , 376-383.	1.0	7
47	A Multiresolution Threshold Selection Method Based on Training. Lecture Notes in Computer Science, 2004, , 90-97.	1.0	6
48	Auto-Tuned Event-Based Perception Scheme for Intrusion Monitoring With UAS. IEEE Access, 2021, 9, 44840-44854.	2.6	6
49	Entropy-aware cluster-based object tracking for camera Wireless Sensor Networks. , 2012, , .		5
50	CONET Integrated Testbed Architecture. Springer Briefs in Electrical and Computer Engineering, 2014, , 23-39.	0.3	5
51	Mechanisms for efficient integration of RSSI in localization and tracking with wireless camera networks. , 2013, , .		4
52	A Technique for Stabilization of Sequences of Infrared Images Taken with Hovering UAVs. , 2006, , .		3
53	Exploiting Multi-hop Inter-beacon Measurements in RO-SLAM. Procedia Computer Science, 2014, 32, 1101-1107.	1.2	3
54	Aerial Robot Coworkers for Autonomous Localization of Missing Tools in Manufacturing Plants. , 2018, , .		3

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55	Single and Multi-UAV Relative Position Estimation Based on Natural Landmarks. , 2007, , 267-307.		3
56	Wavelet applications to forest-fire monitoring and measurement. , 0, , .		2
57	INFRARED INSPECTION OF BUILDINGS USING AUTONOMOUS HELICOPTERS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 602-607.	0.4	2
58	Localization and Tracking Using Camera-Based Wireless Sensor Networks. , 2011, , .		2
59	A learning-based thresholding method customizable to computer vision applications. Engineering Applications of Artificial Intelligence, 2015, 37, 71-90.	4.3	2
60	Integrating Internode Measurements in Sum of Gaussians Range Only SLAM. Advances in Intelligent Systems and Computing, 2014, , 473-487.	0.5	2
61	A Multiresolution-Fuzzy Method for Robust Threshold Selection in Image Segmentation. Intelligent Automation and Soft Computing, 2006, 12, 419-430.	1.6	1
62	A Robotâ€“Sensor Network Security Architecture for Monitoring Applications. IEEE Internet of Things Journal, 2022, 9, 6288-6304.	5.5	1
63	Wireless Sensor Network Connectivity and Redundancy Repairing with Mobile Robots. Studies in Computational Intelligence, 2014, , 185-204.	0.7	1
64	ROSS-LAN: RObotic Sensing Simulation Scheme for Bioinspired Robotic Bird LANding. Advances in Intelligent Systems and Computing, 2020, , 48-59.	0.5	1
65	AN INFRARED VISION SYSTEM FOR FIELD ROBOTICS APPLICATIONS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 7-21.	0.4	0
66	Measurement Integration for Localization and Tracking. Springer Briefs in Electrical and Computer Engineering, 2017, , 17-50.	0.3	0
67	Autonomous Localization of Missing Items withÂAerial Robots in an Aircraft Factory. Advances in Intelligent Systems and Computing, 2018, , 179-189.	0.5	0
68	Automatic Stabilization of Infrared Images Using Frequency Domain Methods. , 0, , .		0
69	Testbeds for Cooperating Objects. Springer Briefs in Electrical and Computer Engineering, 2014, , 5-21.	0.3	0
70	Usability Tools. Springer Briefs in Electrical and Computer Engineering, 2014, , 41-57.	0.3	0
71	Markets for Cooperating Objects. Springer Briefs in Electrical and Computer Engineering, 2014, , 99-115.	0.3	0
72	Cooperating Objects in Healthcare Applications. Springer Briefs in Electrical and Computer Engineering, 2014, , 73-98.	0.3	0

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73	Mobility of Cooperating Objects. Springer Briefs in Electrical and Computer Engineering, 2014, , 39-71.	0.3	0
74	Architectures for Target Localization and Tracking. Springer Briefs in Electrical and Computer Engineering, 2017, , 5-16.	0.3	0
75	Design of a Robot-Sensor Network Security Architecture for Monitoring Applications. Advances in Intelligent Systems and Computing, 2018, , 200-212.	0.5	0
76	Range-Only Simultaneous Localization and Mapping for Aerial Robots. , 2020, , 1-9.		0