Jose-Raul Ruiz-Sarmiento

List of Publications by Year
in descending order

31 papers	555 citations	759233 12 h-index	677142 22 g-index
33 all docs	33 docs citations	33 times ranked	541 citing authors

#	Article	IF	Citations
1	Robot@VirtualHome, an ecosystem of virtual environments and tools for realistic indoor robotic simulation. Expert Systems With Applications, 2022, 208, 117970.	7.6	10
2	Autonomous Docking of Mobile Robots by Reinforcement Learning Tackling the Sparse Reward Problem. Lecture Notes in Computer Science, 2021, , 392-403.	1.3	4
3	Improving the Head Pose Variation Problem in Face Recognition for Mobile Robots. Sensors, 2021, 21, 659.	3.8	3
4	ViMantic, a distributed robotic architecture for semantic mapping in indoor environments. Knowledge-Based Systems, 2021, 232, 107440.	7.1	10
5	Jupyter Notebooks in Undergraduate Mobile Robotics Courses: Educational Tool and Case Study. Applied Sciences (Switzerland), 2021, 11, 917.	2.5	5
6	LaLaLoc: Latent Layout Localisation in Dynamic, Unvisited Environments. , 2021, , .		6
7	A predictive model for the maintenance of industrial machinery in the context of industry 4.0. Engineering Applications of Artificial Intelligence, 2020, 87, 103289.	8.1	100
8	Automatic Waypoint Generation to Improve Robot Navigation Through Narrow Spaces. Sensors, 2020, 20, 240.	3.8	21
9	A Face Recognition System for Assistive Robots. , 2020, , .		3
10	From Object Detection to Room Categorization in Robotics. , 2020, , .		7
11	Olfaction, Vision, and Semantics for Mobile Robots. Results of the IRO Project. Sensors, 2019, 19, 3488.	3.8	5
12	Ontology-based conditional random fields for object recognition. Knowledge-Based Systems, 2019, 168, 100-108.	7.1	15
13	Integration of CNN into a Robotic Architecture to Build Semantic Maps of Indoor Environments. Lecture Notes in Computer Science, 2019, , 313-324.	1.3	11
14	Automatic Multi-Sensor Extrinsic Calibration For Mobile Robots. IEEE Robotics and Automation Letters, 2019, 4, 2862-2869.	5.1	17
15	Intrinsic Calibration of Depth Cameras for Mobile Robots Using a Radial Laser Scanner. Lecture Notes in Computer Science, 2019, , 659-671.	1.3	3
16	A Semantic-Based Gas Source Localization with a Mobile Robot Combining Vision and Chemical Sensing. Sensors, 2018, 18, 4174.	3.8	32
17	Context-aware 3D object anchoring for mobile robots. Robotics and Autonomous Systems, 2018, 110, 12-32.	5.1	14
18	Towards a Semantic Gas Source Localization Under Uncertainty. Communications in Computer and Information Science, 2018, , 504-516.	0.5	3

#	Article	IF	Citations
19	Robot@Home, a robotic dataset for semantic mapping of home environments. International Journal of Robotics Research, 2017, 36, 131-141.	8.5	55
20	Building Multiversal Semantic Maps for Mobile Robot Operation. Knowledge-Based Systems, 2017, 119, 257-272.	7.1	60
21	Online context-based object recognition for mobile robots. , 2017, , .		4
22	A survey on learning approaches for Undirected Graphical Models. Application to scene object recognition. International Journal of Approximate Reasoning, 2017, 83, 434-451.	3.3	14
23	EXPERIENCES ON A MOTIVATIONAL LEARNING APPROACH FOR ROBOTICS IN UNDERGRADUATE COURSES. INTED Proceedings, 2017, , .	0.0	1
24	An Automated Surveying and Marking System for Continuous Settingâ€•out of Tunnels. Computer-Aided Civil and Infrastructure Engineering, 2016, 31, 219-228.	9.8	6
25	ExCITE Project: A Review of Forty-Two Months of Robotic Telepresence Technology Evolution. Presence: Teleoperators and Virtual Environments, 2016, 25, 204-221.	0.6	38
26	Probability and Common-Sense: Tandem Towards Robust Robotic Object Recognition in Ambient Assisted Living. Lecture Notes in Computer Science, 2016, , 3-8.	1.3	1
27	Joint categorization of objects and rooms for mobile robots. , 2015, , .		11
28	OLT: A Toolkit for Object Labeling applied to robotic RGB-D datasets. , 2015, , .		7
29	Scene object recognition for mobile robots through Semantic Knowledge and Probabilistic Graphical Models. Expert Systems With Applications, 2015, 42, 8805-8816.	7.6	18
30	Exploiting semantic knowledge for robot object recognition. Knowledge-Based Systems, 2015, 86, 131-142.	7.1	32
31	Technical improvements of the Giraff telepresence robot based on users' evaluation. , 2012, , .		34