

Rafael Garcia Campos

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

1,656
citations

24
h-index

37
g-index

112
ext. papers

2,102
ext. citations

3.6
avg, IF

4.83
L-index

#	Paper	IF	Citations
93	Computerized analysis of pigmented skin lesions: a review. <i>Artificial Intelligence in Medicine</i> , 2012 , 56, 69-90	7.4	234
92	Visual inspection of hydroelectric dams using an autonomous underwater vehicle. <i>Journal of Field Robotics</i> , 2010 , 27, 759-778	6.7	77
91	Automatic differentiation of melanoma from dysplastic nevi. <i>Computerized Medical Imaging and Graphics</i> , 2015 , 43, 44-52	7.6	63
90	Efficient three-dimensional scene modeling and mosaicing. <i>Journal of Field Robotics</i> , 2009 , 26, 759-788	6.7	59
89	Automatic Visual Bag-of-Words for Online Robot Navigation and Mapping. <i>IEEE Transactions on Robotics</i> , 2012 , 28, 886-898	6.5	58
88	Functionalization of SBA-15 by an acid-catalyzed approach: A surface characterization study. <i>Microporous and Mesoporous Materials</i> , 2007 , 106, 129-139	5.3	55
87	Tectonic structure, evolution, and the nature of oceanic core complexes and their detachment fault zones (13°20'N and 13°30'N, Mid Atlantic Ridge). <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 1451-1482	3.6	54
86	Image-Based Coral Reef Classification and Thematic Mapping. <i>Remote Sensing</i> , 2013 , 5, 1809-1841	5	54
85	Structure, temporal evolution, and heat flux estimates from the Lucky Strike deep-sea hydrothermal field derived from seafloor image mosaics. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13, n/a-n/a	3.6	51
84	An integrated view of the methane system in the pockmarks at Vestnesa Ridge, 79°N. <i>Marine Geology</i> , 2017 , 390, 282-300	3.3	48
83	Globally aligned photomosaic of the Lucky Strike hydrothermal vent field (Mid-Atlantic Ridge, 37°18.5'N): Release of georeferenced data, mosaic construction, and viewing software. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	45
82	Positioning an underwater vehicle through image mosaicking		36
81	A Novel Blending Technique for Underwater Gigamosaicing. <i>IEEE Journal of Oceanic Engineering</i> , 2012 , 37, 626-644	3.3	35
80	A NEW COLOR CORRECTION METHOD FOR UNDERWATER IMAGING. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , XL-5/W5, 25-32	2.5	35
79	Quantifying diffuse and discrete venting at the Tour Eiffel vent site, Lucky Strike hydrothermal field. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13, n/a-n/a	3.6	34
78	Autonomous Underwater Navigation and Optical Mapping in Unknown Natural Environments. <i>Sensors</i> , 2016 , 16,	3.8	32
77	A new global alignment approach for underwater optical mapping. <i>Ocean Engineering</i> , 2011 , 38, 1207-1219	3.9	31

76	A surface reconstruction method for in-detail underwater 3D optical mapping. <i>International Journal of Robotics Research</i> , 2015 , 34, 64-89	5.7	30
75	Automatic segmentation of fish using deep learning with application to fish size measurement. <i>ICES Journal of Marine Science</i> , 2020 , 77, 1354-1366	2.7	30
74	Multi-scale underwater descattering 2016 ,		29
73	Mapping the Moon: Using a lightweight AUV to survey the site of the 17th century ship [La Lune] 2013 ,		28
72	Fast topology estimation for image mosaicing using adaptive information thresholding. <i>Robotics and Autonomous Systems</i> , 2013 , 61, 125-136	3.5	26
71	A novel method for color correction in epiluminescence microscopy. <i>Computerized Medical Imaging and Graphics</i> , 2011 , 35, 646-52	7.6	26
70	Color transfer for underwater dehazing and depth estimation 2017 ,		25
69	Detection of interest points in turbid underwater images 2011 ,		24
68	A new total body scanning system for automatic change detection in multiple pigmented skin lesions. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 317-38	11.7	23
67	Efficient image mosaicing for multi-robot visual underwater mapping. <i>Pattern Recognition Letters</i> , 2014 , 46, 20-26	4.7	22
66	Hydrothermal activity along the slow-spreading Lucky Strike ridge segment (Mid-Atlantic Ridge): Distribution, heatflux, and geological controls. <i>Earth and Planetary Science Letters</i> , 2015 , 431, 173-185	5.3	21
65	A motion compensated filtering approach to remove sunlight flicker in shallow water images 2008 ,		20
64	2011 ,		19
63	Augmented state-extended Kalman filter combined framework for topology estimation in large-area underwater mapping. <i>Journal of Field Robotics</i> , 2010 , 27, 656-674	6.7	19
62	First direct observation of coseismic slip and seafloor rupture along a submarine normal fault and implications for fault slip history. <i>Earth and Planetary Science Letters</i> , 2016 , 450, 96-107	5.3	17
61	Locally Adaptive Color Correction for Underwater Image Dehazing and Matching 2017 ,		17
60	Lucky Strike seamount: Implications for the emplacement and rifting of segment-centered volcanoes at slow spreading mid-ocean ridges. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 4157-4179	2.6	16
59	A randomized, controlled, single-blind, 6-month pilot study to evaluate the efficacy of MS-Line!: a cognitive rehabilitation programme for patients with multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2015 , 21, 1332-43	5	12

58	Surface reconstruction methods for the recovery of 3D models from underwater interest areas 2011 ,		12
57	On-line visual vocabularies for robot navigation and mapping 2009 ,		12
56	Automatic scale estimation of structure from motion based 3D models using laser scalers in underwater scenarios. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020 , 159, 13-25	11.8	12
55	First attempts towards the restoration of gorgonian populations on the Mediterranean continental shelf. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2019 , 29, 1278-1284	2.6	11
54	Additional evidence for fisheries acoustics: small cameras and angling gear provide tilt angle distributions and other relevant data for mackerel surveys. <i>ICES Journal of Marine Science</i> , 2016 , 73, 2009-2019 ¹¹	2.7	11
53	Towards Detecting Changes in Underwater Image Sequences 2008 ,		11
52	Online Robust 3D Mapping Using Structure from Motion Cues 2008 ,		10
51	Quality control of CFRP by means of digital image processing and statistical point pattern analysis. <i>Composites Science and Technology</i> , 2007 , 67, 2438-2446	8.6	10
50	Perspectives In Visual Imaging for Marine Biology and Ecology: From Acquisition to Understanding. <i>Oceanography and Marine Biology</i> , 2016 , 1-73		9
49	Image Blending Techniques and their Application in Underwater Mosaicing. <i>SpringerBriefs in Computer Science</i> , 2014 ,	0.4	9
48	Exploring the Seafloor with Underwater Robots 2017 , 75-99		8
47	Splat-based surface reconstruction from defect-laden point sets. <i>Graphical Models</i> , 2013 , 75, 346-361	0.9	8
46	Automated classification and thematic mapping of bacterial mats in the North Sea 2013 ,		8
45	An Improved Skin Lesion Matching Scheme in Total Body Photography. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019 , 23, 586-598	7.2	7
44	A New Approach to Pose Detection using a Trinocular Stereovision System. <i>Real Time Imaging</i> , 2002 , 8, 73-93		7
43	Classification of melanoma lesions using sparse coded features and random forests 2016 ,		7
42	Efficient 3D Scene Modeling and Mosaicing. <i>Springer Tracts in Advanced Robotics</i> , 2013 ,	0.5	6
41	Attracting talent to increase interest for engineering among secondary school students 2011 ,		6

40	Identification of Suitable Interest Points Using Geometric and Photometric Cues in Motion Video for Efficient 3-D Environmental Modeling. <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , 2007 ,		5
39	Geostatistics for Context-Aware Image Classification. <i>Lecture Notes in Computer Science</i> , 2015 , 228-239	0.9	5
38	Sea Mining Exploration With an UVMS: Experimental Validation of the Control and Perception Framework. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 26, 1635-1645	5.5	5
37	Scale Accuracy Evaluation of Image-Based 3D Reconstruction Strategies Using Laser Photogrammetry. <i>Remote Sensing</i> , 2019 , 11, 2093	5	4
36	Efficient Topology Estimation for Large Scale Optical Mapping. <i>Springer Tracts in Advanced Robotics</i> , 2013 ,	0.5	4
35	Fast Underwater Image Mosaicing through Submapping. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2017 , 85, 167-187	2.9	4
34	A semi-global color correction for underwater image restoration 2017 ,		4
33	Mission-time 3D reconstruction with quality estimation 2017 ,		4
32	3D Simplification Methods and Large Scale Terrain Tiling. <i>Remote Sensing</i> , 2020 , 12, 437	5	4
31	Ensemble approach for differentiation of malignant melanoma 2015 ,		3
30	Online underwater optical mapping for trajectories with gaps. <i>Intelligent Service Robotics</i> , 2016 , 9, 217-228		3
29	Automated Detection of Underwater Military Munitions Using Fusion of 2D and 2.5D Features From Optical Imagery. <i>Marine Technology Society Journal</i> , 2014 , 48, 61-71	0.5	3
28	Graph theory approach for match reduction in image mosaicing. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014 , 31, 773-82	1.8	3
27	Inspección visual subacuática mediante robótica submarina. <i>RIAI - Revista Iberoamericana De Automatica E Informatica Industrial</i> , 2012 , 9, 34-45	1.5	3
26	Challenges of close-range underwater optical mapping 2011 ,		3
25	Omnidirectional Multicamera Video Stitching Using Depth Maps. <i>IEEE Journal of Oceanic Engineering</i> , 2020 , 45, 1337-1352	3.3	3
24	A new cognitive rehabilitation programme for patients with multiple sclerosis: the 'MS-line! Project'. <i>Multiple Sclerosis Journal</i> , 2015 , 21, 1344-8	5	2
23	Performing submarine field survey without scuba gear using GIS-like mapping in a Virtual Reality environment 2019 ,		2

22	Monocular-based 3-D seafloor reconstruction and ortho-mosaicing by piecewise planar representation		2
21	ROV-Aided Dam Inspection: Practical Results. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003 , 36, 271-274		2
20	State of the Art in Image Blending Techniques. <i>SpringerBriefs in Computer Science</i> , 2014 , 35-60	0.4	2
19	Match Selection in Batch Mosaicing Using Mutual Information. <i>Lecture Notes in Computer Science</i> , 2009 , 104-111	0.9	2
18	A New Global Alignment Method for Feature Based Image Mosaicing. <i>Springer Tracts in Advanced Robotics</i> , 2013 , 25-39	0.5	2
17	2019 ,		2
16	Construcci3n autom3tica de ortofotomapas: una aproximaci3n fotom3trica. <i>RIAI - Revista Iberoamericana De Automatica E Informatica Industrial</i> , 2013 , 10, 104-115	1.5	1
15	Efficient image mosaicing for optical underwater mapping 2012 ,		1
14	Proposal of a parallel architecture for a motion detection algorithm 2004 ,		1
13	Interest point characterisation through textural analysis for rejection of bad correspondences. <i>Pattern Recognition Letters</i> , 2005 , 26, 1587-1596	4.7	1
12	Autonomous Seabed Inspection for Environmental Monitoring. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 27-39	0.4	1
11	Immersive Touring for Marine Archaeology. Application of a New Compact Omnidirectional Camera to Mapping the Gnalishipwreck with an AUV. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 183-195	0.4	1
10	Surface meshing of underwater maps from highly defective point sets. <i>Journal of Field Robotics</i> , 2018 , 35, 491-515	6.7	0
9	Shallow-water hydrothermalism at Milos (Greece): Nature, distribution, heat fluxes and impact on ecosystems. <i>Marine Geology</i> , 2021 , 438, 106521	3.3	0
8	Application Challenges of Underwater Vision 2017 , 133-160		
7	Mismatched image identification using histogram of loop closure error for feature-based optical mapping. <i>International Journal of Intelligent Robotics and Applications</i> , 2019 , 3, 196-206	1.7	
6	Acquisition and visualization techniques for narrow spectral color imaging. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2013 , 30, 1039-52	1.8	
5	Sensorial and Navigation Systems for a Mobile Robot (Roger). <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1998 , 31, 279-284		

- 4 Specialized processor for 3D real-time tracking of moving objects using the knowledge of their chromatic components **1998**, 3365, 242
- 3 Understanding Color **2020**, 99-111
- 2 Underwater 2D Mosaicing. *SpringerBriefs in Computer Science*, **2014**, 15-33 0.4
- 1 Proposed Framework. *SpringerBriefs in Computer Science*, **2014**, 61-78 0.4