

Rafael Garcia Campos

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3200464/rafael-garcia-campos-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
92	Shallow-water hydrothermalism at Milos (Greece): Nature, distribution, heat fluxes and impact on ecosystems. <i>Marine Geology</i> , 2021 , 438, 106521	3.3	0
91	Understanding Color 2020 , 99-111		
90	3D Simplification Methods and Large Scale Terrain Tiling. <i>Remote Sensing</i> , 2020 , 12, 437	5	4
89	Automatic scale estimation of structure from motion based 3D models using laser scalars in underwater scenarios. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020 , 159, 13-25	11.8	12
88	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
87	Omnidirectional Multicamera Video Stitching Using Depth Maps. <i>IEEE Journal of Oceanic Engineering</i> , 2020 , 45, 1337-1352	3.3	3
86	Scale Accuracy Evaluation of Image-Based 3D Reconstruction Strategies Using Laser Photogrammetry. <i>Remote Sensing</i> , 2019 , 11, 2093	5	4
85	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
84	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	
83	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
82	Performing submarine field survey without scuba gear using GIS-like mapping in a Virtual Reality environment 2019 ,		2
81	2019 ,		2
80	Surface meshing of underwater maps from highly defective point sets. <i>Journal of Field Robotics</i> , 2018 , 35, 491-515	6.7	0
79	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 , 183-194	0.4	1
78	Exploring the Seafloor with Underwater Robots 2017 , 75-99		8
77	Application Challenges of Underwater Vision 2017 , 133-160		

76	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
75	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
74	Fast Underwater Image Mosaicing through Submapping. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2017 , 85, 167-187	2.9	4
73	Color transfer for underwater dehazing and depth estimation 2017 ,		25
72	Locally Adaptive Color Correction for Underwater Image Dehazing and Matching 2017 ,		17
71	A semi-global color correction for underwater image restoration 2017 ,		4
70	Mission-time 3D reconstruction with quality estimation 2017 ,		4
69	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
68	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
67	Online underwater optical mapping for trajectories with gaps. <i>Intelligent Service Robotics</i> , 2016 , 9, 217-229	2.5	3
66	Perspectives In Visual Imaging for Marine Biology and Ecology: From Acquisition to Understanding. <i>Oceanography and Marine Biology</i> , 2016 , 1-73		9
65	Autonomous Seabed Inspection for Environmental Monitoring. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 27-39	0.4	1
64	Autonomous Underwater Navigation and Optical Mapping in Unknown Natural Environments. <i>Sensors</i> , 2016 , 16,	3.8	32
63	Multi-scale underwater descattering 2016 ,		29
62	Classification of melanoma lesions using sparse coded features and random forests 2016 ,		7
61	Ensemble approach for differentiation of malignant melanoma 2015 ,		3
60	Automatic differentiation of melanoma from dysplastic nevi. <i>Computerized Medical Imaging and Graphics</i> , 2015 , 43, 44-52	7.6	63
59	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

58	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
57	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
56	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
55	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
54	Geostatistics for Context-Aware Image Classification. <i>Lecture Notes in Computer Science</i> , 2015 , 228-239	0.9	5
53	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
52	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
51	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
50	Efficient image mosaicing for multi-robot visual underwater mapping. <i>Pattern Recognition Letters</i> , 2014 , 46, 20-26	4.7	22
49	Image Blending Techniques and their Application in Underwater Mosaicing. <i>SpringerBriefs in Computer Science</i> , 2014 ,	0.4	9
48	State of the Art in Image Blending Techniques. <i>SpringerBriefs in Computer Science</i> , 2014 , 35-60	0.4	2
47	Underwater 2D Mosaicing. <i>SpringerBriefs in Computer Science</i> , 2014 , 15-33	0.4	
46	Proposed Framework. <i>SpringerBriefs in Computer Science</i> , 2014 , 61-78	0.4	
45	Efficient Topology Estimation for Large Scale Optical Mapping. <i>Springer Tracts in Advanced Robotics</i> , 2013 ,	0.5	4
44	Splat-based surface reconstruction from defect-laden point sets. <i>Graphical Models</i> , 2013 , 75, 346-361	0.9	8
43	Fast topology estimation for image mosaicing using adaptive information thresholding. <i>Robotics and Autonomous Systems</i> , 2013 , 61, 125-136	3.5	26
42	Construcción automática de ortofotomapas: una aproximación fotométrica. <i>RIAI - Revista Iberoamericana De Automatica E Informatica Industrial</i> , 2013 , 10, 104-115	1.5	1
41	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	

40	Efficient 3D Scene Modeling and Mosaicing. <i>Springer Tracts in Advanced Robotics</i> , 2013 ,	0.5	6
39	Mapping the Moon: Using a lightweight AUV to survey the site of the 17th century ship "La Lune" 2013 ,		28
38	Automated classification and thematic mapping of bacterial mats in the North Sea 2013 ,		8
37	Image-Based Coral Reef Classification and Thematic Mapping. <i>Remote Sensing</i> , 2013 , 5, 1809-1841	5	54
36	A New Global Alignment Method for Feature Based Image Mosaicing. <i>Springer Tracts in Advanced Robotics</i> , 2013 , 25-39	0.5	2
35	Automatic Visual Bag-of-Words for Online Robot Navigation and Mapping. <i>IEEE Transactions on Robotics</i> , 2012 , 28, 886-898	6.5	58
34	Computerized analysis of pigmented skin lesions: a review. <i>Artificial Intelligence in Medicine</i> , 2012 , 56, 69-90	7.4	234
33	Inspecci3n visual subacu3tica mediante rob3tica submarina. <i>RIAI - Revista Iberoamericana De Automatica E Informatica Industrial</i> , 2012 , 9, 34-45	1.5	3
32	A Novel Blending Technique for Underwater Gigamosaicing. <i>IEEE Journal of Oceanic Engineering</i> , 2012 , 37, 626-644	3.3	35
31	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
30	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
29	Efficient image mosaicing for optical underwater mapping 2012 ,		1
28	A novel method for color correction in epiluminescence microscopy. <i>Computerized Medical Imaging and Graphics</i> , 2011 , 35, 646-52	7.6	26
27	Detection of interest points in turbid underwater images 2011 ,		24
26	2011 ,		19
25	Surface reconstruction methods for the recovery of 3D models from underwater interest areas 2011 ,		12
24	Challenges of close-range underwater optical mapping 2011 ,		3
23	A new global alignment approach for underwater optical mapping. <i>Ocean Engineering</i> , 2011 , 38, 1207-1219	3.9	31

22	Attracting talent to increase interest for engineering among secondary school students 2011 ,		6
21	Visual inspection of hydroelectric dams using an autonomous underwater vehicle. <i>Journal of Field Robotics</i> , 2010 , 27, 759-778	6.7	77
20	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
19	On-line visual vocabularies for robot navigation and mapping 2009 ,		12
18	Efficient three-dimensional scene modeling and mosaicing. <i>Journal of Field Robotics</i> , 2009 , 26, 759-788	6.7	59
17	Match Selection in Batch Mosaicing Using Mutual Information. <i>Lecture Notes in Computer Science</i> , 2009 , 104-111	0.9	2
16	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
15	Online Robust 3D Mapping Using Structure from Motion Cues 2008 ,		10
14	Towards Detecting Changes in Underwater Image Sequences 2008 ,		11
13	A motion compensated filtering approach to remove sunlight flicker in shallow water images 2008 ,		20
12	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
11	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
10	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
9	Interest point characterisation through textural analysis for rejection of bad correspondences. <i>Pattern Recognition Letters</i> , 2005 , 26, 1587-1596	4.7	1
8	Proposal of a parallel architecture for a motion detection algorithm 2004 ,		1
7	ROV-Aided Dam Inspection: Practical Results. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003 , 36, 271-274		2
6	A New Approach to Pose Detection using a Trinocular Stereovision System. <i>Real Time Imaging</i> , 2002 , 8, 73-93		7
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	Monocular-based 3-D seafloor reconstruction and ortho-mosaicing by piecewise planar representation	2
2	Positioning an underwater vehicle through image mosaicking	36
1	A NEW COLOR CORRECTION METHOD FOR UNDERWATER IMAGING. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives,XL-5/W5</i> , 25-32	2.5 35