

Joaquim Salvi

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

5,698
citations

270111

25
h-index

145109

60
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114
all docs

114
docs citations

114
times ranked

4362
citing authors

#	ARTICLE	IF	CITATIONS
1	Transductive Transfer Learning for Domain Adaptation in Brain Magnetic Resonance Image Segmentation. <i>Frontiers in Neuroscience</i> , 2021, 15, 608808.	1.4	5
2	A fully convolutional neural network for new T2-w lesion detection in multiple sclerosis. <i>NeuroImage: Clinical</i> , 2020, 25, 102149.	1.4	40
3	Multiple Sclerosis Lesion Synthesis in MRI Using an Encoder-Decoder U-NET. <i>IEEE Access</i> , 2019, 7, 25171-25184.	2.6	46
4	One-shot domain adaptation in multiple sclerosis lesion segmentation using convolutional neural networks. <i>NeuroImage: Clinical</i> , 2019, 21, 101638.	1.4	91
5	GridDS: a hybrid data structure for residue computation in point set matching. <i>Machine Vision and Applications</i> , 2019, 30, 291-307.	1.7	2
6	A supervised framework with intensity subtraction and deformation field features for the detection of new T2-w lesions in multiple sclerosis. <i>NeuroImage: Clinical</i> , 2018, 17, 607-615.	1.4	39
7	A collection of challenging motion segmentation benchmark datasets. <i>Pattern Recognition</i> , 2017, 61, 1-14.	5.1	6
8	3D registration on mobile platforms using an accelerometer. , 2017, , .		0
9	Semi-automatic tool for motion annotation on complex video sequences. <i>Electronics Letters</i> , 2016, 52, 602-604.	0.5	2
10	An efficient surface registration using smartphone. <i>Machine Vision and Applications</i> , 2016, 27, 559-576.	1.7	8
11	Toward persistent autonomous intervention in a subsea panel. <i>Autonomous Robots</i> , 2016, 40, 1279-1306.	3.2	33
12	Fourier-based Registration for Robust Forward-looking Sonar Mosaicing in Low-visibility Underwater Environments. <i>Journal of Field Robotics</i> , 2015, 32, 123-151.	3.2	102
13	A Qualitative Review on 3D Coarse Registration Methods. <i>ACM Computing Surveys</i> , 2015, 47, 1-36.	16.1	76
14	A study on the robustness of shape descriptors to common scanning artifacts. , 2015, , .		3
15	A New Trajectory Based Motion Segmentation Benchmark Dataset (UdG-MS15). <i>Lecture Notes in Computer Science</i> , 2015, , 463-470.	1.0	2
16	Dynamic 3D shape of the plantar surface of the foot using coded structured light: a technical report. <i>Journal of Foot and Ankle Research</i> , 2014, 7, 5.	0.7	12
17	Structured light self-calibration with vanishing points. <i>Machine Vision and Applications</i> , 2014, 25, 489-500.	1.7	30
18	SLAM with SC-PHD Filters: An Underwater Vehicle Application. <i>IEEE Robotics and Automation Magazine</i> , 2014, 21, 38-45.	2.2	15

#	ARTICLE	IF	CITATIONS
19	Rotation Estimation for Two-Dimensional Forward-Looking Sonar Mosaicing. Advances in Intelligent Systems and Computing, 2014, , 69-84.	0.5	4
20	Joint estimation of segmentation and structure from motion. Computer Vision and Image Understanding, 2013, 117, 113-129.	3.0	17
21	Long-term mapping and localization using feature stability histograms. Robotics and Autonomous Systems, 2013, 61, 1539-1558.	3.0	17
22	SLAM With Dynamic Targets via Single-Cluster PHD Filtering. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 543-552.	7.3	78
23	One-shot absolute pattern for dense reconstruction using DeBruijn coding and Windowed Fourier Transform. Optics Communications, 2013, 291, 70-78.	1.0	9
24	Automatic detection of underwater chain links using a forward-looking sonar. , 2013, , .		23
25	Single cluster PHD SLAM: Application to autonomous underwater vehicles using stereo vision. , 2013, , .		6
26	Evaluation of registration methods on two-dimensional forward-looking sonar imagery. , 2013, , .		30
27	Vertical edge-based mapping using range-augmented omnidirectional vision sensor. IET Computer Vision, 2013, 7, 135-143.	1.3	6
28	Projector-camera calibration for 3D reconstruction using vanishing points. , 2012, , .		4
29	SLAM with single cluster PHD filters. , 2012, , .		15
30	Fourier-based registrations for two-dimensional forward-looking sonar image mosaicing. , 2012, , .		46
31	PANDORA: Persistent Autonomy through Learning, Adaptation, Observation and Re-planning. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 367-372.	0.4	6
32	A novel Structured Light method for one-shot dense reconstruction. , 2012, , .		5
33	Hierarchical Normal Space Sampling to speed up point cloud coarse matching. Pattern Recognition Letters, 2012, 33, 2127-2133.	2.6	28
34	Stereo computation combining structured light and passive stereo matching. Optics Communications, 2012, 285, 1017-1022.	1.0	15
35	Simultaneous motion segmentation and Structure from Motion. , 2011, , .		4
36	Indoor SLAM using a range-augmented omnidirectional vision. , 2011, , .		6

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37	Feature extraction for underwater visual SLAM. , 2011, , .		33
38	Appearance-based mapping and localization for mobile robots using a feature stability histogram. Robotics and Autonomous Systems, 2011, 59, 840-857.	3.0	24
39	Automatic window size selection in Windowed Fourier Transform for 3D reconstruction using adapted mother wavelets. Optics Communications, 2011, 284, 2797-2807.	1.0	28
40	Enhanced Local Subspace Affinity for feature-based motion segmentation. Pattern Recognition, 2011, 44, 454-470.	5.1	36
41	Reconstruction of non-rigid 3D shapes from stereo-motion. Pattern Recognition Letters, 2011, 32, 1020-1028.	2.6	9
42	A dynamic 3D foot reconstruction system. , 2011, 2011, 599-602.		4
43	Adaptive Motion Segmentation Algorithm Based on the Principal Angles Configuration. Lecture Notes in Computer Science, 2011, , 15-26.	1.0	13
44	SLAM based Selective Submap Joining for the Victoria Park Dataset. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 557-562.	0.4	1
45	Submapping SLAM based on acoustic data from a 6-DOF AUV. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 16-21.	0.4	2
46	Efficient multiple phase shift patterns for dense 3D acquisition in structured light scanning. Image and Vision Computing, 2010, 28, 1255-1266.	2.7	61
47	A state of the art in structured light patterns for surface profilometry. Pattern Recognition, 2010, 43, 2666-2680.	5.1	691
48	Feature based slam using side-scan salient objects. , 2010, , .		14
49	Calibration of optical camera coupled to acoustic multibeam for underwater 3D scene reconstruction. , 2010, , .		21
50	Selective Submap Joining for underwater large scale 6-DOF SLAM. , 2010, , .		7
51	Appearance-based mapping and localisation using feature stability histograms. Electronics Letters, 2010, 46, 1120.	0.5	10
52	Local map update for large scale SLAM. Electronics Letters, 2010, 46, 564.	0.5	5
53	Acoustic-Based Techniques for Autonomous Underwater Vehicle Localization. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2010, 224, 293-307.	0.3	17
54	Absolute phase mapping for one-shot dense pattern projection. , 2010, , .		8

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55	New Trends in Motion Segmentation. , 2009, , .		7
56	Enhanced Model Selection for motion segmentation. , 2009, , .		4
57	Rank estimation of trajectory matrix in motion segmentation. Electronics Letters, 2009, 45, 540.	0.5	1
58	Efficient and Low-Cost 3D Structured Light System Based on a Modified Number-Theoretic Approach. Eurasip Journal on Advances in Signal Processing, 2009, 2010, .	1.0	19
59	Registration of surfaces minimizing error propagation for a one-shot multi-slit hand-held scanner. Pattern Recognition, 2008, 41, 2055-2067.	5.1	18
60	Visual SLAM for 3D large-scale seabed acquisition employing underwater vehicles. , 2008, , .		8
61	A particle filter approach for AUV localization. , 2008, , .		35
62	Visual SLAM for underwater vehicles using video velocity log and natural landmarks. , 2008, , .		25
63	Overview of surface registration techniques including loop minimization for three-dimensional modeling and visual inspection. Journal of Electronic Imaging, 2008, 17, 031103.	0.5	5
64	Adaptive mission plan diagnosis and repair for fault recovery in autonomous underwater vehicles. , 2008, , .		10
65	3D Large-Scale Seabed Reconstruction for UUV Simultaneous Localization and Mapping. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 19-24.	0.4	2
66	2D virtual texture on 3D real object with coded structured light. , 2008, , .		4
67	Design Patterns for Combining Social and Individual Intelligences on Modular-Based Agents. Lecture Notes in Computer Science, 2008, , 70-77.	1.0	1
68	Automatic texture mapping on real 3D model. , 2007, , .		3
69	Detection of surfaces for projection of texture. , 2007, , .		0
70	Overview of 3D registration techniques including loop minimization for the complete acquisition of large manufactured parts and complex environments. , 2007, , .		1
71	Catadioptric single-shot rangefinder for textured map building in robot navigation. IET Computer Vision, 2007, 1, 43-53.	1.3	6
72	A review of recent range image registration methods with accuracy evaluation. Image and Vision Computing, 2007, 25, 578-596.	2.7	541

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73	A multi-agent architecture with cooperative fuzzy control for a mobile robot. Robotics and Autonomous Systems, 2007, 55, 881-891.	3.0	50
74	Summarizing Image/Surface Registration for 6DOF Robot/Camera Pose Estimation. Lecture Notes in Computer Science, 2007, , 105-112.	1.0	3
75	Optimizing plane-to-plane positioning tasks by image-based visual servoing and structured light. , 2006, 22, 1000-1010.		29
76	A refined range image registration technique for multi-stripe laser scanner. , 2006, 6070, 246.		3
77	Review of CMOS image sensors. Microelectronics Journal, 2006, 37, 433-451.	1.1	445
78	Modelling and accuracy estimation of a new omnidirectional depth computation sensor. Pattern Recognition Letters, 2006, 27, 843-853.	2.6	22
79	A Computer Vision Sensor for Panoramic Depth Perception. Lecture Notes in Computer Science, 2005, , 153-160.	1.0	0
80	Registration of Moving Surfaces by Means of One-Shot Laser Projection. Lecture Notes in Computer Science, 2005, , 145-152.	1.0	2
81	Optimised De Bruijn patterns for one-shot shape acquisition. Image and Vision Computing, 2005, 23, 707-720.	2.7	126
82	Accuracy estimation of a new omnidirectional 3D vision sensor. , 2005, , .		4
83	Robust decoupled visual servoing based on structured light. , 2005, , .		7
84	Range image registration for industrial inspection. , 2005, , .		12
85	Surface registration from range image fusion. , 2004, , .		8
86	Pattern codification strategies in structured light systems. Pattern Recognition, 2004, 37, 827-849.	5.1	976
87	Codesign methodology for computer vision applications. Microprocessors and Microsystems, 2004, 28, 303-316.	1.8	3
88	A new optimised De Bruijn coding strategy for structured light patterns. , 2004, , .		21
89	Laser stripe peak detector for 3D scanners. A FIR filter approach. , 2004, , .		71
90	Uncalibrated reconstruction: an adaptation to structured light vision. Pattern Recognition, 2003, 36, 1631-1644.	5.1	32

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91	A review on egomotion by means of differential epipolar geometry applied to the movement of a mobile robot. Pattern Recognition, 2003, 36, 2927-2944.	5.1	30
92	Overall view regarding fundamental matrix estimation. Image and Vision Computing, 2003, 21, 205-220.	2.7	164
93	Calibration of A Structured Light-Based Stereo Catadioptric Sensor. , 2003, , .		8
94	Robust Segmentation and Decoding of a-Grid Pattern for Structured Light. Lecture Notes in Computer Science, 2003, , 689-696.	1.0	5
95	A New Approach to Pose Detection using a Trinocular Stereovision System. Real Time Imaging, 2002, 8, 73-93.	1.6	11
96	A comparative review of camera calibrating methods with accuracy evaluation. Pattern Recognition, 2002, 35, 1617-1635.	5.1	389
97	Recent progress in coded structured light as a technique to solve the correspondence problem. Pattern Recognition, 1998, 31, 963-982.	5.1	363
98	A robust-coded pattern projection for dynamic 3D scene measurement. Pattern Recognition Letters, 1998, 19, 1055-1065.	2.6	151
99	Behaviours implemented using a vision system based on coded light projection. , 1998, , .		1
100	Recent progress in structured light in order to solve the correspondence problem in stereovision. , 0, , .		26
101	Uncalibrated vision based on structured light. , 0, , .		14
102	A survey addressing the fundamental matrix estimation problem. , 0, , .		11
103	Differential epipolar constraint in mobile robot egomotion estimation. , 0, , .		4
104	A review of laser scanning three-dimensional digitisers. , 0, , .		28
105	Overview of coded light projection techniques for automatic 3D profiling. , 0, , .		56
106	Implementation of a robust coded structured light technique for dynamic 3D measurements. , 0, , .		9
107	Plane-to-plane positioning from image-based visual servoing and structured light. , 0, , .		6
108	Omnidirectional Depth Computation from a Single Image. , 0, , .		16

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109	A Camera-Projector System for Robot Positioning by Visual Servoing. , 0, , .		5
110	An approach to visual servoing based on coded light. , 0, , .		21