

# Rafael Muoz-Salinas

## List of Publications by Citations

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67

papers

2,365

citations

21

h-index

48

g-index

69

ext. papers

3,222

ext. citations

4.1

avg, IF

5.52

L-index

#	Paper	IF	Citations
67	Automatic generation and detection of highly reliable fiducial markers under occlusion. <i>Pattern Recognition</i> , <b>2014</b> , 47, 2280-2292	7.7	888
66	Speeded up detection of squared fiducial markers. <i>Image and Vision Computing</i> , <b>2018</b> , 76, 38-47	3.7	220
65	Generation of fiducial marker dictionaries using Mixed Integer Linear Programming. <i>Pattern Recognition</i> , <b>2016</b> , 51, 481-491	7.7	201
64	People detection and tracking using stereo vision and color. <i>Image and Vision Computing</i> , <b>2007</b> , 25, 995-1007	3.7	104
63	A novel method to look for the hysteresis thresholds for the Canny edge detector. <i>Pattern Recognition</i> , <b>2011</b> , 44, 1201-1211	7.7	66
62	Polygonal approximation of digital planar curves through break point suppression. <i>Pattern Recognition</i> , <b>2010</b> , 43, 14-25	7.7	61
61	Depth silhouettes for gesture recognition. <i>Pattern Recognition Letters</i> , <b>2008</b> , 29, 319-329	4.7	57
60	Mapping and localization from planar markers. <i>Pattern Recognition</i> , <b>2018</b> , 73, 158-171	7.7	55
59	On candidates selection for hysteresis thresholds in edge detection. <i>Pattern Recognition</i> , <b>2009</b> , 42, 1284-1296	7.7	45
58	SPM-SLAM: Simultaneous localization and mapping with squared planar markers. <i>Pattern Recognition</i> , <b>2019</b> , 86, 156-171	7.7	38
57	UcoSLAM: Simultaneous localization and mapping by fusion of keypoints and squared planar markers. <i>Pattern Recognition</i> , <b>2020</b> , 101, 107193	7.7	30
56	Determining hysteresis thresholds for edge detection by combining the advantages and disadvantages of thresholding methods. <i>IEEE Transactions on Image Processing</i> , <b>2010</b> , 19, 165-73	8.7	30
55	A Bayesian plan-view map based approach for multiple-person detection and tracking. <i>Pattern Recognition</i> , <b>2008</b> , 41, 3665-3676	7.7	29
54	Multi-camera people tracking using evidential filters. <i>International Journal of Approximate Reasoning</i> , <b>2009</b> , 50, 732-749	3.6	28
53	Robust identification of fiducial markers in challenging conditions. <i>Expert Systems With Applications</i> , <b>2018</b> , 93, 336-345	7.8	25
52	Shape from silhouette using Dempster-Shafer theory. <i>Pattern Recognition</i> , <b>2010</b> , 43, 2119-2131	7.7	25
51	A new approach for multi-view gait recognition on unconstrained paths. <i>Journal of Visual Communication and Image Representation</i> , <b>2016</b> , 38, 396-406	2.7	24

50	Automatic Tuning of a Fuzzy Visual System Using Evolutionary Algorithms: Single-Objective Versus Multiobjective Approaches. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2008</b> , 16, 485-501	8.3	24
49	Adaptive multi-modal stereo people tracking without background modelling. <i>Journal of Visual Communication and Image Representation</i> , <b>2008</b> , 19, 75-91	2.7	22
48	Detection of doors using a genetic visual fuzzy system for mobile robots. <i>Autonomous Robots</i> , <b>2006</b> , 21, 123-141	3	22
47	Deep Mixture of Linear Inverse Regressions Applied to Head-Pose Estimation <b>2017</b> ,		21
46	3D human pose estimation from depth maps using a deep combination of poses. <i>Journal of Visual Communication and Image Representation</i> , <b>2018</b> , 55, 627-639	2.7	20
45	Multi-camera head pose estimation. <i>Machine Vision and Applications</i> , <b>2012</b> , 23, 479-490	2.8	18
44	A multiple object tracking approach that combines colour and depth information using a confidence measure. <i>Pattern Recognition Letters</i> , <b>2008</b> , 29, 1504-1514	4.7	18
43	Simultaneous reconstruction and calibration for multi-view structured light scanning. <i>Journal of Visual Communication and Image Representation</i> , <b>2016</b> , 39, 120-131	2.7	17
42	Accurate automated assessment of gully cross-section geometry using the photogrammetric interface FreeXSapp. <i>Earth Surface Processes and Landforms</i> , <b>2018</b> , 43, 1726-1736	3.7	16
41	Comparing evolutionary algorithms and particle filters for Markerless Human Motion Capture. <i>Applied Soft Computing Journal</i> , <b>2014</b> , 17, 153-166	7.5	16
40	People detection and tracking with multiple stereo cameras using particle filters. <i>Journal of Visual Communication and Image Representation</i> , <b>2009</b> , 20, 339-350	2.7	16
39	A new measurement for assessing polygonal approximation of curves. <i>Pattern Recognition</i> , <b>2011</b> , 44, 45-54	7.7	16
38	Solving the process of hysteresis without determining the optimal thresholds. <i>Pattern Recognition</i> , <b>2010</b> , 43, 1224-1232	7.7	16
37	A new fuzzy based algorithm for solving stereo vagueness in detecting and tracking people. <i>International Journal of Approximate Reasoning</i> , <b>2012</b> , 53, 693-708	3.6	15
36	The AVA Multi-View Dataset for Gait Recognition. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 26-39	0.9	15
35	Human interaction categorization by using audio-visual cues. <i>Machine Vision and Applications</i> , <b>2014</b> , 25, 71-84	2.8	14
34	A multi-agent system architecture for mobile robot navigation based on fuzzy and visual behaviour. <i>Robotica</i> , <b>2005</b> , 23, 689-699	2.1	12
33	Viewpoint-independent gait recognition through morphological descriptions of 3D human reconstructions. <i>Image and Vision Computing</i> , <b>2016</b> , 48-49, 1-13	3.7	10

32	A novel histogram transformation to improve the performance of thresholding methods in edge detection. <i>Pattern Recognition Letters</i> , <b>2011</b> , 32, 676-693	4.7	10
31	Novel method to obtain the optimal polygonal approximation of digital planar curves based on Mixed Integer Programming. <i>Journal of Visual Communication and Image Representation</i> , <b>2015</b> , 30, 106-116	2.7	9
30	Entropy volumes for viewpoint-independent gait recognition. <i>Machine Vision and Applications</i> , <b>2015</b> , 26, 1079-1094	2.8	9
29	An efficient unsupervised method for obtaining polygonal approximations of closed digital planar curves. <i>Journal of Visual Communication and Image Representation</i> , <b>2016</b> , 39, 152-163	2.7	9
28	. <i>IEEE Access</i> , <b>2019</b> , 7, 169908-169919	3.5	8
27	Simultaneous Multi-View Camera Pose Estimation and Object Tracking With Squared Planar Markers. <i>IEEE Access</i> , <b>2019</b> , 7, 22927-22940	3.5	7
26	Keypoint descriptor fusion with Dempster-Shafer theory. <i>International Journal of Approximate Reasoning</i> , <b>2015</b> , 60, 57-70	3.6	7
25	Stereo Pictorial Structure for 2D articulated human pose estimation. <i>Machine Vision and Applications</i> , <b>2016</b> , 27, 157-174	2.8	7
24	3D Reconstruction and alignment by consumer RGB-D sensors and fiducial planar markers for patient positioning in radiation therapy. <i>Computer Methods and Programs in Biomedicine</i> , <b>2019</b> , 180, 105004	6.9	7
23	Flexible body scanning without template models. <i>Signal Processing</i> , <b>2019</b> , 154, 350-362	4.4	6
22	An octree-based method for shape from inconsistent silhouettes. <i>Pattern Recognition</i> , <b>2012</b> , 45, 3245-3255	2.5	5
21	On stop conditions about methods to obtain polygonal approximations relied on break point suppression. <i>Image and Vision Computing</i> , <b>2012</b> , 30, 513-523	3.7	5
20	Multi-agent system for people detection and tracking using stereo vision in mobile robots. <i>Robotica</i> , <b>2009</b> , 27, 715	2.1	5
19	Particle filtering with multiple and heterogeneous cameras. <i>Pattern Recognition</i> , <b>2010</b> , 43, 2390-2405	7.7	5
18	People Detection and Tracking Through Stereo Vision for Human-Robot Interaction. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 337-346	0.9	5
17	Parallelization strategies for markerless human motion capture. <i>Journal of Real-Time Image Processing</i> , <b>2018</b> , 14, 453-467	1.9	4
16	Mixing body-parts model for 2D human pose estimation in stereo videos. <i>IET Computer Vision</i> , <b>2017</b> , 11, 426-433	1.4	4
15	RealHePoNet: a robust single-stage ConvNet for head pose estimation in the wild. <i>Neural Computing and Applications</i> , <b>2021</b> , 33, 7673-7689	4.8	4

14	Three-dimensional action recognition using volume integrals. <i>Pattern Analysis and Applications</i> , <b>2012</b> , 15, 289-298	2.3	3
13	Example-based procedural modelling by geometric constraint solving. <i>Multimedia Tools and Applications</i> , <b>2012</b> , 60, 1-30	2.5	2
12	Contour simplification using a multi-scale local phase analysis. <i>Image and Vision Computing</i> , <b>2008</b> , 26, 1499-1506	3.7	2
11	Design, Detection, and Tracking of Customized Fiducial Markers. <i>IEEE Access</i> , <b>2021</b> , 9, 140066-140078	3.5	2
10	Classification of Fiducial Markers in Challenging Conditions with SVM. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 344-352	0.9	1
9	Shape from pairwise silhouettes for plan-view map generation. <i>Image and Vision Computing</i> , <b>2012</b> , 30, 122-133	3.7	1
8	A New Person Tracking Method for Human-Robot Interaction Intended for Mobile Devices <b>2007</b> , 747-757		1
7	Method for Polygonal Approximation through Dominant Points Deletion. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 350-358	0.9	1
6	Tracking fiducial markers with discriminative correlation filters. <i>Image and Vision Computing</i> , <b>2021</b> , 107, 104094	3.7	1
5	Joint scene and object tracking for cost-Effective augmented reality guided patient positioning in radiation therapy. <i>Computer Methods and Programs in Biomedicine</i> , <b>2021</b> , 209, 106296	6.9	1
4	Conflict-based pruning of a solution space within a constructive geometric constraint solver. <i>Applied Intelligence</i> , <b>2014</b> , 41, 897-922	4.9	0
3	Using Stereo Vision and Fuzzy Systems for Detecting and Tracking People. <i>Communications in Computer and Information Science</i> , <b>2010</b> , 582-591	0.3	
2	Continuous Stereo Gesture Recognition with Multi-layered Silhouette Templates and Support Vector Machines <b>2007</b> , 789-799		
1	Detection of Binary Square Fiducial Markers Using an Event Camera. <i>IEEE Access</i> , <b>2021</b> , 9, 27813-27826	3.5	