Rafael Medina-Carnicer

List of Publications by Year
in descending order

70	2,259	293460	252626
papers	citations	24	46
		h-index	g-index

71	71	71	1977
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	CAVLCU: an efficient GPU-based implementation of CAVLC. Journal of Supercomputing, 2022, 78, 7556-7590.	2.4	1
2	GUD-Canny: a real-time GPU-based unsupervised and distributed Canny edge detector. Journal of Real-Time Image Processing, 2022, 19, 591-605.	2.2	6
3	Tracking fiducial markers with discriminative correlation filters. Image and Vision Computing, 2021, 107, 104094.	2.7	10
4	Joint scene and object tracking for cost-Effective augmented reality guided patient positioning in radiation therapy. Computer Methods and Programs in Biomedicine, 2021, 209, 106296.	2.6	6
5	Detection of Binary Square Fiducial Markers Using an Event Camera. IEEE Access, 2021, 9, 27813-27826.	2.6	5
6	Design, Detection, and Tracking of Customized Fiducial Markers. IEEE Access, 2021, 9, 140066-140078.	2.6	14
7	Unsupervised generation of polygonal approximations based on the convex hull. Pattern Recognition Letters, 2020, 135, 138-145.	2.6	9
8	UcoSLAM: Simultaneous localization and mapping by fusion of keypoints and squared planar markers. Pattern Recognition, 2020, 101, 107193.	5.1	76
9	3D Reconstruction and alignment by consumer RGB-D sensors and fiducial planar markers for patient positioning in radiation therapy. Computer Methods and Programs in Biomedicine, 2019, 180, 105004.	2.6	10
10	Simultaneous Multi-View Camera Pose Estimation and Object Tracking With Squared Planar Markers. IEEE Access, 2019, 7, 22927-22940.	2.6	20
11	Fractal Markers: A New Approach for Long-Range Marker Pose Estimation Under Occlusion. IEEE Access, 2019, 7, 169908-169919.	2.6	23
12	SPM-SLAM: Simultaneous localization and mapping with squared planar markers. Pattern Recognition, 2019, 86, 156-171.	5.1	57
13	Flexible body scanning without template models. Signal Processing, 2019, 154, 350-362.	2.1	6
14	Parallelization strategies for markerless human motion capture. Journal of Real-Time Image Processing, 2018, 14, 453-467.	2.2	4
15	Robust identification of fiducial markers in challenging conditions. Expert Systems With Applications, 2018, 93, 336-345.	4.4	39
16	Mapping and localization from planar markers. Pattern Recognition, 2018, 73, 158-171.	5.1	93
17	3D human pose estimation from depth maps using a deep combination of poses. Journal of Visual Communication and Image Representation, 2018, 55, 627-639.	1.7	29
18	Speeded up detection of squared fiducial markers. Image and Vision Computing, 2018, 76, 38-47.	2.7	433

#	Article	IF	Citations
19	Classification of Fiducial Markers in Challenging Conditions with SVM. Lecture Notes in Computer Science, 2017, , 344-352.	1.0	2
20	Mixing bodyâ€‘parts model for 2D human pose estimation in stereo videos. IET Computer Vision, 2017, 11, 426-433.	1.3	5
21	Deep multi-task learning for gait-based biometrics. , 2017, , .		46
22	An efficient unsupervised method for obtaining polygonal approximations of closed digital planar curves. Journal of Visual Communication and Image Representation, 2016, 39, 152-163.	1.7	11
23	Viewpoint-independent gait recognition through morphological descriptions of 3D human reconstructions. Image and Vision Computing, 2016, 48-49, 1-13.	2.7	11
24	A new approach for multi-view gait recognition on unconstrained paths. Journal of Visual Communication and Image Representation, 2016, 38, 396-406.	1.7	26
25	A new thresholding approach for automatic generation of polygonal approximations. Journal of Visual Communication and Image Representation, 2016, 35, 155-168.	1.7	11
26	Stereo Pictorial Structure for 2D articulated human pose estimation. Machine Vision and Applications, 2016, 27, 157-174.	1.7	7
27	Generation of fiducial marker dictionaries using Mixed Integer Linear Programming. Pattern Recognition, 2016, 51, 481-491.	5.1	350
28	Multi-view gait recognition on curved trajectories. , 2015, , .		3
29	Keypoint descriptor fusion with Dempsterâ€"Shafer theory. International Journal of Approximate Reasoning, 2015, 60, 57-70.	1.9	11
30	Three hypothesis algorithm with occlusion reasoning for multiple people tracking. Journal of Electronic Imaging, 2015, 24, 013015.	0.5	4
31	Entropy volumes for viewpoint-independent gait recognition. Machine Vision and Applications, 2015, 26, 1079-1094.	1.7	12
32	Unsupervised Approximation of Digital Planar Curves. Lecture Notes in Computer Science, 2015, , 200-207.	1.0	0
33	Conflict-based pruning of a solution space within a constructive geometric constraint solver. Applied Intelligence, 2014, 41, 897-922.	3.3	1
34	Pyramidal Fisher Motion for Multiview Gait Recognition. , 2014, , .		23
35	The computation of polygonal approximations for 2D contours based on a concavity tree. Journal of Visual Communication and Image Representation, 2014, 25, 1905-1917.	1.7	11
36	Validation of a new objective index to measure spinal mobility: the University of Cordoba Ankylosing Spondylitis Metrology Index (UCOASMI). Rheumatology International, 2014, 34, 401-406.	1.5	18

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37	Comparing evolutionary algorithms and particle filters for Markerless Human Motion Capture. Applied Soft Computing Journal, 2014, 17, 153-166.	4.1	18
38	Occlusion Model from Human Interaction Analysis for Tracking Multiple People. , 2013, , .		0
39	On stop conditions about methods to obtain polygonal approximations relied on break point suppression. Image and Vision Computing, 2012, 30, 513-523.	2.7	5
40	Assessment of spinal mobility in ankylosing spondylitis using a video-based motion capture system. Manual Therapy, 2012, 17, 422-426.	1.6	30
41	Example-based procedural modelling by geometric constraint solving. Multimedia Tools and Applications, 2012, 60, 1-30.	2.6	3
42	Multi-camera head pose estimation. Machine Vision and Applications, 2012, 23, 479-490.	1.7	27
43	Three-dimensional action recognition using volume integrals. Pattern Analysis and Applications, 2012, 15, 289-298.	3.1	4
44	Shape from pairwise silhouettes for plan-view map generation. Image and Vision Computing, 2012, 30, 122-133.	2.7	1
45	An octree-based method for shape from inconsistent silhouettes. Pattern Recognition, 2012, 45, 3245-3255.	5.1	6
46	A novel method to look for the hysteresis thresholds for the Canny edge detector. Pattern Recognition, 2011, 44, 1201-1211.	5.1	86
47	A new measurement for assessing polygonal approximation of curves. Pattern Recognition, 2011, 44, 45-54.	5.1	20
48	A novel histogram transformation to improve the performance of thresholding methods in edge detection. Pattern Recognition Letters, 2011, 32, 676-693.	2.6	18
49	Polygonal approximation of digital planar curves through break point suppression. Pattern Recognition, 2010, 43, 14-25.	5.1	82
50	Shape from silhouette using Dempster–Shafer theory. Pattern Recognition, 2010, 43, 2119-2131.	5.1	32
51	Solving the process of hysteresis without determining the optimal thresholds. Pattern Recognition, 2010, 43, 1224-1232.	5.1	19
52	Particle filtering with multiple and heterogeneous cameras. Pattern Recognition, 2010, 43, 2390-2405.	5.1	6
53	Determining Hysteresis Thresholds for Edge Detection by Combining the Advantages and Disadvantages of Thresholding Methods. IEEE Transactions on Image Processing, 2010, 19, 165-173.	6.0	44
54	Method for Polygonal Approximation through Dominant Points Deletion. Lecture Notes in Computer Science, 2010, , 350-358.	1.0	1

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55	2D versus 3D in the kinematic analysis of the horse at the trot. Veterinary Research Communications, 2009, 33, 507-513.	0.6	15
56	On candidates selection for hysteresis thresholds in edge detection. Pattern Recognition, 2009, 42, 1284-1296.	5.1	56
57	Fast detection of marker pixels in video-based motion capture systems. Pattern Recognition Letters, 2009, 30, 432-439.	2.6	3
58	Multi-camera people tracking using evidential filters. International Journal of Approximate Reasoning, 2009, 50, 732-749.	1.9	34
59	People detection and tracking with multiple stereo cameras using particle filters. Journal of Visual Communication and Image Representation, 2009, 20, 339-350.	1.7	24
60	Adaptive multi-modal stereo people tracking without background modelling. Journal of Visual Communication and Image Representation, 2008, 19, 75-91.	1.7	26
61	Contour simplification using a multi-scale local phase analysis. Image and Vision Computing, 2008, 26, 1499-1506.	2.7	2
62	Unimodal thresholding for edge detection. Pattern Recognition, 2008, 41, 2337-2346.	5.1	47
63	Automatic generation of consensus ground truth for the comparison of edge detection techniques. Image and Vision Computing, 2008, 26, 496-511.	2.7	50
64	Depth silhouettes for gesture recognition. Pattern Recognition Letters, 2008, 29, 319-329.	2.6	64
65	Dominant Points Detection Using Phase Congruence. Lecture Notes in Computer Science, 2007, , 138-145.	1.0	1
66	Design and evaluation of a new three-dimensional motion capture system based on video. Gait and Posture, 2006, 24, 126-129.	0.6	32
67	Evaluation of global thresholding techniques in non-contextual edge detection. Pattern Recognition Letters, 2005, 26, 1423-1434.	2.6	19
68	Dominant point detection: A new proposal. Image and Vision Computing, 2005, 23, 1226-1236.	2.7	48
69	Characterization of empirical discrepancy evaluation measures. Pattern Recognition Letters, 2004, 25, 35-47.	2.6	42
70	A Method for Dominant Points Detection and Matching 2D Object Identification. Lecture Notes in Computer Science, 2004, , 424-431.	1.0	1