

Rafael Medina-Carnicer

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

2,259
citations

257450

24
h-index

223800

46
g-index

71
all docs

71
docs citations

71
times ranked

1787
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Speeded up detection of squared fiducial markers. Image and Vision Computing, 2018, 76, 38-47. | 4.5 | 433 |
| 2 | Generation of fiducial marker dictionaries using Mixed Integer Linear Programming. Pattern Recognition, 2016, 51, 481-491. | 8.1 | 350 |
| 3 | Mapping and localization from planar markers. Pattern Recognition, 2018, 73, 158-171. | 8.1 | 93 |
| 4 | A novel method to look for the hysteresis thresholds for the Canny edge detector. Pattern Recognition, 2011, 44, 1201-1211. | 8.1 | 86 |
| 5 | Polygonal approximation of digital planar curves through break point suppression. Pattern Recognition, 2010, 43, 14-25. | 8.1 | 82 |
| 6 | UcoSLAM: Simultaneous localization and mapping by fusion of keypoints and squared planar markers. Pattern Recognition, 2020, 101, 107193. | 8.1 | 76 |
| 7 | Depth silhouettes for gesture recognition. Pattern Recognition Letters, 2008, 29, 319-329. | 4.2 | 64 |
| 8 | SPM-SLAM: Simultaneous localization and mapping with squared planar markers. Pattern Recognition, 2019, 86, 156-171. | 8.1 | 57 |
| 9 | On candidates selection for hysteresis thresholds in edge detection. Pattern Recognition, 2009, 42, 1284-1296. | 8.1 | 56 |
| 10 | Automatic generation of consensus ground truth for the comparison of edge detection techniques. Image and Vision Computing, 2008, 26, 496-511. | 4.5 | 50 |
| 11 | Dominant point detection: A new proposal. Image and Vision Computing, 2005, 23, 1226-1236. | 4.5 | 48 |
| 12 | Unimodal thresholding for edge detection. Pattern Recognition, 2008, 41, 2337-2346. | 8.1 | 47 |
| 13 | Deep multi-task learning for gait-based biometrics. , 2017, , . | | 46 |
| 14 | Determining Hysteresis Thresholds for Edge Detection by Combining the Advantages and Disadvantages of Thresholding Methods. IEEE Transactions on Image Processing, 2010, 19, 165-173. | 9.8 | 44 |
| 15 | Characterization of empirical discrepancy evaluation measures. Pattern Recognition Letters, 2004, 25, 35-47. | 4.2 | 42 |
| 16 | Robust identification of fiducial markers in challenging conditions. Expert Systems With Applications, 2018, 93, 336-345. | 7.6 | 39 |
| 17 | Multi-camera people tracking using evidential filters. International Journal of Approximate Reasoning, 2009, 50, 732-749. | 3.3 | 34 |
| 18 | Design and evaluation of a new three-dimensional motion capture system based on video. Gait and Posture, 2006, 24, 126-129. | 1.4 | 32 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Shape from silhouette using Dempster-Shafer theory. <i>Pattern Recognition</i> , 2010, 43, 2119-2131. | 8.1 | 32 |
| 20 | Assessment of spinal mobility in ankylosing spondylitis using a video-based motion capture system. <i>Manual Therapy</i> , 2012, 17, 422-426. | 1.6 | 30 |
| 21 | 3D human pose estimation from depth maps using a deep combination of poses. <i>Journal of Visual Communication and Image Representation</i> , 2018, 55, 627-639. | 2.8 | 29 |
| 22 | Multi-camera head pose estimation. <i>Machine Vision and Applications</i> , 2012, 23, 479-490. | 2.7 | 27 |
| 23 | Adaptive multi-modal stereo people tracking without background modelling. <i>Journal of Visual Communication and Image Representation</i> , 2008, 19, 75-91. | 2.8 | 26 |
| 24 | A new approach for multi-view gait recognition on unconstrained paths. <i>Journal of Visual Communication and Image Representation</i> , 2016, 38, 396-406. | 2.8 | 26 |
| 25 | People detection and tracking with multiple stereo cameras using particle filters. <i>Journal of Visual Communication and Image Representation</i> , 2009, 20, 339-350. | 2.8 | 24 |
| 26 | Pyramidal Fisher Motion for Multiview Gait Recognition. , 2014, , . | | 23 |
| 27 | Fractal Markers: A New Approach for Long-Range Marker Pose Estimation Under Occlusion. <i>IEEE Access</i> , 2019, 7, 169908-169919. | 4.2 | 23 |
| 28 | A new measurement for assessing polygonal approximation of curves. <i>Pattern Recognition</i> , 2011, 44, 45-54. | 8.1 | 20 |
| 29 | Simultaneous Multi-View Camera Pose Estimation and Object Tracking With Squared Planar Markers. <i>IEEE Access</i> , 2019, 7, 22927-22940. | 4.2 | 20 |
| 30 | Evaluation of global thresholding techniques in non-contextual edge detection. <i>Pattern Recognition Letters</i> , 2005, 26, 1423-1434. | 4.2 | 19 |
| 31 | Solving the process of hysteresis without determining the optimal thresholds. <i>Pattern Recognition</i> , 2010, 43, 1224-1232. | 8.1 | 19 |
| 32 | A novel histogram transformation to improve the performance of thresholding methods in edge detection. <i>Pattern Recognition Letters</i> , 2011, 32, 676-693. | 4.2 | 18 |
| 33 | Validation of a new objective index to measure spinal mobility: the University of Cordoba Ankylosing Spondylitis Metrology Index (UCOASMI). <i>Rheumatology International</i> , 2014, 34, 401-406. | 3.0 | 18 |
| 34 | Comparing evolutionary algorithms and particle filters for Markerless Human Motion Capture. <i>Applied Soft Computing Journal</i> , 2014, 17, 153-166. | 7.2 | 18 |
| 35 | 2D versus 3D in the kinematic analysis of the horse at the trot. <i>Veterinary Research Communications</i> , 2009, 33, 507-513. | 1.6 | 15 |
| 36 | Design, Detection, and Tracking of Customized Fiducial Markers. <i>IEEE Access</i> , 2021, 9, 140066-140078. | 4.2 | 14 |

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|----|--|-----|-----------|
| 37 | Entropy volumes for viewpoint-independent gait recognition. <i>Machine Vision and Applications</i> , 2015, 26, 1079-1094. | 2.7 | 12 |
| 38 | The computation of polygonal approximations for 2D contours based on a concavity tree. <i>Journal of Visual Communication and Image Representation</i> , 2014, 25, 1905-1917. | 2.8 | 11 |
| 39 | Keypoint descriptor fusion with Dempster-Shafer theory. <i>International Journal of Approximate Reasoning</i> , 2015, 60, 57-70. | 3.3 | 11 |
| 40 | An efficient unsupervised method for obtaining polygonal approximations of closed digital planar curves. <i>Journal of Visual Communication and Image Representation</i> , 2016, 39, 152-163. | 2.8 | 11 |
| 41 | Viewpoint-independent gait recognition through morphological descriptions of 3D human reconstructions. <i>Image and Vision Computing</i> , 2016, 48-49, 1-13. | 4.5 | 11 |
| 42 | A new thresholding approach for automatic generation of polygonal approximations. <i>Journal of Visual Communication and Image Representation</i> , 2016, 35, 155-168. | 2.8 | 11 |
| 43 | 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> , 2019, 180, 105004. | 4.7 | 10 |
| 44 | Tracking fiducial markers with discriminative correlation filters. <i>Image and Vision Computing</i> , 2021, 107, 104094. | 4.5 | 10 |
| 45 | Unsupervised generation of polygonal approximations based on the convex hull. <i>Pattern Recognition Letters</i> , 2020, 135, 138-145. | 4.2 | 9 |
| 46 | Stereo Pictorial Structure for 2D articulated human pose estimation. <i>Machine Vision and Applications</i> , 2016, 27, 157-174. | 2.7 | 7 |
| 47 | Particle filtering with multiple and heterogeneous cameras. <i>Pattern Recognition</i> , 2010, 43, 2390-2405. | 8.1 | 6 |
| 48 | An octree-based method for shape from inconsistent silhouettes. <i>Pattern Recognition</i> , 2012, 45, 3245-3255. | 8.1 | 6 |
| 49 | Flexible body scanning without template models. <i>Signal Processing</i> , 2019, 154, 350-362. | 3.7 | 6 |
| 50 | Joint scene and object tracking for cost-Effective augmented reality guided patient positioning in radiation therapy. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 209, 106296. | 4.7 | 6 |
| 51 | GLD-Canny: a real-time GPU-based unsupervised and distributed Canny edge detector. <i>Journal of Real-Time Image Processing</i> , 2022, 19, 591-605. | 3.5 | 6 |
| 52 | On stop conditions about methods to obtain polygonal approximations relied on break point suppression. <i>Image and Vision Computing</i> , 2012, 30, 513-523. | 4.5 | 5 |
| 53 | Mixing body-parts model for 2D human pose estimation in stereo videos. <i>IET Computer Vision</i> , 2017, 11, 426-433. | 2.0 | 5 |
| 54 | Detection of Binary Square Fiducial Markers Using an Event Camera. <i>IEEE Access</i> , 2021, 9, 27813-27826. | 4.2 | 5 |

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|----|--|-----|-----------|
| 55 | Three-dimensional action recognition using volume integrals. Pattern Analysis and Applications, 2012, 15, 289-298. | 4.6 | 4 |
| 56 | Three hypothesis algorithm with occlusion reasoning for multiple people tracking. Journal of Electronic Imaging, 2015, 24, 013015. | 0.9 | 4 |
| 57 | Parallelization strategies for markerless human motion capture. Journal of Real-Time Image Processing, 2018, 14, 453-467. | 3.5 | 4 |
| 58 | Fast detection of marker pixels in video-based motion capture systems. Pattern Recognition Letters, 2009, 30, 432-439. | 4.2 | 3 |
| 59 | Example-based procedural modelling by geometric constraint solving. Multimedia Tools and Applications, 2012, 60, 1-30. | 3.9 | 3 |
| 60 | Multi-view gait recognition on curved trajectories. , 2015, , . | | 3 |
| 61 | Contour simplification using a multi-scale local phase analysis. Image and Vision Computing, 2008, 26, 1499-1506. | 4.5 | 2 |
| 62 | Classification of Fiducial Markers in Challenging Conditions with SVM. Lecture Notes in Computer Science, 2017, , 344-352. | 1.3 | 2 |
| 63 | A Method for Dominant Points Detection and Matching 2D Object Identification. Lecture Notes in Computer Science, 2004, , 424-431. | 1.3 | 1 |
| 64 | Shape from pairwise silhouettes for plan-view map generation. Image and Vision Computing, 2012, 30, 122-133. | 4.5 | 1 |
| 65 | Conflict-based pruning of a solution space within a constructive geometric constraint solver. Applied Intelligence, 2014, 41, 897-922. | 5.3 | 1 |
| 66 | Method for Polygonal Approximation through Dominant Points Deletion. Lecture Notes in Computer Science, 2010, , 350-358. | 1.3 | 1 |
| 67 | Dominant Points Detection Using Phase Congruence. Lecture Notes in Computer Science, 2007, , 138-145. | 1.3 | 1 |
| 68 | CAVLCU: an efficient GPU-based implementation of CAVLC. Journal of Supercomputing, 2022, 78, 7556-7590. | 3.6 | 1 |
| 69 | Occlusion Model from Human Interaction Analysis for Tracking Multiple People. , 2013, , . | | 0 |
| 70 | Unsupervised Approximation of Digital Planar Curves. Lecture Notes in Computer Science, 2015, , 200-207. | 1.3 | 0 |