

Antonio-Jose Sanchez-Salmeron

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,019
citations

471061

17
h-index

454577

30
g-index

64
all docs

64
docs citations

64
times ranked

989
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiview motion tracking based on a cartesian robot to monitor <i>Caenorhabditis elegans</i> in standard Petri dishes. <i>Scientific Reports</i> , 2022, 12, 1767.	1.6	8
2	A new training strategy for spatial transform networks (STNâ€™s). <i>Neural Computing and Applications</i> , 2022, 34, 10081-10092.	3.2	1
3	Small flexible automated system for monitoring <i>Caenorhabditis elegans</i> lifespan based on active vision and image processing techniques. <i>Scientific Reports</i> , 2021, 11, 12289.	1.6	12
4	Towards Lifespan Automation for <i>Caenorhabditis elegans</i> Based on Deep Learning: Analysing Convolutional and Recurrent Neural Networks for Dead or Live Classification. <i>Sensors</i> , 2021, 21, 4943.	2.1	6
5	<i>Caenorhabditis elegans</i> Multi-Tracker Based on a Modified Skeleton Algorithm. <i>Sensors</i> , 2021, 21, 5622.	2.1	5
6	Reducing Results Variance in Lifespan Machines: An Analysis of the Influence of Vibrotaxis on Wild-Type <i>Caenorhabditis elegans</i> for the Death Criterion. <i>Sensors</i> , 2020, 20, 5981.	2.1	6
7	Improving lifespan automation for <i>Caenorhabditis elegans</i> by using image processing and a post-processing adaptive data filter. <i>Scientific Reports</i> , 2020, 10, 8729.	1.6	12
8	Improving skeleton algorithm for helping <i>Caenorhabditis elegans</i> trackers. <i>Scientific Reports</i> , 2020, 10, 22247.	1.6	6
9	Active backlight for automating visual monitoring: An analysis of a lighting control technique for <i>Caenorhabditis elegans</i> cultured on standard Petri plates. <i>PLoS ONE</i> , 2019, 14, e0215548.	1.1	10
10	Multi-step approach for automated scaling of photogrammetric micro-measurements. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 102, 747-757.	1.5	3
11	Experimental investigation on camera calibration for 3D photogrammetric scanning of micro-features for micrometric resolution. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 91, 2935-2947.	1.5	16
12	4-Dimensional deformation part model for pose estimation using Kalman filter constraints. <i>International Journal of Advanced Robotic Systems</i> , 2017, 14, 172988141771423.	1.3	0
13	Hyperspectral image control of the heat-treatment process of oat flour to model composite bread properties. <i>Journal of Food Engineering</i> , 2017, 192, 45-52.	2.7	19
14	3D image based modelling for inspection of objects with micro-features, using inaccurate calibration patterns: an experimental contribution. <i>International Journal on Interactive Design and Manufacturing</i> , 2017, 11, 415-425.	1.3	5
15	Dual Quaternions as Constraints in 4D-DPM Models for Pose Estimation. <i>Sensors</i> , 2017, 17, 1913.	2.1	1
16	Predicting Gilthead Sea Bream (<i>Sparus aurata</i>) Freshness by a Novel Combined Technique of 3D Imaging and SW-NIR Spectral Analysis. <i>Sensors</i> , 2016, 16, 1735.	2.1	10
17	Spectral study of heat treatment process of wheat flour by VIS/SW-NIR image system. <i>Journal of Cereal Science</i> , 2016, 71, 99-107.	1.8	7
18	Shelf life prediction of expired vacuum-packed chilled smoked salmon based on a KNN tissue segmentation method using hyperspectral images. <i>Journal of Food Engineering</i> , 2016, 178, 110-116.	2.7	19

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19	Detection of adulterations with different grains in wheat products based on the hyperspectral image technique: The specific cases of flour and bread. <i>Food Control</i> , 2016, 62, 373-380.	2.8	61
20	Photogrammetric measurement of 3D freeform millimetre-sized objects with micro features: an experimental validation of the close-range camera calibration model for narrow angles of view. <i>Measurement Science and Technology</i> , 2015, 26, 095203.	1.4	24
21	Preliminary Study on the 3D Digitization of Millimeter Scale Products by Means of Photogrammetry. <i>Procedia CIRP</i> , 2015, 33, 257-262.	1.0	17
22	Study of high strength wheat flours considering their physicochemical and rheological characterisation as well as fermentation capacity using SW-NIR imaging. <i>Journal of Cereal Science</i> , 2015, 62, 31-37.	1.8	8
23	Physicochemical effects of chia (<i>Salvia hispanica</i>) seed flour on each wheat bread-making process phase and product storage. <i>Journal of Cereal Science</i> , 2015, 65, 67-73.	1.8	21
24	Handling for Micro-manufacturing. , 2015, , 637-659.		4
25	Relationship between fermentation behavior, measured with a 3D vision Structured Light technique, and the internal structure of bread. <i>Journal of Food Engineering</i> , 2015, 146, 227-233.	2.7	16
26	Assessment of grape cluster yield components based on 3D descriptors using stereo vision. <i>Food Control</i> , 2015, 50, 273-282.	2.8	43
27	Trabajo cooperativo basado en SCRUM para desarrollar proyectos distribuidos de visi3n y rob3tica. , 2015, , .		0
28	Preliminary study using visible and SW-NIR analysis for evaluating the loss of freshness in commercially packaged cooked ham and Turkey ham. <i>Czech Journal of Food Sciences</i> , 2014, 32, 376-383.	0.6	2
29	Continuous monitoring of bread dough fermentation using a 3D vision Structured Light technique. <i>Journal of Food Engineering</i> , 2014, 130, 8-13.	2.7	17
30	Fall detection based on the gravity vector using a wide-angle camera. <i>Expert Systems With Applications</i> , 2014, 41, 7980-7986.	4.4	31
31	Comparison of TOF and SL techniques for in-line measurement of food item volume using animal and vegetable tissues. <i>Food Control</i> , 2013, 33, 221-226.	2.8	7
32	Detection of expired vacuum-packed smoked salmon based on PLS-DA method using hyperspectral images. <i>Journal of Food Engineering</i> , 2013, 117, 342-349.	2.7	47
33	Efficient Lens Distortion Correction for Decoupling in Calibration of Wide Angle Lens Cameras. <i>IEEE Sensors Journal</i> , 2013, 13, 854-863.	2.4	16
34	Calibration of a trinocular system formed with wide angle lens cameras. <i>Optics Express</i> , 2012, 20, 27691.	1.7	16
35	Accurate calibration with highly distorted images. <i>Applied Optics</i> , 2012, 51, 89.	0.9	22
36	VISUAL-BASED HUMAN ACTION RECOGNITION ON SMART PHONES BASED ON 2D AND 3D DESCRIPTORS. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2012, 26, 1260009.	0.7	1

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37	Industrial Robot Programming and UPnP Services Orchestration for the Automation of Factories. International Journal of Advanced Robotic Systems, 2012, 9, 123.	1.3	7
38	A flexible packaging station for micro-bulk-forming applications based on a standard carrier. International Journal of Advanced Manufacturing Technology, 2012, 61, 529-536.	1.5	4
39	Optimal conditions for camera calibration using a planar template. , 2011, , .		4
40	Nondestructive assessment of freshness in packaged sliced chicken breasts using SW-NIR spectroscopy. Food Research International, 2011, 44, 331-337.	2.9	100
41	Camera calibration under optimal conditions. Optics Express, 2011, 19, 10769.	1.7	45
42	Calibration of a wide angle stereoscopic system. Optics Letters, 2011, 36, 3064.	1.7	6
43	Using the camera pin-hole model restrictions to calibrate the lens distortion model. Optics and Laser Technology, 2011, 43, 996-1005.	2.2	40
44	An inter-machine material handling system for micro-manufacturing based on using a standard carrier. International Journal of Advanced Manufacturing Technology, 2010, 47, 937-943.	1.5	6
45	Correcting non-linear lens distortion in cameras without using a model. Optics and Laser Technology, 2010, 42, 628-639.	2.2	40
46	Robust metric calibration of non-linear camera lens distortion. Pattern Recognition, 2010, 43, 1688-1699.	5.1	82
47	Handling for Micro-Manufacturing. , 2010, , 298-314.		5
48	Lens distortion models evaluation. Applied Optics, 2010, 49, 5914.	2.1	74
49	Control of ham salting by using image segmentation. Food Control, 2008, 19, 135-142.	2.8	37
50	An Iterative Kalman Filter Approach to Camera Calibration. Lecture Notes in Computer Science, 2008, , 137-146.	1.0	0
51	VIRTUAL PLATFORM FOR PROTOTYPE IMPLEMENTATION OF FLEXIBLE AUTOMATED DISASSEMBLY SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 87-95.	0.4	2
52	Improved Camera Calibration Method Based on a Two-Dimensional Template. Lecture Notes in Computer Science, 2007, , 420-427.	1.0	5
53	Recent development in micro-handling systems for micro-manufacturing. Journal of Materials Processing Technology, 2005, 167, 499-507.	3.1	44
54	Improving accuracy and confidence interval of camera parameters estimated with a planar pattern. , 2005, , .		0

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55	Intelligent robotic cell for Trencad/spl inodot//spl acute/s mosaics manufacturing. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2005, 35, 75-86.	3.3	0
56	Uncertainty Analysis of Camera Parameters Computed with a 3D Pattern. Lecture Notes in Computer Science, 2005, , 204-211.	1.0	2
57	WHEN SHOULD THE NON LINEAR CAMERA CALIBRATION BE CONSIDERED?. , 2005, , .		0
58	Analysis and evaluation of a real-time horticultural autonomous vehicle system. , 0, , .		0
59	Fusing 3D information for crop/weeds classification. , 0, , .		2
60	Robot-arm pick and place behavior programming system using visual perception. , 0, , .		12