Antonio-Jose Sanchez-Salmeron

List of Publications by Year
in descending order

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	Nondestructive assessment of freshness in packaged sliced chicken breasts using SW-NIR spectroscopy. Food Research International, 2011, 44, 331-337.	2.9	100
2	Robust metric calibration of non-linear camera lens distortion. Pattern Recognition, 2010, 43, 1688-1699.	5.1	82
3	Lens distortion models evaluation. Applied Optics, 2010, 49, 5914.	2.1	74
4	Detection of adulterations with different grains in wheat products based on the hyperspectral image technique: The specific cases of flour and bread. Food Control, 2016, 62, 373-380.	2.8	61
5	Detection of expired vacuum-packed smoked salmon based on PLS-DA method using hyperspectral images. Journal of Food Engineering, 2013, 117, 342-349.	2.7	47
6	Camera calibration under optimal conditions. Optics Express, 2011, 19, 10769.	1.7	45
7	Recent development in micro-handling systems for micro-manufacturing. Journal of Materials Processing Technology, 2005, 167, 499-507.	3.1	44
8	Assessment of grape cluster yield components based on 3D descriptors using stereo vision. Food Control, 2015, 50, 273-282.	2.8	43
9	Correcting non-linear lens distortion in cameras without using a model. Optics and Laser Technology, 2010, 42, 628-639.	2.2	40
10	Using the camera pin-hole model restrictions to calibrate the lens distortion model. Optics and Laser Technology, 2011, 43, 996-1005.	2.2	40
11	Control of ham salting by using image segmentation. Food Control, 2008, 19, 135-142.	2.8	37
12	Fall detection based on the gravity vector using a wide-angle camera. Expert Systems With Applications, 2014, 41, 7980-7986.	4.4	31
13	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. Measurement Science and Technology, 2015, 26, 095203.	1.4	24
14	Accurate calibration with highly distorted images. Applied Optics, 2012, 51, 89.	0.9	22
15	Physicochemical effects of chia (Salvia hispanica) seed flour on each wheat bread-making process phase and product storage. Journal of Cereal Science, 2015, 65, 67-73.	1.8	21
16	Shelf life prediction of expired vacuum-packed chilled smoked salmon based on a KNN tissue segmentation method using hyperspectral images. Journal of Food Engineering, 2016, 178, 110-116.	2.7	19
17	Hyperspectral image control of the heat-treatment process of oat flour to model composite bread properties. Journal of Food Engineering, 2017, 192, 45-52.	2.7	19
18	Continuous monitoring of bread dough fermentation using a 3D vision Structured Light technique. Journal of Food Engineering, 2014, 130, 8-13.	2.7	17

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19	Preliminary Study on the 3D Digitization of Millimeter Scale Products by Means of Photogrammetry. Procedia CIRP, 2015, 33, 257-262.	1.0	17
20	Calibration of a trinocular system formed with wide angle lens cameras. Optics Express, 2012, 20, 27691.	1.7	16
21	Efficient Lens Distortion Correction for Decoupling in Calibration of Wide Angle Lens Cameras. IEEE Sensors Journal, 2013, 13, 854-863.	2.4	16
22	Relationship between fermentation behavior, measured with a 3D vision Structured Light technique, and the internal structure of bread. Journal of Food Engineering, 2015, 146, 227-233.	2.7	16
23	Experimental investigation on camera calibration for 3D photogrammetric scanning of micro-features for micrometric resolution. International Journal of Advanced Manufacturing Technology, 2017, 91, 2935-2947.	1.5	16
24	Robot-arm pick and place behavior programming system using visual perception. , 0, , .		12
25	Improving lifespan automation for Caenorhabditis elegans by using image processing and a post-processing adaptive data filter. Scientific Reports, 2020, 10, 8729.	1.6	12
26	Small flexible automated system for monitoring Caenorhabditis elegans lifespan based on active vision and image processing techniques. Scientific Reports, 2021, 11, 12289.	1.6	12
27	Predicting Gilthead Sea Bream (Sparus aurata) Freshness by a Novel Combined Technique of 3D Imaging and SW-NIR Spectral Analysis. Sensors, 2016, 16, 1735.	2.1	10
28	Active backlight for automating visual monitoring: An analysis of a lighting control technique for Caenorhabditis elegans cultured on standard Petri plates. PLoS ONE, 2019, 14, e0215548.	1.1	10
29	Study of high strength wheat flours considering their physicochemical and rheological characterisation as well as fermentation capacity using SW-NIR imaging. Journal of Cereal Science, 2015, 62, 31-37.	1.8	8
30	Multiview motion tracking based on a cartesian robot to monitor Caenorhabditis elegans in standard Petri dishes. Scientific Reports, 2022, 12, 1767.	1.6	8
31	Industrial Robot Programming and UPnP Services Orchestration for the Automation of Factories. International Journal of Advanced Robotic Systems, 2012, 9, 123.	1.3	7
32	Comparison of TOF and SL techniques for in-line measurement of food item volume using animal and vegetable tissues. Food Control, 2013, 33, 221-226.	2.8	7
33	Spectral study of heat treatment process of wheat flour by VIS/SW-NIR image system. Journal of Cereal Science, 2016, 71, 99-107.	1.8	7
34	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
35	Calibration of a wide angle stereoscopic system. Optics Letters, 2011, 36, 3064.	1.7	6
36	Reducing Results Variance in Lifespan Machines: An Analysis of the Influence of Vibrotaxis on Wild-Type Caenorhabditis elegans for the Death Criterion. Sensors, 2020, 20, 5981.	2.1	6

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37	Towards Lifespan Automation for Caenorhabditis elegans Based on Deep Learning: Analysing Convolutional and Recurrent Neural Networks for Dead or Live Classification. Sensors, 2021, 21, 4943.	2.1	6
38	Improving skeleton algorithm for helping Caenorhabditis elegans trackers. Scientific Reports, 2020, 10, 22247.	1.6	6
39	Handling for Micro-Manufacturing. , 2010, , 298-314.		5
40	3D image based modelling for inspection of objects with micro-features, using inaccurate calibration patterns: an experimental contribution. International Journal on Interactive Design and Manufacturing, 2017, 11, 415-425.	1.3	5
41	Caenorhabditis elegans Multi-Tracker Based on a Modified Skeleton Algorithm. Sensors, 2021, 21, 5622.	2.1	5
42	Improved Camera Calibration Method Based on a Two-Dimensional Template. Lecture Notes in Computer Science, 2007, , 420-427.	1.0	5
43	Optimal conditions for camera calibration using a planar template. , 2011, , .		4
44	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
45	Handling for Micro-manufacturing. , 2015, , 637-659.		4
46	Multi-step approach for automated scaling of photogrammetric micro-measurements. International Journal of Advanced Manufacturing Technology, 2019, 102, 747-757.	1.5	3
47	Fusing 3D information for crop/weeds classification. , 0, , .		2
48	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
49	Preliminary study using visible and SW-NIR analysis for evaluating the loss of freshness in commercially packaged cooked ham and Turkey ham. Czech Journal of Food Sciences, 2014, 32, 376-383.	0.6	2
50	Uncertainty Analysis of Camera Parameters Computed with a 3D Pattern. Lecture Notes in Computer Science, 2005, , 204-211.	1.0	2
51	VISUAL-BASED HUMAN ACTION RECOGNITION ON SMART PHONES BASED ON 2D AND 3D DESCRIPTORS. International Journal of Pattern Recognition and Artificial Intelligence, 2012, 26, 1260009.	0.7	1
52	Dual Quaternions as Constraints in 4D-DPM Models for Pose Estimation. Sensors, 2017, 17, 1913.	2.1	1
53	A new training strategy for spatial transform networks (STNâ€™s). Neural Computing and Applications, 2022, 34, 10081-10092.	3.2	1
54	Analysis and evaluation of a real-time horticultural autonomous vehicle system. , 0, , .		0

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55	Improving accuracy and confidence interval of camera parameters estimated with a planar pattern. , 2005, , .		0
56	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
57	4-Dimensional deformation part model for pose estimation using Kalman filter constraints. International Journal of Advanced Robotic Systems, 2017, 14, 172988141771423.	1.3	0
58	WHEN SHOULD THE NON LINEAR CAMERA CALIBRATION BE CONSIDERED?. , 2005, , .		0
59	An Iterative Kalman Filter Approach to Camera Calibration. Lecture Notes in Computer Science, 2008, , 137-146.	1.0	0
60	Trabajo cooperativo basado en SCRUM para desarrollar proyectos distribuidos de visiÃ³n y robÃ³tica. , 2015, , .		0