

Gonzalo Pajares

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

129
papers

4,404
citations

31
h-index

64
g-index

144
ext. papers

5,261
ext. citations

4
avg, IF

6.1
L-index

#	Paper	IF	Citations
129	A wavelet-based image fusion tutorial. <i>Pattern Recognition</i> , 2004 , 37, 1855-1872	7.7	804
128	Overview and Current Status of Remote Sensing Applications Based on Unmanned Aerial Vehicles (UAVs). <i>Photogrammetric Engineering and Remote Sensing</i> , 2015 , 81, 281-330	1.6	404
127	Parameter identification of solar cells using artificial bee colony optimization. <i>Energy</i> , 2014 , 72, 93-102	7.9	262
126	Automatic segmentation of relevant textures in agricultural images. <i>Computers and Electronics in Agriculture</i> , 2011 , 75, 75-83	6.5	181
125	Real-time image processing for crop/weed discrimination in maize fields. <i>Computers and Electronics in Agriculture</i> , 2011 , 75, 337-346	6.5	151
124	Cross entropy based thresholding for magnetic resonance brain images using Crow Search Algorithm. <i>Expert Systems With Applications</i> , 2017 , 79, 164-180	7.8	132
123	Support Vector Machines for crop/weeds identification in maize fields. <i>Expert Systems With Applications</i> , 2012 , 39, 11149-11155	7.8	128
122	A Multilevel Thresholding algorithm using electromagnetism optimization. <i>Neurocomputing</i> , 2014 , 139, 357-381	5.4	113
121	A vision-based method for weeds identification through the Bayesian decision theory. <i>Pattern Recognition</i> , 2008 , 41, 521-530	7.7	101
120	Automatic detection of crop rows in maize fields with high weeds pressure. <i>Expert Systems With Applications</i> , 2012 , 39, 11889-11897	7.8	99
119	Fleets of robots for environmentally-safe pest control in agriculture. <i>Precision Agriculture</i> , 2017 , 18, 574-604	5.6	91
118	A computer vision approach for weeds identification through Support Vector Machines. <i>Applied Soft Computing Journal</i> , 2011 , 11, 908-915	7.5	89
117	Multilevel Thresholding Segmentation Based on Harmony Search Optimization. <i>Journal of Applied Mathematics</i> , 2013 , 2013, 1-24	1.1	86
116	A new vision-based approach to differential spraying in precision agriculture. <i>Computers and Electronics in Agriculture</i> , 2008 , 60, 144-155	6.5	77
115	A Hopfield neural network for image change detection. <i>IEEE Transactions on Neural Networks</i> , 2006 , 17, 1250-64		65
114	Automatic expert system for weeds/crops identification in images from maize fields. <i>Expert Systems With Applications</i> , 2013 , 40, 75-82	7.8	64
113	Automatic expert system based on images for accuracy crop row detection in maize fields. <i>Expert Systems With Applications</i> , 2013 , 40, 656-664	7.8	60

112	New trends in robotics for agriculture: integration and assessment of a real fleet of robots. <i>Scientific World Journal, The</i> , 2014 , 2014, 404059	2.2	59
111	A new Expert System for greenness identification in agricultural images. <i>Expert Systems With Applications</i> , 2013 , 40, 2275-2286	7.8	56
110	Multi-UAV target search using decentralized gradient-based negotiation with expected observation. <i>Information Sciences</i> , 2014 , 282, 92-110	7.7	53
109	Improving weed pressure assessment using digital images from an experience-based reasoning approach. <i>Computers and Electronics in Agriculture</i> , 2009 , 65, 176-185	6.5	49
108	Analysis of natural images processing for the extraction of agricultural elements. <i>Image and Vision Computing</i> , 2010 , 28, 138-149	3.7	47
107	Relaxation by Hopfield network in stereo image matching. <i>Pattern Recognition</i> , 1998 , 31, 561-574	7.7	43
106	Automatic detection of curved and straight crop rows from images in maize fields. <i>Biosystems Engineering</i> , 2017 , 156, 61-79	4.8	40
105	Mix-opt: A new route operator for optimal coverage path planning for a fleet in an agricultural environment. <i>Expert Systems With Applications</i> , 2016 , 54, 364-378	7.8	37
104	Digital image sensor-based assessment of the status of oat (<i>Avena sativa</i> L.) crops after frost damage. <i>Sensors</i> , 2011 , 11, 6015-36	3.8	35
103	Machine-Vision Systems Selection for Agricultural Vehicles: A Guide. <i>Journal of Imaging</i> , 2016 , 2, 34	3.1	33
102	Discrete wavelets transform for improving greenness image segmentation in agricultural images. <i>Computers and Electronics in Agriculture</i> , 2015 , 118, 396-407	6.5	32
101	Curved and straight crop row detection by accumulation of green pixels from images in maize fields. <i>Precision Agriculture</i> , 2018 , 19, 18-41	5.6	32
100	Improving multi-criterion optimization with chaos: a novel Multi-Objective Chaotic Crow Search Algorithm. <i>Neural Computing and Applications</i> , 2018 , 29, 319-335	4.8	31
99	A Hopfield Neural Network for combining classifiers applied to textured images. <i>Neural Networks</i> , 2010 , 23, 144-53	9.1	31
98	Integrating sensory/actuation systems in agricultural vehicles. <i>Sensors</i> , 2014 , 14, 4014-49	3.8	30
97	Crop row detection in maize fields inspired on the human visual perception. <i>Scientific World Journal, The</i> , 2012 , 2012, 484390	2.2	30
96	Mapping wide row crops with video sequences acquired from a tractor moving at treatment speed. <i>Sensors</i> , 2011 , 11, 7095-109	3.8	26
95	Noniterative interpolation-based super-resolution minimizing aliasing in the reconstructed image. <i>IEEE Transactions on Image Processing</i> , 2008 , 17, 1817-26	8.7	26

94	Fleets of robots for precision agriculture: a simulation environment. <i>Industrial Robot</i> , 2013 , 40, 41-58	1.4	24
93	Automatic expert system for 3D terrain reconstruction based on stereo vision and histogram matching. <i>Expert Systems With Applications</i> , 2014 , 41, 2043-2051	7.8	22
92	Improving segmentation velocity using an evolutionary method. <i>Expert Systems With Applications</i> , 2015 , 42, 5874-5886	7.8	21
91	Spatio-temporal analysis for obstacle detection in agricultural videos. <i>Applied Soft Computing Journal</i> , 2016 , 45, 86-97	7.5	21
90	Structural correlates of apathy in Alzheimer's disease: a multimodal MRI study. <i>International Journal of Geriatric Psychiatry</i> , 2017 , 32, 922-930	3.9	21
89	On-line crop/weed discrimination through the Mahalanobis distance from images in maize fields. <i>Biosystems Engineering</i> , 2018 , 166, 28-43	4.8	21
88	A multi-agent system architecture for sensor networks. <i>Sensors</i> , 2009 , 9, 10244-69	3.8	19
87	Stereo matching technique based on the perceptron criterion function. <i>Pattern Recognition Letters</i> , 1995 , 16, 933-944	4.7	19
86	An instance-based learning approach for thresholding in crop images under different outdoor conditions. <i>Computers and Electronics in Agriculture</i> , 2016 , 127, 669-679	6.5	19
85	Crop rows and weeds detection in maize fields applying a computer vision system based on geometry. <i>Computers and Electronics in Agriculture</i> , 2017 , 142, 461-472	6.5	18
84	Camera sensor arrangement for crop/weed detection accuracy in agronomic images. <i>Sensors</i> , 2013 , 13, 4348-66	3.8	18
83	Fuzzy Cognitive Maps for stereovision matching. <i>Pattern Recognition</i> , 2006 , 39, 2101-2114	7.7	18
82	White blood cell segmentation by circle detection using electromagnetism-like optimization. <i>Computational and Mathematical Methods in Medicine</i> , 2013 , 2013, 395071	2.8	17
81	Evaluation of a change detection methodology by means of binary thresholding algorithms and informational fusion processes. <i>Sensors</i> , 2012 , 12, 3528-61	3.8	17
80	A Neural Network model in stereovision matching. <i>Neural Networks</i> , 1995 , 8, 805-813	9.1	17
79	Improving Wishart Classification of Polarimetric SAR Data Using the Hopfield Neural Network Optimization Approach. <i>Remote Sensing</i> , 2012 , 4, 3571-3595	5	16
78	A segmentation method using Otsu and fuzzy k-Means for stereovision matching in hemispherical images from forest environments. <i>Applied Soft Computing Journal</i> , 2011 , 11, 4738-4747	7.5	15
77	On combining support vector machines and simulated annealing in stereovision matching. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2004 , 34, 1646-57		15

76	Minimum time search for lost targets using cross entropy optimization 2012 ,		14
75	On combining classifiers through a fuzzy multicriteria decision making approach: Applied to natural textured images. <i>Expert Systems With Applications</i> , 2009 , 36, 7262-7269	7.8	14
74	Grapheme-color synesthetes show peculiarities in their emotional brain: cortical and subcortical evidence from VBM analysis of 3D-T1 and DTI data. <i>Experimental Brain Research</i> , 2013 , 227, 343-53	2.3	13
73	A featured-based strategy for stereovision matching in sensors with fish-eye lenses for forest environments. <i>Sensors</i> , 2009 , 9, 9468-92	3.8	13
72	A stereovision matching strategy for images captured with fish-eye lenses in forest environments. <i>Sensors</i> , 2011 , 11, 1756-83	3.8	13
71	Search and retrieval of plasma wave forms: Structural pattern recognition approach. <i>Review of Scientific Instruments</i> , 2006 , 77, 10F514	1.7	13
70	Unassisted thresholding based on multi-objective evolutionary algorithms. <i>Knowledge-Based Systems</i> , 2018 , 159, 221-232	7.3	12
69	An image segmentation based on a genetic algorithm for determining soil coverage by crop residues. <i>Sensors</i> , 2011 , 11, 6480-92	3.8	12
68	Stereo matching based on the self-organizing feature-mapping algorithm. <i>Pattern Recognition Letters</i> , 1998 , 19, 319-330	4.7	12
67	Data mining technique for fast retrieval of similar waveforms in Fusion massive databases. <i>Fusion Engineering and Design</i> , 2008 , 83, 132-139	1.7	12
66	Relaxation labeling in stereo image matching. <i>Pattern Recognition</i> , 2000 , 33, 53-68	7.7	12
65	Recognition of a landing platform for unmanned aerial vehicles by using computer vision-based techniques. <i>Expert Systems With Applications</i> , 2017 , 76, 152-165	7.8	11
64	Comparative analysis of texture descriptors in maize fields with plants, soil and object discrimination. <i>Precision Agriculture</i> , 2017 , 18, 717-735	5.6	11
63	Using MILP for UAVs Trajectory Optimization under Radar Detection Risk 2006 ,		11
62	Searching for patterns in TJ-II time evolution signals. <i>Fusion Engineering and Design</i> , 2006 , 81, 1993-1997	1.7	11
61	Performance Analysis of Homomorphic Systems for Image Change Detection. <i>Lecture Notes in Computer Science</i> , 2005 , 563-570	0.9	11
60	Local stereovision matching through the ADALINE neural network. <i>Pattern Recognition Letters</i> , 2001 , 22, 1457-1473	4.7	11
59	Automatic computation of mandibular indices in dental panoramic radiographs for early osteoporosis detection. <i>Artificial Intelligence in Medicine</i> , 2020 , 103, 101816	7.4	9

58	Automatic image segmentation of greenness in crop fields 2010 ,		9
57	Reducing overlapped pixels: a multi-objective color thresholding approach. <i>Soft Computing</i> , 2020 , 24, 6787-6807	3.5	9
56	Template matching using an improved electromagnetism-like algorithm. <i>Applied Intelligence</i> , 2014 , 41, 791-807	4.9	8
55	Improving the Wishart Synthetic Aperture Radar image classifications through Deterministic Simulated Annealing. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2011 , 66, 845-857	11.8	8
54	Stereovision matching through support vector machines. <i>Pattern Recognition Letters</i> , 2003 , 24, 2575-2583	4.7	8
53	Combining Support Vector Machines and simulated annealing for stereovision matching with fish eye lenses in forest environments. <i>Expert Systems With Applications</i> , 2011 , 38, 8622-8631	7.8	7
52	A Vision-Based Hybrid Classifier for Weeds Detection in Precision Agriculture Through the Bayesian and Fuzzy k-Means Paradigms. <i>Advances in Intelligent and Soft Computing</i> , 2007 , 72-79		7
51	Fuzzy Cognitive Maps Applied to Computer Vision Tasks. <i>Studies in Fuzziness and Soft Computing</i> , 2010 , 259-289	0.7	7
50	A computational approach inspired by simulated annealing to study the stability of protein interaction networks in cancer and neurological disorders. <i>Data Mining and Knowledge Discovery</i> , 2016 , 30, 226-242	5.6	6
49	Modelling knowledge strategy for solving the DNA sequence annotation problem through CommonKADS methodology. <i>Expert Systems With Applications</i> , 2013 , 40, 3943-3952	7.8	6
48	A Multi-Agent System Architecture for Sensor Networks 2011 ,		6
47	Combining classifiers through fuzzy cognitive maps in natural images. <i>IET Computer Vision</i> , 2009 , 3, 112	1.4	6
46	Generaci3n de trayectorias y toma de decisiones para uavs. <i>RIAI - Revista Iberoamericana De Automatica E Informatica Industrial</i> , 2008 , 5, 83-92	1.5	6
45	Design of a computer vision system for a differential spraying operation in precision agriculture using Hebbian learning. <i>IET Computer Vision</i> , 2007 , 1, 93-99	1.4	6
44	First applications of structural pattern recognition methods to the investigation of specific physical phenomena at JET. <i>Fusion Engineering and Design</i> , 2008 , 83, 467-470	1.7	6
43	Automated clustering procedure for TJ-II experimental signals. <i>Fusion Engineering and Design</i> , 2006 , 81, 1987-1991	1.7	6
42	Minimum Time Search in Real-World Scenarios Using Multiple UAVs with Onboard Orientable Cameras. <i>Journal of Sensors</i> , 2019 , 2019, 1-22	2	5
41	Image change detection from difference image through deterministic simulated annealing. <i>Pattern Analysis and Applications</i> , 2009 , 12, 137-150	2.3	5

40	Real-time image processing for the guidance of a small agricultural field inspection vehicle. <i>International Journal of Intelligent Systems Technologies and Applications</i> , 2010 , 8, 434	0.5	5
39	Improving stereovision matching through supervised learning. <i>Pattern Analysis and Applications</i> , 1998 , 1, 105-120	2.3	5
38	Real-time Image Processing for the Guidance of a Small Agricultural Field Inspection Vehicle 2008 ,		5
37	Decision making among alternative routes for UAVs in dynamic environments 2007 ,		5
36	A Vision-based Classifier in Precision Agriculture Combining Bayes and Support Vector Machines 2007 ,		5
35	Stereo matching using Hebbian learning. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1999 , 29, 553-9		5
34	On Combining Convolutional Autoencoders and Support Vector Machines for Fault Detection in Industrial Textures. <i>Sensors</i> , 2021 , 21,	3.8	5
33	Expert system for clustering prokaryotic species by their metabolic features. <i>Expert Systems With Applications</i> , 2013 , 40, 6185-6194	7.8	4
32	Vertical rotor for the implementation of control laws. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 224-229		4
31	The non-parametric Parzen window in stereo vision matching. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2002 , 32, 225-30		4
30	Acquisition of Agronomic Images with Sufficient Quality by Automatic Exposure Time Control and Histogram Matching. <i>Lecture Notes in Computer Science</i> , 2013 , 37-48	0.9	4
29	Mejora del Proceso de Correspondencia en Imágenes Estereoscópicas Mediante Filtrado Homomórfico y Agrupaciones de Disparidad. <i>RIAI - Revista Iberoamericana De Automatica E Informatica Industrial</i> , 2013 , 10, 178-184	1.5	3
28	Image-Based Airborne Sensors: A Combined Approach for Spectral Signatures Classification through Deterministic Simulated Annealing. <i>Sensors</i> , 2009 , 9, 7132-49	3.8	3
27	New unsupervised hybrid classifier based on the fuzzy integral: applied to natural textured images. <i>IET Computer Vision</i> , 2013 , 7, 272-278	1.4	2
26	A new learning strategy for stereo matching derived from a fuzzy clustering method. <i>Fuzzy Sets and Systems</i> , 2000 , 110, 413-427	3.7	2
25	Combination of Attributes in Stereovision Matching for Fish-Eye Lenses in Forest Analysis. <i>Lecture Notes in Computer Science</i> , 2009 , 277-287	0.9	2
24	Visual Control of a Remote Vehicle. <i>Lecture Notes in Computer Science</i> , 2011 , 579-588	0.9	2
23	A Matlab-Based Testbed for Integration, Evaluation and Comparison of Heterogeneous Stereo Vision Matching Algorithms. <i>Robotics</i> , 2016 , 5, 24	2.8	2

22	A new Concentric Circles Detection method for Object Detection applied to Radar Images. <i>Journal of Navigation</i> , 2019 , 72, 1070-1088	2.3	2
21	Vegetation Segmentation in Cornfield Images Using Bag of Words. <i>Lecture Notes in Computer Science</i> , 2016 , 193-204	0.9	1
20	Autonomy for ground-level robotic space exploration: framework, simulation, architecture, algorithms and experiments. <i>Robotica</i> , 2016 , 34, 274-305	2.1	1
19	Fuzzy Multi-Criteria Decision Making in Stereovision Matching for Fish-Eye Lenses in Forest Analysis. <i>Lecture Notes in Computer Science</i> , 2009 , 325-332	0.9	1
18	Robust Super-Resolution Using a Median Filter for Irregular Samples. <i>Lecture Notes in Computer Science</i> , 2009 , 298-305	0.9	1
17	Design of a Hybrid Classifier for Natural Textures in Images from the Bayesian and Fuzzy Paradigms 2007 ,		1
16	A New Unsupervised Hybrid Classifier for Natural Textures in Images. <i>Advances in Intelligent and Soft Computing</i> , 2007 , 280-287		1
15	A Probabilistic Neural Network for Attribute Selection in Stereovision Matching. <i>Neural Computing and Applications</i> , 2002 , 11, 83-89	4.8	1
14	A Neural Network Model for Image Change Detection Based on Fuzzy Cognitive Maps. <i>Lecture Notes in Computer Science</i> , 2007 , 595-602	0.9	1
13	Fuzzy Cognitive Maps Applied to Synthetic Aperture Radar Image Classifications. <i>Lecture Notes in Computer Science</i> , 2011 , 103-114	0.9	1
12	Computational Intelligence in Image Processing 2018. <i>Mathematical Problems in Engineering</i> , 2018 , 2018, 1-3	1.1	1
11	Choquet Fuzzy Integral Applied to Stereovision Matching for Fish-Eye Lenses in Forest Analysis. <i>Advances in Intelligent and Soft Computing</i> , 2009 , 179-187		0
10	Hyperparameter Optimization in a Convolutional Neural Network Using Metaheuristic Algorithms. <i>Studies in Computational Intelligence</i> , 2021 , 37-59	0.8	0
9	Computational Intelligence in Image Processing 2014. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-3	1.1	
8	Computational Intelligence in Image Processing. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-3	1.1	
7	On combining vision-based hybrid classifiers for weeds detection in precision agriculture. <i>International Journal of Reasoning-based Intelligent Systems</i> , 2010 , 2, 100	0.4	
6	On Combining Classifiers by Relaxation for Natural Textures in Images. <i>Lecture Notes in Computer Science</i> , 2008 , 345-352	0.9	
5	Pattern recognition learning applied to stereovision matching. <i>Lecture Notes in Computer Science</i> , 1998 , 997-1004	0.9	

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| 4 | The Effect of the Normalization Strategy on Voxel-Based Analysis of DTI Images: A Pattern Recognition Based Assessment. <i>Lecture Notes in Computer Science</i> , 2010 , 78-88 | 0.9 |
| 3 | A Combined Strategy Using FMCDM for Textures Segmentation in Hemispherical Images from Forest Environments. <i>Lecture Notes in Computer Science</i> , 2011 , 323-332 | 0.9 |
| 2 | Performance Analysis of Fuzzy Aggregation Operations for Combining Classifiers for Natural Textures in Images. <i>Lecture Notes in Computer Science</i> , 2011 , 180-188 | 0.9 |
| 1 | Computational Intelligence in Image Processing 2016. <i>Mathematical Problems in Engineering</i> , 2016 , 2016, 1-3 | 1.1 |