

Roberto Marcondes Cesar Junior

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

2,941
citations

279798

23
h-index

182427

51
g-index

96
all docs

96
docs citations

96
times ranked

2690
citing authors

#	ARTICLE	IF	CITATIONS
1	Retinal vessel segmentation using the 2-D Gabor wavelet and supervised classification. IEEE Transactions on Medical Imaging, 2006, 25, 1214-1222.	8.9	1,229
2	Inference from Clustering with Application to Gene-Expression Microarrays. Journal of Computational Biology, 2002, 9, 105-126.	1.6	150
3	Identification of Protein Coding Regions Using the Modified Gabor-Wavelet Transform. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2008, 5, 198-207.	3.0	103
4	Inexact graph matching for model-based recognition: Evaluation and comparison of optimization algorithms. Pattern Recognition, 2005, 38, 2099-2113.	8.1	74
5	scriptLattes: an open-source knowledge extraction system from the Lattes platform. Journal of the Brazilian Computer Society, 2009, 15, 31-39.	1.3	70
6	On the ternary spatial relation "Between". IEEE Transactions on Systems, Man, and Cybernetics, 2006, 36, 312-327.	5.0	59
7	Brazilian bibliometric coauthorship networks. Journal of the Association for Information Science and Technology, 2014, 65, 1424-1445.	2.9	59
8	Automated segmentation of retinal blood vessels and identification of proliferative diabetic retinopathy. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 1448.	1.5	55
9	Shape characterization with the wavelet transform. Signal Processing, 1997, 62, 265-290.	3.7	54
10	Interactive image segmentation by matching attributed relational graphs. Pattern Recognition, 2012, 45, 1159-1179.	8.1	49
11	Feature selection environment for genomic applications. BMC Bioinformatics, 2008, 9, 451.	2.6	46
12	Application and assessment of multiscale bending energy for morphometric characterization of neural cells. Review of Scientific Instruments, 1997, 68, 2177-2186.	1.3	45
13	A feature selection technique for inference of graphs from their known topological properties: Revealing scale-free gene regulatory networks. Information Sciences, 2014, 272, 1-15.	6.9	44
14	Towards effective planar shape representation with multiscale digital curvature analysis based on signal processing techniques. Pattern Recognition, 1996, 29, 1559-1569.	8.1	43
15	Blood vessels segmentation in retina: preliminary assessment of the mathematical morphology and of the wavelet transform techniques. , 2001, , .		39
16	Gene Expression Complex Networks: Synthesis, Identification, and Analysis. Journal of Computational Biology, 2011, 18, 1353-1367.	1.6	37
17	A Comprehensive Benchmark Analysis of Single Image Deraining: Current Challenges and Future Perspectives. International Journal of Computer Vision, 2021, 129, 1301-1322.	15.6	37
18	A comparative analysis of structure and spatial distribution of decorin in human leiomyoma and normal myometrium. Biochimica Et Biophysica Acta - General Subjects, 2003, 1619, 98-112.	2.4	35

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19	Inference of gene regulatory networks from time series by Tsallis entropy. BMC Systems Biology, 2011, 5, 61.	3.0	33
20	ScriptLattes: an open-source knowledge extraction system from the Lattes platform. Journal of the Brazilian Computer Society, 2009, 15, 31-39.	1.3	33
21	Detection and Tracking of Facial Features in Video Sequences. Lecture Notes in Computer Science, 2000, , 127-135.	1.3	28
22	Neural cell classification by Wavelets and multiscale curvature. Biological Cybernetics, 1998, 79, 347-360.	1.3	27
23	A wavelet subspace method for real-time face tracking. Real Time Imaging, 2004, 10, 339-350.	1.6	27
24	W-operator window design by minimization of mean conditional entropy. Pattern Analysis and Applications, 2006, 9, 139-153.	4.6	26
25	Graph-based Object Tracking Using Structural Pattern Recognition. , 2007, , .		25
26	Approximate reflectional symmetries of fuzzy objects with an application in model-based object recognition. Fuzzy Sets and Systems, 2004, 147, 141-163.	2.7	24
27	Automatic contour extraction from 2D neuron images. Journal of Neuroscience Methods, 2009, 177, 497-509.	2.5	21
28	Sexual dimorphism in the Japanese cranial base: A Fourier-wavelet representation. American Journal of Physical Anthropology, 2005, 128, 608-622.	2.1	20
29	A two-level Markov random field for road network extraction and its application with optical, SAR, and multitemporal data. International Journal of Remote Sensing, 2016, 37, 3584-3610.	2.9	20
30	Exploring structure for long-term tracking of multiple objects in sports videos. Computer Vision and Image Understanding, 2017, 159, 89-104.	4.7	20
31	Piecewise Linear Segmentation of Digital Contours in $O(N \cdot \log(N))$ Through a Technique Based on Effective Digital Curvature Estimation. Real Time Imaging, 1995, 1, 409-417.	1.6	19
32	Structural matching of 2D electrophoresis gels using deformed graphs. Pattern Recognition Letters, 2011, 32, 3-11.	4.2	18
33	1D and 2D Fourier-based approaches to numeric curvature estimation and their comparative performance assessment. , 2003, 13, 172-197.		17
34	Entropic Biological Score: a cell cycle investigation for GRNs inference. Gene, 2014, 541, 129-137.	2.2	17
35	Computer-vision-based extraction of neural dendrograms. Journal of Neuroscience Methods, 1999, 93, 121-131.	2.5	16
36	Modeling and measuring the spatial relation "along" Regions, contours and fuzzy sets. Pattern Recognition, 2012, 45, 757-766.	8.1	16

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37	An environment for knowledge discovery in biology. Computers in Biology and Medicine, 2004, 34, 427-447.	7.0	15
38	Efficient real-time face tracking in wavelet subspace. , 0, , .		14
39	Blood vessels segmentation in nonmydriatic images using wavelets and statistical classifiers. , 0, , .		14
40	A Fourier-wavelet representation of 2-D shapes: sexual dimorphism in the Japanese cranial base. Anthropological Science, 2004, 112, 3-28.	0.4	14
41	AUTOMATED MORPHOMETRIC ANALYSIS OF THE CAT RETINAL $\hat{1}_{\pm}/\gamma$, $\hat{1}^2/\chi$ AND $\hat{1}$ GANGLION CELLS USING WAVELET STATISTICAL MOMENT AND CLUSTERING ALGORITHMS. Journal of Integrative Neuroscience, 2004, 03, 415-432.	1.7	11
42	Two-Dimensional Wavelet Analysis of Supraorbital Margins of the Human Skull for Characterizing Sexual Dimorphism. IEEE Transactions on Information Forensics and Security, 2016, 11, 1542-1548.	6.9	11
43	AGN Simulation and Validation Model. Lecture Notes in Computer Science, 2008, , 169-173.	1.3	11
44	Title is missing!. Brain and Mind, 2003, 4, 67-90.	0.6	10
45	SFFS-MR: A Floating Search Strategy for GRNs Inference. Lecture Notes in Computer Science, 2010, , 407-418.	1.3	10
46	Image Segmentation Using Component Tree and Normalized Cut. , 2010, , .		9
47	A hierarchical Markov random field for road network extraction and its application with optical and SAR data. , 2011, , .		9
48	3D face computational photography using PCA spaces. Visual Computer, 2009, 25, 899-909.	3.5	8
49	Signal propagation in Bayesian networks and its relationship with intrinsically multivariate predictive variables. Information Sciences, 2013, 225, 18-34.	6.9	8
50	Object Detection by Keygraph Classification. Lecture Notes in Computer Science, 2009, , 223-232.	1.3	8
51	Assessing the gain of biological data integration in gene networks inference. BMC Genomics, 2012, 13, S7.	2.8	7
52	Morphological Neuron Classification Based on Dendritic Tree Hierarchy. Neuroinformatics, 2019, 17, 147-161.	2.8	7
53	3D facial expression analysis by using 2D AND 3D wavelet transforms. , 2011, , .		6
54	Eigenfaces Versus Eigeneyes: First Steps Toward Performance Assessment of Representations for Face Recognition. Lecture Notes in Computer Science, 2000, , 193-201.	1.3	6

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55	Morphometrical data analysis using wavelets. Real Time Imaging, 2004, 10, 239-250.	1.6	5
56	Tracking and Matching Connected Components from 3D Video. , 2005, , .		5
57	Structural Image Segmentation with Interactive Model Generation. , 2007, , .		5
58	PCA-Based 3D Face Photography. , 2008, , .		5
59	Comparative study of GRNS inference methods based on feature selection by mutual information. , 2009, , .		5
60	Generating segmented meshes from textured color images. Journal of Visual Communication and Image Representation, 2009, 20, 190-203.	2.8	5
61	Quadtree-Based Inexact Graph Matching for Image Analysis. , 2005, , .		4
62	Local approach for face verification in polar frequency domain. Image and Vision Computing, 2006, 24, 904-913.	4.5	4
63	A Backmapping Approach for Graph-Based Object Tracking. , 2008, , .		4
64	Evaluation of retinal vessel segmentation methods for microaneurysms detection. , 2009, , .		4
65	Face Verification in Polar Frequency Domain: A Biologically Motivated Approach. Lecture Notes in Computer Science, 2005, , 183-190.	1.3	4
66	3D morphological analysis of brain MRI using wavelets. , 0, , .		3
67	Shape characterization by using the Gabor transform. , 0, , .		3
68	“Synergetic Vision Research. Real-Time Systems, 2001, 21, 7-41.	1.3	3
69	A feature selection approach for identification of signature genes from SAGE data. BMC Bioinformatics, 2007, 8, 169.	2.6	3
70	Wi-Fi and keygraphs for localization with cell phones. , 2011, , .		3
71	Visual rhythm-based plankton detection method for ballast water quality assessment. , 2012, , .		3
72	Characterization of neuroanatomic structures using 3D wavelet-based normal fields. , 2003, , .		2

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73	W-operator window design by maximization of training data information. , 0, , .		2
74	Automatic Face Recognition System Based on Local Fourier-Bessel Feature. , 2005, , .		2
75	Structural Matching of 2D Electrophoresis Gels using Graph Models. , 2008, , .		2
76	Towards a quantitative academic internationalization assessment of Brazilian research groups. , 2012, , .		2
77	Using Text Similarity to Detect Social Interactions not Captured by Formal Reply Mechanisms. , 2015, , .		2
78	Automatic Window Design for Gray-Scale Image Processing Based on Entropy Minimization. Lecture Notes in Computer Science, 2005, , 813-824.	1.3	2
79	Human and Machine Recognition of Fourier-Bessel Filtered Face Images. , 0, , .		1
80	A novel polar-based human face recognition computational model. Brazilian Journal of Medical and Biological Research, 2009, 42, 637-646.	1.5	1
81	Data-oriented research for bioresource utilization: A case study to investigate water uptake in cellulose using Principal Components. , 2012, , .		1
82	Visual rhythm for particle analysis in sampleâ€™inâ€™flow systems: Application for continuous plankton monitoring. Limnology and Oceanography: Methods, 2015, 13, 687-696.	2.0	1
83	Data-intensive analysis of HIV mutations. BMC Bioinformatics, 2015, 16, 35.	2.6	1
84	<title>Time series inference from clustering</title>. , 2001, , .		0
85	Determining the branchings of 3D structures from respective 2D projections. Computer Graphics and Image Processing (SIBGRAPI), Proceedings of the Brazilian Symposium on, 2006, , .	0.0	0
86	Revealing temporal genetic regulatory networks from steady-state distributions. , 2009, , .		0
87	A methodology to infer gene networks from spatial patterns of expression â€™ an application to fluorescence in situ hybridization images. Molecular BioSystems, 2013, 9, 1926.	2.9	0
88	Scalable object instance recognition based on keygraph matching. Pattern Recognition Letters, 2018, 114, 53-62.	4.2	0