

Silvio J F Guimaraes

List of Publications by Year in descending order

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85
papers

552
citations

840119

11
h-index

752256

20
g-index

91
all docs

91
docs citations

91
times ranked

421
citing authors

#	ARTICLE	IF	CITATIONS
1	Video segmentation based on 2D image analysis. Pattern Recognition Letters, 2003, 24, 947-957.	2.6	57
2	Hierarchical Segmentations with Graphs: Quasi-flat Zones, Minimum Spanning Trees, and Saliency Maps. Journal of Mathematical Imaging and Vision, 2018, 60, 479-502.	0.8	46
3	A mid-level video representation based on binary descriptors: A case study for pornography detection. Neurocomputing, 2016, 213, 102-114.	3.5	42
4	Summarizing video sequence using a graph-based hierarchical approach. Neurocomputing, 2016, 173, 1001-1016.	3.5	30
5	A Hierarchical Image Segmentation Algorithm Based on an Observation Scale. Lecture Notes in Computer Science, 2012, , 116-125.	1.0	29
6	Evaluation of Hierarchical Watersheds. IEEE Transactions on Image Processing, 2018, 27, 1676-1688.	6.0	27
7	Graph-based hierarchical video segmentation based on a simple dissimilarity measure. Pattern Recognition Letters, 2014, 47, 85-92.	2.6	20
8	Image segmentation using dense and sparse hierarchies of superpixels. Pattern Recognition, 2020, 108, 107532.	5.1	18
9	Efficient Unsupervised Band Selection Through Spectral Rhythms. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 1016-1025.	7.3	17
10	Fight Detection in Video Sequences Based on Multi-Stream Convolutional Neural Networks. , 2019, , .		17
11	Superpixel Segmentation Using Dynamic and Iterative Spanning Forest. IEEE Signal Processing Letters, 2020, 27, 1440-1444.	2.1	17
12	Evaluation of Morphological Hierarchies for Supervised Segmentation. Lecture Notes in Computer Science, 2015, , 39-50.	1.0	15
13	Multi-Stream Deep Convolutional Network Using High-Level Features Applied to Fall Detection in Video Sequences. , 2019, , .		15
14	Removing non-significant regions in hierarchical clustering and segmentation. Pattern Recognition Letters, 2019, 128, 433-439.	2.6	11
15	Representing local binary descriptors with BossaNova for visual recognition. , 2014, , .		10
16	Combining convolutional side-outputs for road image segmentation. , 2019, , .		10
17	A NEW DISSIMILARITY MEASURE FOR CUT DETECTION USING BIPARTITE GRAPH MATCHING. International Journal of Semantic Computing, 2009, 03, 155-181.	0.4	9
18	Efficient hierarchical graph partitioning for image segmentation by optimum oriented cuts. Pattern Recognition Letters, 2020, 131, 185-192.	2.6	9

#	ARTICLE	IF	CITATIONS
19	Morphological Residues and a General Framework for Image Filtering and Segmentation. Eurasip Journal on Advances in Signal Processing, 2001, 2001, 219-229.	1.0	9
20	A method for cut detection based on visual rhythm. , 0, , .		8
21	Hierarchizing graph-based image segmentation algorithms relying on region dissimilarity. Mathematical Morphology - Theory and Applications, 2017, 2, .	0.6	7
22	A Static Video Summarization Method Based on Hierarchical Clustering. Lecture Notes in Computer Science, 2010, , 46-54.	1.0	7
23	Towards large scale multimedia indexing. , 2017, , .		6
24	Towards Interactive Image Segmentation by Dynamic and Iterative Spanning Forest. Lecture Notes in Computer Science, 2021, , 351-364.	1.0	6
25	Hierarchical Video Segmentation Using an Observation Scale. , 2013, , .		5
26	Unsupervised Hyperspectral Band Selection Based on Spectral Rhythm Analysis. , 2014, , .		5
27	Superpixel Segmentation by Object-Based Iterative Spanning Forest. Lecture Notes in Computer Science, 2019, , 334-341.	1.0	5
28	The Importance of Object-Based Seed Sampling for Superpixel Segmentation. , 2019, , .		5
29	Proposal of Fibonacci Heap in the Dijkstra Algorithm for Low-power Ad-hoc Mobile Transmissions. IEEE Latin America Transactions, 2020, 18, 623-630.	1.2	5
30	A comprehensive review of the video-to-text problem. Artificial Intelligence Review, 2022, 55, 4165-4239.	9.7	5
31	Gradual transition detection based on bipartite graph matching approach. , 2009, , .		4
32	Graph-Based Hierarchical Video Summarization Using Global Descriptors. , 2014, , .		4
33	Towards a Simple and Efficient Object-based Superpixel Delineation Framework. , 2021, , .		4
34	A directional and parametrized transition detection algorithm based on morphological residues. , 0, , .		3
35	A Simple Hierarchical Clustering Method for Improving Flame Pixel Classification. , 2011, , .		3
36	Exploring quantization error to improve human action classification. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
37	Efficient Algorithms for Hierarchical Graph-Based Segmentation Relying on the Felzenszwalb-Huttenlocher Dissimilarity. International Journal of Pattern Recognition and Artificial Intelligence, 2019, 33, 1940008.	0.7	3
38	Graph-Based Supervoxel Computation from Iterative Spanning Forest. Lecture Notes in Computer Science, 2021, , 404-415.	1.0	3
39	Hierarchical Image Segmentation Relying on a Likelihood Ratio Test. Lecture Notes in Computer Science, 2015, , 25-35.	1.0	3
40	A Collaborative Learning Approach And its Evaluation. , 2006, , 333-337.		3
41	<title>New approach for old movie restoration</title>. , 2001, 4308, 67.		2
42	Video text extraction based on image regularization and temporal analysis. , 2011, , .		2
43	Streaming Graph-Based Hierarchical Video Segmentation by a Simple Label Propagation. , 2015, , .		2
44	Video similarity search by using compact representations. , 2016, , .		2
45	Combining pixel domain and compressed domain index for sketch based image retrieval. Multimedia Tools and Applications, 2017, 76, 22019-22042.	2.6	2
46	Evaluation of Scale-Aware Realignment of Hierarchical Image Segmentation. Lecture Notes in Computer Science, 2019, , 141-149.	1.0	2
47	Hierarchical segmentation from a non-increasing edge observation attribute. Pattern Recognition Letters, 2020, 131, 105-112.	2.6	2
48	Hierarchical multi-label propagation using speaking face graphs for multimodal person discovery. Multimedia Tools and Applications, 2021, 80, 2797-2820.	2.6	2
49	Erratum to "Hierarchizing graph-based image segmentation algorithms relying on region dissimilarity: the case of the Felzenszwalb-Huttenlocher method". Mathematical Morphology - Theory and Applications, 2019, 3, 71.	0.6	2
50	Old movie restoration using opening by surface. , 0, , .		1
51	Image decomposition in morphological residues: an approach for image filtering and segmentation. , 0, , .		1
52	Counting of Video Clip Repetitions using a Modified BMH Algorithm: Preliminary Results. , 2006, , .		1
53	Bipartite graph matching for video clip localization. , 2007, , .		1
54	A Rotation and Translation Invariant Algorithm for Cut Detection Using Bipartite Graph Matching. , 2008, , .		1

#	ARTICLE	IF	CITATIONS
55	Identification of video subsequence using bipartite graph matching. Journal of the Brazilian Computer Society, 2011, 17, 175-192.	0.8	1
56	A two-step video subsequence identification based on bipartite graph matching. , 2012, , .		1
57	Phenological Event Detection by Visual Rhythms Dissimilarity Analysis. , 2014, , .		1
58	An efficient access method for multimodal video retrieval. Multimedia Tools and Applications, 2015, 74, 1357-1375.	2.6	1
59	Decreasing the Number of Features for Improving Human Action Classification. , 2016, , .		1
60	Near-duplicate video detection based on an approximate similarity self-join strategy. , 2016, , .		1
61	Tag Propagation Approaches within Speaking Face Graphs for Multimodal Person Discovery. , 2017, , .		1
62	Evaluation of morphological hierarchies for supervised video segmentation. , 2018, , .		1
63	Evaluation of Bag-of-Word Performance for Time Series Classification Using Discriminative SIFT-Based Mid-Level Representations. Lecture Notes in Computer Science, 2019, , 109-116.	1.0	1
64	Learning to realign hierarchy for image segmentation. Pattern Recognition Letters, 2020, 133, 287-294.	2.6	1
65	Label Propagation Guided by Hierarchy of Partitions for Superpixel Computation. Lecture Notes in Computer Science, 2019, , 3-13.	1.0	1
66	An Unified Transition Detection Based on Bipartite Graph Matching Approach. Lecture Notes in Computer Science, 2010, , 184-192.	1.0	1
67	Human Action Classification Using an Extended BoW Formalism. Lecture Notes in Computer Science, 2017, , 185-196.	1.0	1
68	A Study of Observation Scales Based on Felzenswalb-Huttenlocher Dissimilarity Measure for Hierarchical Segmentation. Lecture Notes in Computer Science, 2019, , 167-179.	1.0	1
69	<title>Nonlinear features extraction applied to pollen grain images</title>. , 2001, , .		0
70	Flat Zone Analysis and a Sharpening Operation for Gradual Transition Detection on Video Images. Eurasip Journal on Advances in Signal Processing, 2004, 2004, 1.	1.0	0
71	An approach for video cut detection using bipartite graph matching as dissimilarity distance. , 2008, , .		0
72	Searching for Near-Duplicate Video Sequences from a Scalable Sequence Aligner. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
73	An efficient access method for multimodal video retrieval. , 2013, , .		0
74	Gameplay Genre Video Classification by Using Mid-Level Video Representation. , 2016, , .		0
75	Stochastic Hierarchical Watershed Cut Based on Disturbed Topographical Surface. , 2016, , .		0
76	Using Graph Homomorphisms for Vertex Classification Analysis in Social Networks. , 2017, , .		0
77	A New Pooling Strategy Based on Local Feature Distribution: A Case Study for Human Action Classification. , 2017, , .		0
78	Hierarchy-Based Salient Regions: A Region Detector Based on Hierarchies of Partitions. Lecture Notes in Computer Science, 2019, , 444-452.	1.0	0
79	Hierarchical Graph-Based Segmentation in Detection of Object-Related Regions. Lecture Notes in Computer Science, 2019, , 124-132.	1.0	0
80	Exploring Hierarchy Simplification for Non-Significant Region Removal. , 2019, , .		0
81	High-Level Descriptors for Fall Event Detection Supported by a Multi-Stream Network. International Journal of Electrical and Computer Engineering Systems, 2021, 12, 11-21.	0.5	0
82	Re-ranking of the Merging Order for Hierarchical Image Segmentation. Lecture Notes in Computer Science, 2015, , 375-382.	1.0	0
83	Kernel Combination Through Genetic Programming for Image Classification. Lecture Notes in Computer Science, 2015, , 314-321.	1.0	0
84	BRIEF-Based Mid-Level Representations for Time Series Classification. Lecture Notes in Computer Science, 2019, , 449-457.	1.0	0
85	New hierarchy-based segmentation layer: towards automatic marker proposal. , 2021, , .		0