Silvio J F Guimaraes

List of Publications by Year
in descending order

85	552	840119 11	752256 20
papers	citations	h-index	g-index

91	91	91	421
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A comprehensive review of the video-to-text problem. Artificial Intelligence Review, 2022, 55, 4165-4239.	9.7	5
2	Hierarchical multi-label propagation using speaking face graphs for multimodal person discovery. Multimedia Tools and Applications, 2021, 80, 2797-2820.	2.6	2
3	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
4	Graph-Based Supervoxel Computation from Iterative Spanning Forest. Lecture Notes in Computer Science, 2021, , 404-415.	1.0	3
5	Towards Interactive Image Segmentation by Dynamic and Iterative Spanning Forest. Lecture Notes in Computer Science, 2021, , 351-364.	1.0	6
6	Towards a Simple and Efficient Object-based Superpixel Delineation Framework. , 2021, , .		4
7	New hierarchy-based segmentation layer: towards automatic marker proposal. , 2021, , .		0
8	Hierarchical segmentation from a non-increasing edge observation attribute. Pattern Recognition Letters, 2020, 131, 105-112.	2.6	2
9	Superpixel Segmentation Using Dynamic and Iterative Spanning Forest. IEEE Signal Processing Letters, 2020, 27, 1440-1444.	2.1	17
10	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
11	Learning to realign hierarchy for image segmentation. Pattern Recognition Letters, 2020, 133, 287-294.	2.6	1
12	Image segmentation using dense and sparse hierarchies of superpixels. Pattern Recognition, 2020, 108, 107532.	5.1	18
13	Efficient hierarchical graph partitioning for image segmentation by optimum oriented cuts. Pattern Recognition Letters, 2020, 131, 185-192.	2.6	9
14	Multi-Stream Deep Convolutional Network Using High-Level Features Applied to Fall Detection in Video Sequences. , 2019, , .		15
15	Removing non-significant regions in hierarchical clustering and segmentation. Pattern Recognition Letters, 2019, 128, 433-439.	2.6	11
16	Hierarchy-Based Salient Regions: A Region Detector Based on Hierarchies of Partitions. Lecture Notes in Computer Science, 2019, , 444-452.	1.0	0
17	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
18	Superpixel Segmentation by Object-Based Iterative Spanning Forest. Lecture Notes in Computer Science, 2019, , 334-341.	1.0	5

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19	Hierarchical Graph-Based Segmentation in Detection of Object-Related Regions. Lecture Notes in Computer Science, 2019, , 124-132.	1.0	0
20	Evaluation of Scale-Aware Realignments of Hierarchical Image Segmentation. Lecture Notes in Computer Science, 2019, , 141-149.	1.0	2
21	Exploring Hierarchy Simplification for Non-Significant Region Removal. , 2019, , .		0
22	The Importance of Object-Based Seed Sampling for Superpixel Segmentation. , 2019, , .		5
23	Combining convolutional side-outputs for road image segmentation. , 2019, , .		10
24	Fight Detection in Video Sequences Based on Multi-Stream Convolutional Neural Networks. , 2019, , .		17
25	Efficient Algorithms for Hierarchical Graph-Based Segmentation Relying on the Felzenszwalbâ€“Huttenlocher Dissimilarity. International Journal of Pattern Recognition and Artificial Intelligence, 2019, 33, 1940008.	0.7	3
26	Label Propagation Guided by Hierarchy of Partitions for Superpixel Computation. Lecture Notes in Computer Science, 2019, , 3-13.	1.0	1
27	BRIEF-Based Mid-Level Representations for Time Series Classification. Lecture Notes in Computer Science, 2019, , 449-457.	1.0	0
28	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
29	Erratum to â€œHierarchizing graph-based image segmentation algorithms relying on region dissimilarity: the case of the Felzenszwalb-Huttenlocher methodâ€. Mathematical Morphology - Theory and Applications, 2019, 3, 71.	0.6	2
30	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
31	Evaluation of Hierarchical Watersheds. IEEE Transactions on Image Processing, 2018, 27, 1676-1688.	6.0	27
32	Evaluation of morphological hierarchies for supervised video segmentation. , 2018, , .		1
33	Combining pixel domain and compressed domain index for sketch based image retrieval. Multimedia Tools and Applications, 2017, 76, 22019-22042.	2.6	2
34	Exploring quantization error to improve human action classification. , 2017, , .		3
35	Using Graph Homomorphisms for Vertex Classification Analysis in Social Networks. , 2017, , .		0
36	Hierarchizing graph-based image segmentation algorithms relying on region dissimilarity. Mathematical Morphology - Theory and Applications, 2017, 2, .	0.6	7

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37	Towards large scale multimedia indexing. , 2017, , .		6
38	Tag Propagation Approaches within Speaking Face Graphs for Multimodal Person Discovery. , 2017, , .		1
39	A New Pooling Strategy Based on Local Feature Distribution: A Case Study for Human Action Classification. , 2017, , .		0
40	Human Action Classification Using an Extended BoW Formalism. Lecture Notes in Computer Science, 2017, , 185-196.	1.0	1
41	Gameplay Genre Video Classification by Using Mid-Level Video Representation. , 2016, , .		0
42	Decreasing the Number of Features for Improving Human Action Classification. , 2016, , .		1
43	Stochastic Hierarchical Watershed Cut Based on Disturbed Topographical Surface. , 2016, , .		0
44	A mid-level video representation based on binary descriptors: A case study for pornography detection. Neurocomputing, 2016, 213, 102-114.	3.5	42
45	Near-duplicate video detection based on an approximate similarity self-join strategy. , 2016, , .		1
46	Video similarity search by using compact representations. , 2016, , .		2
47	Summarizing video sequence using a graph-based hierarchical approach. Neurocomputing, 2016, 173, 1001-1016.	3.5	30
48	Evaluation of Morphological Hierarchies for Supervised Segmentation. Lecture Notes in Computer Science, 2015, , 39-50.	1.0	15
49	Streaming Graph-Based Hierarchical Video Segmentation by a Simple Label Propagation. , 2015, , .		2
50	Efficient Unsupervised Band Selection Through Spectral Rhythms. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 1016-1025.	7.3	17
51	An efficient access method for multimodal video retrieval. Multimedia Tools and Applications, 2015, 74, 1357-1375.	2.6	1
52	Hierarchical Image Segmentation Relying on a Likelihood Ratio Test. Lecture Notes in Computer Science, 2015, , 25-35.	1.0	3
53	Re-ranking of the Merging Order for Hierarchical Image Segmentation. Lecture Notes in Computer Science, 2015, , 375-382.	1.0	0
54	Kernel Combination Through Genetic Programming for Image Classification. Lecture Notes in Computer Science, 2015, , 314-321.	1.0	0

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55	Graph-Based Hierarchical Video Summarization Using Global Descriptors. , 2014, , .		4
56	Phenological Event Detection by Visual Rhythms Dissimilarity Analysis. , 2014, , .		1
57	Representing local binary descriptors with BossaNova for visual recognition. , 2014, , .		10
58	Unsupervised Hyperspectral Band Selection Based on Spectral Rhythm Analysis. , 2014, , .		5
59	Graph-based hierarchical video segmentation based on a simple dissimilarity measure. Pattern Recognition Letters, 2014, 47, 85-92.	2.6	20
60	Hierarchical Video Segmentation Using an Observation Scale. , 2013, , .		5
61	Searching for Near-Duplicate Video Sequences from a Scalable Sequence Aligner. , 2013, , .		0
62	An efficient access method for multimodal video retrieval. , 2013, , .		0
63	A two-step video subsequence identification based on bipartite graph matching. , 2012, , .		1
64	A Hierarchical Image Segmentation Algorithm Based on an Observation Scale. Lecture Notes in Computer Science, 2012, , 116-125.	1.0	29
65	Video text extraction based on image regularization and temporal analysis. , 2011, , .		2
66	A Simple Hierarchical Clustering Method for Improving Flame Pixel Classification. , 2011, , .		3
67	Identification of video subsequence using bipartite graph matching. Journal of the Brazilian Computer Society, 2011, 17, 175-192.	0.8	1
68	A Static Video Summarization Method Based on Hierarchical Clustering. Lecture Notes in Computer Science, 2010, , 46-54.	1.0	7
69	An Unified Transition Detection Based on Bipartite Graph Matching Approach. Lecture Notes in Computer Science, 2010, , 184-192.	1.0	1
70	Gradual transition detection based on bipartite graph matching approach. , 2009, , .		4
71	A NEW DISSIMILARITY MEASURE FOR CUT DETECTION USING BIPARTITE GRAPH MATCHING. International Journal of Semantic Computing, 2009, 03, 155-181.	0.4	9
72	A Rotation and Translation Invariant Algorithm for Cut Detection Using Bipartite Graph Matching. , 2008, , .		1

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73	An approach for video cut detection using bipartite graph matching as dissimilarity distance. , 2008, , .		0
74	Bipartite graph matching for video clip localization. , 2007, , .		1
75	Counting of Video Clip Repetitions using a Modified BMH Algorithm: Preliminary Results. , 2006, , .		1
76	A Collaborative Learning Approach And its Evaluation. , 2006, , 333-337.		3
77	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
78	Video segmentation based on 2D image analysis. Pattern Recognition Letters, 2003, 24, 947-957.	2.6	57
79	<title>New approach for old movie restoration</title>. , 2001, 4308, 67.		2
80	<title>Nonlinear features extraction applied to pollen grain images</title>. , 2001, , .		0
81	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
82	Old movie restoration using opening by surface. , 0, , .		1
83	Image decomposition in morphological residues: an approach for image filtering and segmentation. , 0, , .		1
84	A method for cut detection based on visual rhythm. , 0, , .		8
85	A directional and parametrized transition detection algorithm based on morphological residues. , 0, , .		3