Longin Jan Latecki

List of Publications by Year
in descending order

78 papers	**3,614** citations	159585 **30** h-index	189892 **50** g-index
80 all docs	**80** docs citations	**80** times ranked	**2480** citing authors

#	Article	IF	Citations
1	Skeleton Pruning by Contour Partitioning with Discrete Curve Evolution. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 449-462.	13.9	357
2	Convexity Rule for Shape Decomposition Based on Discrete Contour Evolution. Computer Vision and Image Understanding, 1999, 73, 441-454.	4.7	311
3	Path Similarity Skeleton Graph Matching. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 1282-1292.	13.9	277
4	Shape matching and classification using height functions. Pattern Recognition Letters, 2012, 33, 134-143.	4.2	191
5	Bag of contour fragments for robust shape classification. Pattern Recognition, 2014, 47, 2116-2125.	8.1	140
6	DeepMitosis: Mitosis detection via deep detection, verification and segmentation networks. Medical Image Analysis, 2018, 45, 121-133.	11.6	123
7	Locally constrained diffusion process on locally densified distance spaces with applications to shape retrieval. , 2009, , .		114
8	Weakly supervised mitosis detection in breast histopathology images using concentric loss. Medical Image Analysis, 2019, 53, 165-178.	11.6	106
9	Multi-scale deep context convolutional neural networks for semantic segmentation. World Wide Web, 2019, 22, 555-570.	4.0	100
10	Application of planar shape comparison to object retrieval in image databases. Pattern Recognition, 2002, 35, 15-29.	8.1	93
11	Skeleton growing and pruning with bending potential ratio. Pattern Recognition, 2011, 44, 196-209.	8.1	82
12	Similarity Fusion for Visual Tracking. International Journal of Computer Vision, 2016, 118, 337-363.	15.6	74
13	AGLNet: Towards real-time semantic segmentation of self-driving images via attention-guided lightweight network. Applied Soft Computing Journal, 2020, 96, 106682.	7.2	73
14	Detection and recognition of contour parts based on shape similarity. Pattern Recognition, 2008, 41, 2189-2199.	8.1	72
15	3D Well-Composed Pictures. Graphical Models, 1997, 59, 164-172.	1.3	67
16	GIFT: Towards Scalable 3D Shape Retrieval. IEEE Transactions on Multimedia, 2017, 19, 1257-1271.	7.2	66
17	Preserving Topology by a Digitization Process. Journal of Mathematical Imaging and Vision, 1998, 8, 131-159.	1.3	63
18	An elastic partial shape matching technique. Pattern Recognition, 2007, 40, 3069-3080.	8.1	60

#	Article	IF	Citations
19	Feature context for image classification and object detection. , 2011, , .		57
20	From partial shape matching through local deformation to robust global shape similarity for object detection. , 2011, , .		56
21	Affinity learning on a tensor product graph with applications to shape and image retrieval. , 2011, , .		54
22	Multi-scale context for scene labeling via flexible segmentation graph. Pattern Recognition, 2016, 59, 312-324.	8.1	53
23	Topological Equivalence between a 3D Object and the Reconstruction of Its Digital Image. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 126-140.	13.9	52
24	A Unified Curvature Definition for Regular, Polygonal, and Digital Planar Curves. International Journal of Computer Vision, 2008, 80, 104-124.	15.6	52
25	Regularized Diffusion Process on Bidirectional Context for Object Retrieval. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1213-1226.	13.9	51
26	Optimal partial shape similarity. Image and Vision Computing, 2005, 23, 227-236.	4.5	50
27	Improving SVM classification on imbalanced time series data sets with ghost points. Knowledge and Information Systems, 2011, 28, 1-23.	3.2	48
28	Contour-based object detection as dominant set computation. Pattern Recognition, 2012, 45, 1927-1936.	8.1	44
29	Topologies for the digital spaces and. Computer Vision and Image Understanding, 2003, 90, 295-312.	4.7	42
30	Leveraging Line-point Consistence to Preserve Structures for Wide Parallax Image Stitching. , 2021, , .		39
31	Fast Detection of Dense Subgraphs with Iterative Shrinking and Expansion. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 2131-2142.	13.9	37
32	Topological Repairing of 3D Digital Images. Journal of Mathematical Imaging and Vision, 2008, 30, 249-274.	1.3	35
33	Improving SVM Classification on Imbalanced Data Sets in Distance Spaces. , 2009, , .		32
34	Dense Neighborhoods on Affinity Graph. International Journal of Computer Vision, 2012, 98, 65-82.	15.6	32
35	No-reference mesh visual quality assessment via ensemble of convolutional neural networks and compact multi-linear pooling. Pattern Recognition, 2020, 100, 107174.	8.1	32
36	Optimal Subsequence Bijection. , 2007, , .		30

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37	Particle filter with state permutations for solving image jigsaw puzzles. , 2011, 2011, 2873-2880.		30
38	Skeleton pruning as trade-off between skeleton simplicity and reconstruction error. Science China Information Sciences, 2013, 56, 1-14.	4.3	30
39	Shape clustering: Common structure discovery. Pattern Recognition, 2013, 46, 539-550.	8.1	28
40	An open-source project for real-time image semantic segmentation. Science China Information Sciences, 2019, 62, 1.	4.3	27
41	Shape band: A deformable object detection approach. , 2009, , .		22
42	Contour based object detection using part bundles. Computer Vision and Image Understanding, 2010, 114, 827-834.	4.7	21
43	Supportedness and tameness differentialless geometry of plane curves. Pattern Recognition, 1998, 31, 607-622.	8.1	18
44	Partial Elastic Matching of Time Series. , 0, , .		18
45	Shape guided contour grouping with particle filters. , 2009, 2009, 2288-2295.		18
46	ONLINE MULTIPLE TARGETS DETECTION AND TRACKING FROM MOBILE ROBOT IN CLUTTERED INDOOR ENVIRONMENTS WITH DEPTH CAMERA. International Journal of Pattern Recognition and Artificial Intelligence, 2014, 28, 1455001.	1.2	17
47	Unsupervised object region proposals for RGB-D indoor scenes. Computer Vision and Image Understanding, 2017, 154, 127-136.	4.7	15
48	Entropy Minimization Versus Diversity Maximization for Domain Adaptation. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 2896-2907.	11.3	15
49	Convolutional Neural Network for Blind Mesh Visual Quality Assessment Using 3D Visual Saliency. , 2018, , .		14
50	3D visual saliency and convolutional neural network for blind mesh quality assessment. Neural Computing and Applications, 2020, 32, 16589-16603.	5.6	13
51	Fan Shape Model for object detection. , 2012, , .		11
52	Contour-Based Shape Similarity. Lecture Notes in Computer Science, 1999, , 617-625.	1.3	10
53	Densifying Distance Spaces for Shape and Image Retrieval. Journal of Mathematical Imaging and Vision, 2013, 46, 12-28.	1.3	10
54	Well-composed sets. Advances in Imaging and Electron Physics, 2000, 112, 95-163.	0.2	9

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55	Multi robot mapping using force field simulation. Journal of Field Robotics, 2007, 24, 747-762.	6.0	8
56	Face recognition via fast dense correspondence. Multimedia Tools and Applications, 2018, 77, 10501-10519.	3.9	8
57	Learning adaptive contrast combinations for visual saliency detection. Multimedia Tools and Applications, 2020, 79, 14419-14447.	3.9	8
58	Tracking motion objects in infrared videos. , 0, , .		7
59	Extended EM for planar approximation of 3D data. , 0, , .		6
60	Scene Parsing Via Dense Recurrent Neural Networks With Attentional Selection. , 2019, , .		6
61	Piecewise Linear Models with Guaranteed Closeness to the Data. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 1525-1531.	13.9	5
62	Dense Deconvolutional Network for Semantic Segmentation. , 2018, , .		5
63	Learning Graph Convolutional Network for Blind Mesh Visual Quality Assessment. IEEE Access, 2021, 9, 108200-108211.	4.2	5
64	Efficient Rank-Based Diffusion Process with Assured Convergence. Journal of Imaging, 2021, 7, 49.	3.0	5
65	Analysis of Facial Images across Age Progression by Humans. , 2012, 2012, 1-7.		5
66	3D object retrieval by 3D curve matching. , 2014, , .		4
67	Salient object detection via background contrast. , 2015, , .		3
68	Reliability of motion features in surveillance videos. Integrated Computer-Aided Engineering, 2005, 12, 279-290.	4.6	2
69	Affinity Inference with Application to Recommender Systems. , 2015, , .		2
70	Towards a Generalization of Self-localization. Springer Tracts in Advanced Robotics, 2007, , 105-134.	0.4	2
71	Combination Of Handcrafted And Deep Learning-Based Features For 3d Mesh Quality Assessment. , 2020, , .		1
72	DCM: A Dense-Attention Context Module For Semantic Segmentation. , 2020, , .		1

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73	Locally constrained diffusion process on locally densified distance spaces with applications to shape retrieval. , 2009, , .		1
74	Data Visualization by Pairwise Distortion Minimization. Communications in Statistics - Theory and Methods, 2005, 34, 1379-1391.	1.0	0
75	Robust object tracking based on RGB-D camera. , 2014, , .		0
76	Enhanced Affinity Inference Based Recommender Systems. , 2016, , .		0
77	Mesh Visual Quality based on the combination of convolutional neural networks. , 2019, , .		0
78	Shape band: A deformable object detection approach. , 2009, , .		0