

Xianghua Xie

List of Publications by Year in descending order

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Version: 2024-02-01

106
papers

1,689
citations

361413

20
h-index

330143

37
g-index

111
all docs

111
docs citations

111
times ranked

1607
citing authors

#	ARTICLE	IF	CITATIONS
1	Computer Vision Techniques for Transcatheter Intervention. IEEE Journal of Translational Engineering in Health and Medicine, 2015, 3, 1-31.	3.7	150
2	MAC: Magnetostatic Active Contour Model. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 632-646.	13.9	148
3	TEXEMS: Texture Exemplars for Defect Detection on Random Textured Surfaces. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1454-1464.	13.9	125
4	RAGS: Region-Aided Geometric Snake. IEEE Transactions on Image Processing, 2004, 13, 640-652.	9.8	84
5	Active Contouring Based on Gradient Vector Interaction and Constrained Level Set Diffusion. IEEE Transactions on Image Processing, 2010, 19, 154-164.	9.8	77
6	TimeCluster: dimension reduction applied to temporal data for visual analytics. Visual Computer, 2019, 35, 1013-1026.	3.5	72
7	An Ensemble of Deep Learning-Based Multi-Model for ECG Heartbeats Arrhythmia Classification. IEEE Access, 2021, 9, 103452-103464.	4.2	59
8	Estimating the accuracy of a reduced-order model for the calculation of fractional flow reserve (FFR). International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2908.	2.1	54
9	Correction to "MAC: Magnetostatic Active Contour Model" [Apr 08 632-646]. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, Online Only-Online Only.	13.9	46
10	State of the Art Report on Video-Based Graphics and Video Visualization. Computer Graphics Forum, 2012, 31, 2450-2477.	3.0	45
11	A Galaxy of Texture Features. , 2008, , 375-406.		42
12	Clustering and Classification for Time Series Data in Visual Analytics: A Survey. IEEE Access, 2019, 7, 181314-181338.	4.2	42
13	Graph Deep Learning: State of the Art and Challenges. IEEE Access, 2021, 9, 22106-22140.	4.2	36
14	Deep Time-Series Clustering: A Review. Electronics (Switzerland), 2021, 10, 3001.	3.1	36
15	Modelling pipeline for subject-specific arterial blood flow—A review. International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 1868-1910.	2.1	34
16	Harnessing the Power of Machine Learning in Dementia Informatics Research: Issues, Opportunities, and Challenges. IEEE Reviews in Biomedical Engineering, 2020, 13, 113-129.	18.0	33
17	Radial basis function based level set interpolation and evolution for deformable modelling. Image and Vision Computing, 2011, 29, 167-177.	4.5	29
18	Geometrically Induced Force Interaction for Three-Dimensional Deformable Models. IEEE Transactions on Image Processing, 2011, 20, 1373-1387.	9.8	27

#	ARTICLE	IF	CITATIONS
19	3D mesh segmentation via multi-branch 1D convolutional neural networks. <i>Graphical Models</i> , 2018, 96, 1-10.	2.4	26
20	Segmentation of biomedical images using active contour model with robust image feature and shape prior. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2014, 30, 232-248.	2.1	23
21	Texture Exemplars for Defect Detection on Random Textures. <i>Lecture Notes in Computer Science</i> , 2005, , 404-413.	1.3	22
22	From pose to activity: Surveying datasets and introducing CONVERSE. <i>Computer Vision and Image Understanding</i> , 2016, 144, 73-105.	4.7	21
23	Inferring Attention Shift Ranks of Objects for Image Saliency. , 2020, , .		21
24	Automatic Bootstrapping and Tracking of Object Contours. <i>IEEE Transactions on Image Processing</i> , 2012, 21, 1231-1245.	9.8	19
25	Combining region-based and imprecise boundary-based cues for interactive medical image segmentation. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2014, 30, 1649-1666.	2.1	19
26	GRNN: Generative Regression Neural Network—A Data Leakage Attack for Federated Learning. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2022, 13, 1-24.	4.5	18
27	Tracking 3D human pose with large root node uncertainty. , 2011, , .		17
28	Joint multi-label learning and feature extraction for temporal link prediction. <i>Pattern Recognition</i> , 2022, 121, 108216.	8.1	17
29	Literature Review of Deep Network Compression. <i>Informatics</i> , 2021, 8, 77.	3.9	17
30	Integrated Segmentation and Interpolation of Sparse Data. <i>IEEE Transactions on Image Processing</i> , 2014, 23, 110-125.	9.8	16
31	Modeling Large Sparse Data for Feature Selection: Hospital Admission Predictions of the Dementia Patients Using Primary Care Electronic Health Records. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2021, 9, 1-13.	3.7	16
32	Pruning CNN filters via quantifying the importance of deep visual representations. <i>Computer Vision and Image Understanding</i> , 2021, 208-209, 103220.	4.7	15
33	Automatic segmentation of cross-sectional coronary arterial images. <i>Computer Vision and Image Understanding</i> , 2017, 165, 97-110.	4.7	13
34	Shape and appearance priors for level set-based left ventricle segmentation. <i>IET Computer Vision</i> , 2013, 7, 170-183.	2.0	12
35	Phase contrast cell detection using multilevel classification. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018, 34, e2916.	2.1	12
36	A Charged Active Contour Based on Electrostatics. <i>Lecture Notes in Computer Science</i> , 2006, , 173-184.	1.3	12

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37	Shape Prior Model for Media-Adventitia Border Segmentation in IVUS Using Graph Cut. Lecture Notes in Computer Science, 2013, , 114-123.	1.3	12
38	Age-Related Macular Degeneration Detection and Stage Classification Using Choroidal OCT Images. Lecture Notes in Computer Science, 2016, , 707-715.	1.3	11
39	A directed graph convolutional neural network for edge-structured signals in link-fault detection. Pattern Recognition Letters, 2022, 153, 100-106.	4.2	11
40	A bag of words approach to subject specific 3D human pose interaction classification with random decision forests. Graphical Models, 2014, 76, 162-171.	2.4	10
41	Minimum S-Excess Graph for Segmenting and Tracking Multiple Borders with HMM. Lecture Notes in Computer Science, 2015, , 28-35.	1.3	10
42	Colour tonality inspection using eigenspace features. Machine Vision and Applications, 2006, 16, 364-373.	2.7	9
43	Geometric Potential Force for the Deformable Model. , 2009, , .		9
44	Energy minimization in medical image analysis: Methodologies and applications. International Journal for Numerical Methods in Biomedical Engineering, 2016, 32, e02733.	2.1	8
45	Recurrent Neural Networks for Financial Time-Series Modelling. , 2018, , .		8
46	Automatic vessel lumen segmentation in optical coherence tomography (OCT) images. Applied Soft Computing Journal, 2020, 88, 106042.	7.2	8
47	Modelling and upscaling ecosystem respiration using thermal cameras and UAVs: Application to a peatland during and after a hot drought. Agricultural and Forest Meteorology, 2021, 300, 108330.	4.8	8
48	Automatic IVUS media-adventitia border extraction using double interface graph cut segmentation. , 2011, , .		7
49	Footstep pressure signal analysis for human identification. , 2014, , .		7
50	Divergence of Gradient Convolution: Deformable Segmentation With Arbitrary Initializations. IEEE Transactions on Image Processing, 2015, 24, 3902-3914.	9.8	6
51	Interactive Segmentation of Media-Adventitia Border in IVUS. Lecture Notes in Computer Science, 2013, , 466-474.	1.3	6
52	Initialisation-Free Active Contour Segmentation. , 2010, , .		5
53	Recognition, Tracking, and Optimisation. International Journal of Computer Vision, 2017, 122, 409-410.	15.6	5
54	Nested Shallow CNN-Cascade for Face Detection in the Wild. , 2017, , .		5

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55	A multi-stage random forest classifier for phase contrast cell segmentation. , 2015, 2015, 3865-8.		4
56	TLGP: a flexible transfer learning algorithm for gene prioritization based on heterogeneous source domain. BMC Bioinformatics, 2021, 22, 274.	2.6	4
57	Estimating 3D Pose via Stochastic Search and Expectation Maximization. Lecture Notes in Computer Science, 2010, , 67-77.	1.3	4
58	Localising surface defects in random colour textures using multiscale texem analysis in image eigenchannels. , 2005, , .		3
59	Textured Image Segmentation Using Active Contours. Communications in Computer and Information Science, 2010, , 357-369.	0.5	3
60	From clamped local shape models to global shape model. , 2013, , .		3
61	Protein classification using Hidden Markov models and randomised decision trees. , 2014, , .		3
62	Registration and Modeling From Spaced and Misaligned Image Volumes. IEEE Transactions on Image Processing, 2016, 25, 4379-4393.	9.8	3
63	Learning feature extractors for AMD classification in OCT using convolutional neural networks. , 2017, , .		3
64	Towards Visual Exploration of Large Temporal Datasets. , 2018, , .		3
65	Graph convolutional neural network for multi-scale feature learning. Computer Vision and Image Understanding, 2020, 194, 102881.	4.7	3
66	On-line Learning of Shape Information for Object Segmentation and Tracking. , 2009, , .		3
67	Automatic Aortic Root Segmentation with Shape Constraints and Mesh Regularisation. , 2015, , .		3
68	3D Interactive Segmentation With Semi-Implicit Representation and Active Learning. IEEE Transactions on Image Processing, 2021, 30, 9402-9417.	9.8	3
69	A Deep Learning Driven Active Framework for Segmentation of Large 3D Shape Collections. CAD Computer Aided Design, 2022, 144, 103179.	2.7	3
70	TEXEMS: Random Texture Representation and Analysis. , 2008, , 95-127.		2
71	Estimating 3D Human Pose from Single Images Using Iterative Refinement of the Prior. , 2010, , .		2
72	Level Set Based Segmentation Using Local Feature Distribution. , 2010, , .		2

#	ARTICLE	IF	CITATIONS
73	Graph based segmentation with minimal user interaction. , 2013, , .		2
74	3D interactive coronary artery segmentation using random forests and Markov random field optimization. , 2014, , .		2
75	Fixing the root node: Efficient tracking and detection of 3D human pose through local solutions. Image and Vision Computing, 2016, 52, 73-87.	4.5	2
76	Active Region Detection in Multi-spectral Solar Images. , 2021, , .		2
77	Graph Based Lymphatic Vessel Wall Localisation and Tracking. Lecture Notes in Computer Science, 2015, , 345-354.	1.3	2
78	Fast Dynamic Texture Detection. Lecture Notes in Computer Science, 2010, , 680-693.	1.3	2
79	Range image registration using hierarchical segmentation and clustering. , 2009, , .		1
80	Image Gradient Based Level Set Methods in 2D and 3D. Lecture Notes in Computational Vision and Biomechanics, 2013, , 101-120.	0.5	1
81	Automatic segmentation of lymph vessel wall using optimal surface graph cut and hidden Markov Models. , 2015, 2015, 2403-6.		1
82	An improved method of computing geometrical potential force (GPF) employed in the segmentation of 3D and 4D medical images. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2017, 5, 287-296.	1.9	1
83	AMD Classification in Choroidal OCT Using Hierarchical Texton Mining. Lecture Notes in Computer Science, 2017, , 237-248.	1.3	1
84	Detect face in the wild using CNN cascade with feature aggregation at multi-resolution. , 2017, , .		1
85	Coupled sâ€xcess HMM for vessel border tracking and segmentation. International Journal for Numerical Methods in Biomedical Engineering, 2019, 35, e3206.	2.1	1
86	Deep Collaborative Learning for Randomly Wired Neural Networks. Electronics (Switzerland), 2021, 10, 1669.	3.1	1
87	Entropy Driven Hierarchical Search for 3D Human Pose Estimation. , 2011, , .		1
88	Recognizing Conversational Interaction Based on 3D Human Pose. Lecture Notes in Computer Science, 2013, , 138-149.	1.3	1
89	Conversational Interaction Recognition Based on Bodily and Facial Movement. Lecture Notes in Computer Science, 2014, , 237-245.	1.3	1
90	MLMT-CNN for object detection and segmentation in multi-layer and multi-spectral images. Machine Vision and Applications, 2022, 33, 1.	2.7	1

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91	MSMT-CNN for Solar Active Region Detection with Multi-Spectral Analysis. SN Computer Science, 2022, 3, 1.	3.6	1
92	Extracting 3D Structures from Biomedical Data. , 2011, , .		0
93	An applied study of human detection in single images. , 2012, , .		0
94	An adaptive denoising method used in MRI. , 2014, , .		0
95	Finding complete 3D vertex correspondence for statistical shape modeling. , 2015, 2015, 2912-5.		0
96	Labeling subtle conversational interactions within the CONVERSE dataset. , 2017, , .		0
97	Consistent segment-wise matching with multi-layer graphs. Computer Aided Geometric Design, 2019, 70, 31-45.	1.2	0
98	Graph Convolution Networks for Cell Segmentation. , 2021, , .		0
99	Segmenting Carotid in CT Using Geometric Potential Field Deformable Model. Springer Proceedings in Mathematics and Statistics, 2013, , 149-162.	0.2	0
100	Efficient Geometrical Potential Force Computation for Deformable Model Segmentation. Lecture Notes in Computer Science, 2013, , 104-113.	1.3	0
101	Generating Local Temporal Poses from Gestures with Aligned Cluster Analysis for Human Action Recognition. , 2015, , .		0
102	Analysis of face and segment level descriptors for robust 3D co-segmentation. , 2015, , .		0
103	Interactive 3D Segmentation of Lymphatic Valves in Confocal Microscopic Images. Lecture Notes in Computer Science, 2016, , 198-205.	1.3	0
104	Determining Lead-Lag Structure between Sentiment Index and Stock Price Returns. , 2019, , .		0
105	A hybrid method of detecting flame from video stream. IET Image Processing, 0, , .	2.5	0
106	Fully Connected Networks on a Diet With the Mediterranean Matrix Multiplication. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 634-647.	11.3	0