Xiao-Ming Liu

List of Publications by Year
in descending order

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72 papers	1,063 citations	471509 17 h-index	434195 31 g-index
72 all docs	72 docs citations	72 times ranked	777 citing authors

#	Article	IF	Citations
1	Mass Classification in Mammograms Using Selected Geometry and Texture Features, and a New SVM-Based Feature Selection Method. IEEE Systems Journal, 2014, 8, 910-920.	4.6	148
2	Weakly Supervised Segmentation of COVID19 Infection with Scribble Annotation on CT Images. Pattern Recognition, 2022, 122, 108341.	8.1	88
3	A new automatic mass detection method for breast cancer with false positive reduction. Neurocomputing, 2015, 152, 388-402.	5.9	73
4	Semi-Supervised Automatic Segmentation of Layer and Fluid Region in Retinal Optical Coherence Tomography Images Using Adversarial Learning. IEEE Access, 2019, 7, 3046-3061.	4.2	70
5	Multiobjective Evolution Strategy for Dynamic Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2020, 24, 974-988.	10.0	51
6	Multimodal MR Image Synthesis Using Gradient Prior and Adversarial Learning. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 1176-1188.	10.8	46
7	Automated Layer Segmentation of Retinal Optical Coherence Tomography Images Using a Deep Feature Enhanced Structured Random Forests Classifier. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1404-1416.	6.3	44
8	Mechanical Properties Prediction for Hot Rolled Alloy Steel Using Convolutional Neural Network. IEEE Access, 2019, 7, 47068-47078.	4.2	43
9	MDC-net: A new convolutional neural network for nucleus segmentation in histopathology images with distance maps and contour information. Computers in Biology and Medicine, 2021, 135, 104543.	7.0	43
10	Automatic fluid segmentation in retinal optical coherence tomography images using attention based deep learning. Neurocomputing, 2021, 452, 576-591.	5.9	38
11	Gender Recognition Using 3-D Human Body Shapes. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2011, 41, 898-908.	2.9	28
12	Dense-Residual Network With Adversarial Learning for Skin Lesion Segmentation. IEEE Access, 2019, 7, 77037-77051.	4.2	28
13	A robust detail preserving anisotropic diffusion for speckle reduction in ultrasound images. BMC Genomics, 2011, 12, S14.	2.8	25
14	MTANS: Multi-Scale Mean Teacher Combined Adversarial Network with Shape-Aware Embedding for Semi-Supervised Brain Lesion Segmentation. NeuroImage, 2021, 244, 118568.	4.2	24
15	A Benign and Malignant Mass Classification Algorithm Based on an Improved Level Set Segmentation and Texture Feature Analysis. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010. . .	0.0	22
16	Skin Lesion Classification Using Densely Connected Convolutional Networks with Attention Residual Learning. Sensors, 2020, 20, 7080.	3.8	20
17	A comparison of contrast measurements in passive autofocus systems for low contrast images. Multimedia Tools and Applications, 2014, 69, 139-156.	3.9	18
18	Cultural transmission based multi-objective evolution strategy for evolutionary multitasking. Information Sciences, 2022, 582, 215-242.	6.9	18

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19	Prediction of hot regions in proteinâ€“protein interaction by combining density-based incremental clustering with feature-based classification. Computers in Biology and Medicine, 2015, 61, 127-137.	7.0	16
20	Patch-based denoising method using low-rank technique and targeted database for optical coherence tomography image. Journal of Medical Imaging, 2017, 4, 014002.	1.5	14
21	A multiscale image enhancement method for calcification detection in screening mammograms. , 2009, , .		13
22	A new automatic method for mass detection in mammography with false positives reduction by supported vector machine. , 2011, , .		13
23	Mass classification of benign and malignant with a new twin support vector machine joint $${l_{2,1}}$$ l 2 , 1 -norm. International Journal of Machine Learning and Cybernetics, 2019, 10, 155-171.	3.6	12
24	A multiscale contrast enhancement algorithm for breast cancer detection using Laplacian Pyramid. , 2009, , .		11
25	Joint disease classification and lesion segmentation via one-stage attention-based convolutional neural network in OCT images. Biomedical Signal Processing and Control, 2022, 71, 103087.	5.7	11
26	DRPAN: A novel Adversarial Network Approach for Retinal Vessel Segmentation. , 2019, , .		9
27	Confidence-Guided Topology-Preserving Layer Segmentation for Optical Coherence Tomography Images With Focus-Column Module. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	9
28	Fluid region segmentation in OCT images based on convolution neural network. Proceedings of SPIE, 2017, , .	0.8	7
29	Identifying Architectural Distortion in Mammogram Images Via a SE-DenseNet Model and Twice Transfer Learning. , 2018, , .		7
30	Scribble-Supervised Meibomian Glands Segmentation in Infrared Images. ACM Transactions on Multimedia Computing, Communications and Applications, 2022, 18, 1-23.	4.3	7
31	An investigate of mass diagnosis in mammogram with random forest. , 2011, , .		6
32	Multiple TBSVM-RFE for the detection of architectural distortion in mammographic images. Multimedia Tools and Applications, 2018, 77, 15773-15802.	3.9	6
33	Generative Adversarial Networks with Dense Connection for Optical Coherence Tomography Images Denoising. , 2018, , .		6
34	Shortest path with backtracking based automatic layer segmentation in pathological retinal optical coherence tomography images. Multimedia Tools and Applications, 2019, 78, 15817-15838.	3.9	6
35	A novel membrane-inspired evolutionary framework for multi-objective multi-task optimization problems. Information Sciences, 2022, 596, 236-263.	6.9	6
36	Topological vascular tree segmentation for retinal images using shortest path connection. , 2011, , .		5

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37	A Novel Design of Software System on Chip for Embedded System. Journal of Signal Processing Systems, 2017, 86, 135-147.	2.1	5
38	Shortest Path with Backtracking Based Automatic Layer Segmentation in Pathological Retinal Optical Coherence Tomography. , 2018, , .		5
39	A Pairwise Covariance-Preserving Projection Method for Dimension Reduction. , 2007, , .		4
40	Human behavior understanding for video surveillance: Recent advance. , 2010, , .		4
41	Recognition of architectural distortion in mammographic images with transfer learning. , 2016, , .		4
42	Segmentation of Lesion in Dermoscopy Images Using Dense-Residual Network with Adversarial Learning. , 2019, , .		4
43	Detection of macular diseases in optical coherence tomography image. International Journal of Parallel, Emergent and Distributed Systems, 2020, 35, 260-272.	1.0	4
44	Uncertaintyâ€guided selfâ€ensembling model for semiâ€supervised segmentation of multiclass retinal fluid in optical coherence tomography images. International Journal of Imaging Systems and Technology, 2022, 32, 369-386.	4.1	4
45	A Multi-task Framework for Topology-guaranteed Retinal Layer Segmentation in OCT Images. , 2020, , .		4
46	A Semi-Supervised Relief Based Feature Extraction Algorithm. , 2008, , .		3
47	Improved local binary patterns for classification of masses using mammography. , 2011, , .		3
48	Design and Implementation of Portable Device Based Mobile Medical Service System. Journal of Signal Processing Systems, 2017, 86, 237-250.	2.1	3
49	Deep Learning Based Fluid Segmentation in Retinal Optical Coherence Tomography Images. Lecture Notes in Computer Science, 2019, , 337-345.	1.3	3
50	Medical Big Data Analysis with Attention and Large Margin Loss Model for Skin Lesion Application. Journal of Signal Processing Systems, 2021, 93, 827-839.	2.1	3
51	An image enhancement technique in the DCT domain for cancer detection. , 2008, , .		2
52	Vessel segmentation in retinal images with a multiple kernel learning based method. , 2014, , .		2
53	Automated segmentation of nine retinal layers with layer thickness information on SD-OCT images. Proceedings of SPIE, 2016, , .	0.8	2
54	An energy-efficient design of microkernel-based on-chip OS for NOC-based manycore system. Journal of Supercomputing, 2017, 73, 3344-3365.	3.6	2

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55	Clustering-Oriented Multiple Convolutional Neural Networks for Optical Coherence Tomography Image Denoising. , 2018, , .		2
56	One-stage attention-based network for image classification and segmentation on optical coherence tomography image. , 2021, , .		2
57	An improved WSQ fingerprint image compression algorithm. , 2008, , .		1
58	Mass Classification in Mammography with Morphological Features and Multiple Kernel Learning. , 2011, , .		1
59	Design and implementation of code security inspection system based on SVN. , 2011, , .		1
60	Uncertainty-Guided Pixel-Level Contrastive Learning for Biomarker Segmentation in OCT Images. Lecture Notes in Computer Science, 2021, , 103-111.	1.3	1
61	Uncertainty-Aware Semi-Supervised Framework for Automatic Segmentation of Macular Edema in Oct Images. , 2021, , .		1
62	Meibomian Glands Segmentation In Near-Infrared Images With Weakly Supervised Deep Learning. , 2021, , .		1
63	Multi-task based Image Aesthetics Quality Evaluation. , 2021, , .		1
64	Average neighborhood margin maximization projection with smooth regularization for face recognition. , 2008, , .		0
65	Face recognition with Locality Sensitive Discriminant Analysis based on matrix representation. , 2008, , .		0
66	Phase Field Based Texture Image Segmentation Using Shape Prior Technology. , 2009, , .		0
67	Denoising Algorithm for Jacquard Image Using Beltrami Manifold Technique. , 2009, , .		0
68	Articulated human body pose tracking by suppression based immune particle filter. , 2010, , .		0
69	Design and development of intelligent optimization System for Cold Continuous Rolling Rules. , 2010, , .		0
70	Design and implementation of content-based medical image retrieval system on mammograms. , 2011, , .		0
71	A Framework for GPS/INS based Portable Positioning System. , 2012, , .		0
72	Weakly-Supervised Automatic Biomarkers Detection And Classification Of Retinal Optical Coherence Tomography Images. , 2021, , .		0