Yonghuai Liu

List of Publications by Year
in descending order

61 papers	**1,378** citations	516681 **16** h-index	361001 **35** g-index
63 all docs	**63** docs citations	**63** times ranked	**1020** citing authors

#	Article	IF	Citations
1	Regional Attention Network (RAN) for Head Pose and Fine-Grained Gesture Recognition. IEEE Transactions on Affective Computing, 2023, 14, 549-562.	8.3	5
2	Uncertainty-guided graph attention network for parapneumonic effusion diagnosis. Medical Image Analysis, 2022, 75, 102217.	11.6	13
3	Surface-based protein domains retrieval methods from a SHREC2021 challenge. Journal of Molecular Graphics and Modelling, 2022, 111, 108103.	2.4	2
4	Unsupervised Multi-View CNN for Salient View Selection and 3D Interest Point Detection. International Journal of Computer Vision, 2022, 130, 1210-1227.	15.6	8
5	CS^2-Net: Deep learning segmentation of curvilinear structures in medical imaging. Medical Image Analysis, 2021, 67, 101874.	11.6	166
6	Mesh Saliency via Weakly Supervised Classification-for-Saliency CNN. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 151-164.	4.4	15
7	Attend and Guide (AG-Net): A Keypoints-Driven Attention-Based Deep Network for Image Recognition. IEEE Transactions on Image Processing, 2021, 30, 3691-3704.	9.8	27
8	Structure and Illumination Constrained GAN for Medical Image Enhancement. IEEE Transactions on Medical Imaging, 2021, 40, 3955-3967.	8.9	60
9	FFD: Fast Feature Detector. IEEE Transactions on Image Processing, 2021, 30, 1153-1168.	9.8	21
10	Cross-Domain Depth Estimation Network for 3D Vessel Reconstruction in OCT Angiography. Lecture Notes in Computer Science, 2021, , 13-23.	1.3	3
11	Deep Segmentation of Point Clouds of Wheat. Frontiers in Plant Science, 2021, 12, 608732.	3.6	21
12	Direct and accurate feature extraction from 3D point clouds of plants using RANSAC. Computers and Electronics in Agriculture, 2021, 187, 106240.	7.7	25
13	Quantitative potato tuber phenotyping by 3D imaging. Biosystems Engineering, 2021, 210, 48-59.	4.3	12
14	Driver Distraction Recognition-driven Collision Avoidance Algorithm for Active Vehicle Safety. , 2021, , .		1
15	Shape Analysis Approach Towards Assessment of Cleft Lip Repair Outcome. Lecture Notes in Computer Science, 2021, , 165-174.	1.3	1
16	Mesh Saliency: An Independent Perceptual Measure or A Derivative of Image Saliency?. , 2021, , .		7
17	Distinction of 3D Objects and Scenes via Classification Network and Markov Random Field. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 2204-2218.	4.4	3
18	Retinal Vascular Network Topology Reconstruction and Artery/Vein Classification via Dominant Set Clustering. IEEE Transactions on Medical Imaging, 2020, 39, 341-356.	8.9	46

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19	Histogram of Fuzzy Local Spatio-Temporal Descriptors for Video Action Recognition. IEEE Transactions on Industrial Informatics, 2020, 16, 4059-4067.	11.3	14
20	Automatic Extraction of Material Defect Size by Infrared Image Sequence. Applied Sciences (Switzerland), 2020, 10, 8248.	2.5	6
21	Temporal convolutional neural (TCN) network for an effective weather forecasting using time-series data from the local weather station. Soft Computing, 2020, 24, 16453-16482.	3.6	191
22	Automated Tortuosity Analysis of Nerve Fibers in Corneal Confocal Microscopy. IEEE Transactions on Medical Imaging, 2020, 39, 2725-2737.	8.9	29
23	Orderly Disorder in Point Cloud Domain. Lecture Notes in Computer Science, 2020, , 494-509.	1.3	4
24	Cycle Structure and Illumination Constrained GAN for Medical Image Enhancement. Lecture Notes in Computer Science, 2020, , 667-677.	1.3	11
25	Classification of Retinal Vessels into Artery-Vein in OCT Angiography Guided by Fundus Images. Lecture Notes in Computer Science, 2020, , 117-127.	1.3	6
26	Unsupervised Multi-view CNN for Salient View Selection of 3D Objects and Scenes. Lecture Notes in Computer Science, 2020, , 454-470.	1.3	1
27	Corrections to â€œAutomated Tortuosity Analysis of Nerve Fibers in Corneal Confocal Microscopyâ€. IEEE Transactions on Medical Imaging, 2020, 39, 3758-3758.	8.9	1
28	Human consistency evaluation of static video summaries. Multimedia Tools and Applications, 2019, 78, 12281-12306.	3.9	2
29	Automated retinal lesion detection via image saliency analysis. Medical Physics, 2019, 46, 4531-4544.	3.0	10
30	Remote sensing image fusion via compressive sensing. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 152, 34-48.	11.1	44
31	Topology Reconstruction of Tree-Like Structure in Images via Structural Similarity Measure and Dominant Set Clustering. , 2019, , .		10
32	Automatic 2-D/3-D Vessel Enhancement in Multiple Modality Images Using a Weighted Symmetry Filter. IEEE Transactions on Medical Imaging, 2018, 37, 438-450.	8.9	91
33	Local-to-global mesh saliency. Visual Computer, 2018, 34, 323-336.	3.5	17
34	Point cloud based iterative segmentation technique for 3D plant phenotyping. , 2018, , .		4
35	Retinal Artery and Vein Classification via Dominant Sets Clustering-Based Vascular Topology Estimation. Lecture Notes in Computer Science, 2018, , 56-64.	1.3	31
36	Geometry-Based Pectoral Muscle Segmentation From MLO Mammogram Views. IEEE Transactions on Biomedical Engineering, 2017, 64, 2662-2671.	4.2	33

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37	Saliency driven vasculature segmentation with infinite perimeter active contour model. Neurocomputing, 2017, 259, 201-209.	5.9	53
38	Intensity and Compactness Enabled Saliency Estimation for Leakage Detection in Diabetic and Malarial Retinopathy. IEEE Transactions on Medical Imaging, 2017, 36, 51-63.	8.9	67
39	Accurate Camera Calibration Using Iteratively Optimized Algorithm of Control Points. , 2017, , .		1
40	Region-based saliency estimation for 3D shape analysis and understanding. Neurocomputing, 2016, 197, 1-13.	5.9	16
41	Point match refinement through rigidity constraint and vote. Electronics Letters, 2016, 52, 1304-1306.	1.0	0
42	A pertinent evaluation of automatic video summary. , 2016, , .		4
43	Estimation of Branch Angle from 3D Point Cloud of Plants. , 2015, , .		7
44	A method for text line detection in natural images. Multimedia Tools and Applications, 2015, 74, 859-884.	3.9	13
45	Retinal Vessel Segmentation: An Efficient Graph Cut Approach with Retinex and Local Phase. PLoS ONE, 2015, 10, e0122332.	2.5	78
46	Mesh saliency via spectral processing. ACM Transactions on Graphics, 2014, 33, 1-17.	7.2	107
47	3D point of interest detection via spectral irregularity diffusion. Visual Computer, 2013, 29, 695-705.	3.5	14
48	Contrast-based surface saliency. , 2013, , .		0
49	Saliency-guided integration of multiple scans. , 2012, , .		3
50	Extended non-local means filter for surface saliency detection. , 2012, , .		12
51	A saliency detection based method for 3D surface simplification. , 2012, , .		12
52	Conditional random field-based mesh saliency. , 2012, , .		21
53	An Evaluation Method for Multiview Surface Reconstruction Algorithms. , 2012, , .		1
54	Guest Editorial: Scenes, Images and Objects. International Journal of Computer Vision, 2012, 100, 121-121.	15.6	0

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55	A Retinex theory based point sampling method. , 2011, , .		4
56	Penalizing Closest Point Sharing for Automatic Free Form Shape Registration. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 1058-1064.	13.9	7
57	MRF-based automatic image ordering and its application to mosaicing. , 2011, , .		0
58	Higher Order CRF for Surface Reconstruction from Multi-view Data Sets. , 2011, , .		1
59	Replicator Dynamics in the Iterative Process for Accurate Range Image Matching. International Journal of Computer Vision, 2009, 83, 30-56.	15.6	15
60	Range image registration using hierarchical segmentation and clustering. , 2009, , .		1
61	Data Integration for the Gulf of Mexico Satellite Observations. , 2009, , .		0