

Haiyong Zheng

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

1,032
citations

623188

14
h-index

500791

28
g-index

78
all docs

78
docs citations

78
times ranked

851
citing authors

#	ARTICLE	IF	CITATIONS
1	One-Shot Image-to-Image Translation via Part-Global Learning With a Multi-Adversarial Framework. IEEE Transactions on Multimedia, 2022, 24, 480-491.	5.2	6
2	Multi-Attention DenseNet: A Scattering Medium Imaging Optimization Framework for Visual Data Pre-Processing of Autonomous Driving Systems. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 25396-25407.	4.7	17
3	Detecting Marine Organisms Via Joint Attention-Relation Learning for Marine Video Surveillance. IEEE Journal of Oceanic Engineering, 2022, 47, 959-974.	2.1	3
4	Learning spectral normalized adversarial systems with stacked structure for high-quality 3D object generation. Concurrency Computation Practice and Experience, 2021, 33, e5430.	1.4	2
5	The Synthesis of Unpaired Underwater Images for Monocular Underwater Depth Prediction. Frontiers in Marine Science, 2021, 8, .	1.2	5
6	Generative Adversarial Network with Multi-branch Discriminator for imbalanced cross-species image-to-image translation. Neural Networks, 2021, 141, 355-371.	3.3	14
7	A Holistic Marine Video Dataset. , 2021, , .		2
8	Painting from Part. , 2021, , .		0
9	Multi-Modal Multi-Action Video Recognition. , 2021, , .		7
10	Depth map prediction from a single image with generative adversarial nets. Multimedia Tools and Applications, 2020, 79, 14357-14374.	2.6	8
11	Vision-Based <i>In Situ</i> Monitoring of Plankton Size Spectra Via a Convolutional Neural Network. IEEE Journal of Oceanic Engineering, 2020, 45, 511-520.	2.1	15
12	KA-Ensemble: towards imbalanced image classification ensembling under-sampling and over-sampling. Multimedia Tools and Applications, 2020, 79, 14871-14888.	2.6	10
13	Fine-grained facial image-to-image translation with an attention based pipeline generative adversarial framework. Multimedia Tools and Applications, 2020, 79, 14981-15000.	2.6	4
14	Discriminative Region Proposal Adversarial Network for High-Quality Image-to-Image Translation. International Journal of Computer Vision, 2020, 128, 2366-2385.	10.9	3
15	TumorGAN: A Multi-Modal Data Augmentation Framework for Brain Tumor Segmentation. Sensors, 2020, 20, 4203.	2.1	45
16	In Situ Holothurian Noncontact Counting System: A General Framework for Holothurian Counting. IEEE Access, 2020, 8, 210041-210053.	2.6	2
17	Underwater Image Enhancement Based on a Spiral Generative Adversarial Framework. IEEE Access, 2020, 8, 218838-218852.	2.6	17
18	Learning Attention-Enhanced Spatiotemporal Representation for Action Recognition. IEEE Access, 2020, 8, 16785-16794.	2.6	8

#	ARTICLE	IF	CITATIONS
19	Spiral Generative Network for Image Extrapolation. Lecture Notes in Computer Science, 2020, , 701-717.	1.0	16
20	CoTeRe-Net: Discovering Collaborative Ternary Relations in Videos. Lecture Notes in Computer Science, 2020, , 379-396.	1.0	4
21	Plankton Image Classification Using Deep Convolutional Neural Networks with Second-order Features. , 2020, , .		3
22	Multi-scale adversarial network for underwater image restoration. Optics and Laser Technology, 2019, 110, 105-113.	2.2	94
23	Underwater Image Enhancement With a Deep Residual Framework. IEEE Access, 2019, 7, 94614-94629.	2.6	89
24	Video-Based Real Time Analysis of Plankton Particle Size Spectrum. IEEE Access, 2019, 7, 60020-60025.	2.6	4
25	Unpaired photo-to-caricature translation on faces in the wild. Neurocomputing, 2019, 355, 71-81.	3.5	24
26	A target detectability assessment metric for the underwater electro-optic imaging system. Optics and Laser Technology, 2019, 110, 219-226.	2.2	0
27	An imaging-inspired no-reference underwater color image quality assessment metric. Computers and Electrical Engineering, 2018, 70, 904-913.	3.0	95
28	Deep Pyramidal Residual Networks for Plankton Image Classification. , 2018, , .		2
29	Improving Transfer Learning and Squeeze- and-Excitation Networks for Small-Scale Fine-Grained Fish Image Classification. IEEE Access, 2018, 6, 78503-78512.	2.6	50
30	The Synthesis of Unpaired Underwater Images Using a Multistyle Generative Adversarial Network. IEEE Access, 2018, 6, 54241-54257.	2.6	25
31	Teaching Squeeze-and-Excitation PyramidNet for Imbalanced Image Classification with GAN-based Curriculum Learning. , 2018, , .		1
32	Transfer Learning for Small-Scale Fish Image Classification. , 2018, , .		6
33	Underwater Wide-Area Layered Light Field for Underwater Detection. IEEE Access, 2018, 6, 63915-63922.	2.6	5
34	Unsupervised pixel-wise classification for Chaetoceros image segmentation. Neurocomputing, 2018, 318, 261-270.	3.5	26
35	When underwater degraded images meet logical stochastic resonance. Nonlinear Dynamics, 2018, 94, 295-305.	2.7	13
36	Instance Map Based Image Synthesis With a Denoising Generative Adversarial Network. IEEE Access, 2018, 6, 33654-33665.	2.6	7

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37	Discriminative Region Proposal Adversarial Networks for High-Quality Image-to-Image Translation. Lecture Notes in Computer Science, 2018, , 796-812.	1.0	33
38	A Hybrid Convolutional Neural Network for Plankton Classification. Lecture Notes in Computer Science, 2017, , 102-114.	1.0	17
39	Learning Non-Negativity Constrained Variation for Image Denoising and Deblurring. Numerical Mathematics, 2017, 10, 852-871.	0.6	4
40	Automatic cell object extraction of red tide algae in microscopic images. Chinese Journal of Oceanology and Limnology, 2017, 35, 275-293.	0.7	2
41	Underwater 3D reconstruction based on laser line scanning. , 2017, , .		1
42	Underwater Image Restoration via Maximum Attenuation Identification. IEEE Access, 2017, 5, 18941-18952.	2.6	56
43	A practical system of fish size measurement. , 2017, , .		4
44	CGAN-plankton: Towards large-scale imbalanced class generation and fine-grained classification. , 2017, , .		16
45	Feeble object detection of underwater images through LSR with delay loop. Optics Express, 2017, 25, 22490.	1.7	18
46	Underwater Inherent Optical Properties Estimation Using a Depth Aided Deep Neural Network. Computational Intelligence and Neuroscience, 2017, 2017, 1-8.	1.1	3
47	Robust and automatic cell detection and segmentation from microscopic images of non- <i>Chaetoceros</i> phytoplankton species. IET Image Processing, 2017, 11, 1077-1085.	1.4	13
48	Automatic plankton image classification combining multiple view features via multiple kernel learning. BMC Bioinformatics, 2017, 18, 570.	1.2	78
49	Phytoplankton feature extraction from microscopic images based on SURF-PCA. , 2016, , .		3
50	Object extraction from underwater images through logical stochastic resonance. Optics Letters, 2016, 41, 4967.	1.7	18
51	Automatic segmentation of <i>Chaetoceros</i> microscopic images via pixel-wise classification. , 2016, , .		2
52	Underwater image sharpness assessment based on selective attenuation of color in the water. , 2016, , .		5
53	Automatic object detection and segmentation from underwater images via saliency-based region merging. , 2016, , .		12
54	Multi features combination for automated zooplankton classification. , 2016, , .		1

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55	ZooplanktoNet: Deep convolutional network for zooplankton classification. , 2016, , .		40
56	Automatic searching of fish from underwater images via shape matching. , 2016, , .		4
57	Combining background subtraction and three-frame difference to detect moving object from underwater video. , 2016, , .		15
58	Detection performance analysis of recurrence quantification analysis measures for low observable target within sea clutter under different sea conditions. IET Radar, Sonar and Navigation, 2015, 9, 447-456.	0.9	8
59	Underwater image segmentation via dark channel prior and multiscale hierarchical decomposition. , 2015, , .		6
60	Global Exponential Robust Stability of High-Order Hopfield Neural Networks with S-Type Distributed Time Delays. Journal of Applied Mathematics, 2014, 2014, 1-8.	0.4	3
61	Automatic setae segmentation from Chaetoceros microscopic images. Microscopy Research and Technique, 2014, 77, 684-690.	1.2	9
62	The techniques of fixed pattern noise reduction for high speed digital CMOS image sensor. , 2013, , .		1
63	Numerical simulation of underwater inhomogeneous illumination. , 2013, , .		0
64	Underwater 3D target positioning by inhomogeneous illumination based on binocular stereo vision. , 2012, , .		7
65	Image enhancement of underwater target detection by inhomogeneous illumination. , 2012, , .		3
66	Harmful Algal Bloom recognition based on microscopic images. , 2011, , .		0
67	Underwater imaging based on inhomogeneous illumination. , 2011, , .		1
68	Management Information System for Liaohe River Estuary Wetland Based on Open Source WebGIS. , 2010, , .		0
69	An approach of image decomposition for underwater target detection by inhomogeneous illumination based on G-Space and PDE. , 2010, , .		2
70	Application of Connected Morphological Operators to Image Smoothing and Edge Detection of Algae. , 2009, , .		5
71	A New Method of Remote Control for Embedded Terminal Based on Browser/Server/Terminal Model. , 2009, , .		1
72	Design and Implementation of Control System on Embedded Downloading Server Based on C/S Architecture. , 2009, , .		1

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73	An Improved Approach for Cell Image Recognition based on Fractal Coding and Fractal Singular Value Neighbor Distance. , 2008, , .		0
74	An Improved Threshold De-Noising Algorithm Based on Multi-Wavelet for Cell Image Edge Detection. , 2008, , .		0
75	Cell Image Decomposition Based on G-Space and PDE. , 2008, , .		0
76	An improved Rival Penalized Competitive Learning algorithm based on fractal dimension of algae image. , 2008, , .		1
77	Design and Implementation of An Embedded-Linux Downloading Server and Network Proxy. , 2008, , .		7
78	Disentangling latent space better for few-shot image-to-image translation. International Journal of Machine Learning and Cybernetics, 0, , 1.	2.3	0