Huimin Lu

List of Publications by Year
in descending order

150 papers	5,959 citations	109137 35 h-index	76769 74 g-index
160 all docs	160 docs citations	160 times ranked	3543 citing authors

#	Article	IF	Citations
1	Brain Intelligence: Go beyond Artificial Intelligence. Mobile Networks and Applications, 2018, 23, 368-375.	2.2	807
2	Motor Anomaly Detection for Unmanned Aerial Vehicles Using Reinforcement Learning. IEEE Internet of Things Journal, 2018, 5, 2315-2322.	5.5	373
3	Underwater image dehazing using joint trilateral filter. Computers and Electrical Engineering, 2014, 40, 41-50.	3.0	371
4	Low illumination underwater light field images reconstruction using deep convolutional neural networks. Future Generation Computer Systems, 2018, 82, 142-148.	4.9	246
5	Deep Fuzzy Hashing Network for Efficient Image Retrieval. IEEE Transactions on Fuzzy Systems, 2021, 29, 166-176.	6.5	236
6	Wound intensity correction and segmentation with convolutional neural networks. Concurrency Computation Practice and Experience, 2017, 29, e3927.	1.4	185
7	Contrast enhancement for images in turbid water. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 886.	0.8	181
8	MADNet: A Fast and Lightweight Network for Single-Image Super Resolution. IEEE Transactions on Cybernetics, 2021, 51, 1443-1453.	6.2	175
9	Deep adversarial metric learning for cross-modal retrieval. World Wide Web, 2019, 22, 657-672.	2.7	151
10	Ternary Adversarial Networks With Self-Supervision for Zero-Shot Cross-Modal Retrieval. IEEE Transactions on Cybernetics, 2020, 50, 2400-2413.	6.2	142
11	Underwater image de-scattering and classification by deep neural network. Computers and Electrical Engineering, 2016, 54, 68-77.	3.0	141
12	PEA: Parallel electrocardiogram-based authentication for smart healthcare systems. Journal of Network and Computer Applications, 2018, 117, 10-16.	5.8	140
13	CONet: A Cognitive Ocean Network. IEEE Wireless Communications, 2019, 26, 90-96.	6.6	140
14	User-Oriented Virtual Mobile Network Resource Management for Vehicle Communications. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 3521-3532.	4.7	140
15	Underwater Optical Image Processing: a Comprehensive Review. Mobile Networks and Applications, 2017, 22, 1204-1211.	2.2	135
16	Towards Secure and Privacy-Preserving Data Sharing for COVID-19 Medical Records: A Blockchain-Empowered Approach. IEEE Transactions on Network Science and Engineering, 2022, 9, 271-281.	4.1	123
17	Multisensor Image Fusion and Enhancement in Spectral Total Variation Domain. IEEE Transactions on Multimedia, 2018, 20, 866-879.	5.2	111
18	Multi-scale deep context convolutional neural networks for semantic segmentation. World Wide Web, 2019, 22, 555-570.	2.7	100

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19	Underwater image enhancement method using weighted guided trigonometric filtering and artificial light correction. Journal of Visual Communication and Image Representation, 2016, 38, 504-516.	1.7	82
20	Cascading and Enhanced Residual Networks for Accurate Single-Image Super-Resolution. IEEE Transactions on Cybernetics, 2021, 51, 115-125.	6.2	82
21	Maximum local energy: An effective approach for multisensor image fusion in beyond wavelet transform domain. Computers and Mathematics With Applications, 2012, 64, 996-1003.	1.4	78
22	Unsupervised cross-modal retrieval through adversarial learning. , 2017, , .		71
23	Underwater Image Super-Resolution by Descattering and Fusion. IEEE Access, 2017, 5, 670-679.	2.6	68
24	SCCGAN: Style and Characters Inpainting Based on CGAN. Mobile Networks and Applications, 2021, 26, 3-12.	2.2	68
25	Single image dehazing through improved atmospheric light estimation. Multimedia Tools and Applications, 2016, 75, 17081-17096.	2.6	67
26	Underwater image enhancement using guided trigonometric bilateral filter and fast automatic color correction. , 2013, , .		66
27	A Security Awareness and Protection System for 5G Smart Healthcare Based on Zero-Trust Architecture. IEEE Internet of Things Journal, 2021, 8, 10248-10263.	5.5	57
28	Learning unified binary codes for cross-modal retrieval via latent semantic hashing. Neurocomputing, 2016, 213, 191-203.	3.5	53
29	FDCNet: filtering deep convolutional network for marine organism classification. Multimedia Tools and Applications, 2018, 77, 21847-21860.	2.6	53
30	Construction of a Hierarchical Feature Enhancement Network and Its Application in Fault Recognition. IEEE Transactions on Industrial Informatics, 2021, 17, 4827-4836.	7.2	52
31	Deep hierarchical encoding model for sentence semantic matching. Journal of Visual Communication and Image Representation, 2020, 71, 102794.	1.7	50
32	Global-PBNet: A Novel Point Cloud Registration for Autonomous Driving. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 22312-22319.	4.7	50
33	A Two-Phase Learning-Based Swarm Optimizer for Large-Scale Optimization. IEEE Transactions on Cybernetics, 2021, 51, 6284-6293.	6.2	47
34	Multi-Aspect Aware Session-Based Recommendation for Intelligent Transportation Services. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4696-4705.	4.7	45
35	WideSegNeXt: Semantic Image Segmentation Using Wide Residual Network and NeXt Dilated Unit. IEEE Sensors Journal, 2021, 21, 11427-11434.	2.4	43
36	Depth Map Reconstruction for Underwater Kinect Camera Using Inpainting and Local Image Mode Filtering. IEEE Access, 2017, 5, 7115-7122.	2.6	38

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37	Non-uniform de-Scattering and de-Blurring of Underwater Images. Mobile Networks and Applications, 2018, 23, 352-362.	2.2	38
38	Cognitive Memory-Guided AutoEncoder for Effective Intrusion Detection in Internet of Things. IEEE Transactions on Industrial Informatics, 2022, 18, 3358-3366.	7.2	37
39	Dynamics and Isotropic Control of Parallel Mechanisms for Vibration Isolation. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2027-2034.	3.7	36
40	A Model for Joint Planning of Production and Distribution of Fresh Produce in Agricultural Internet of Things. IEEE Internet of Things Journal, 2021, 8, 9683-9696.	5.5	34
41	Discrete-Time Predictive Sliding Mode Control for a Constrained Parallel Micropositioning Piezostage. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3025-3036.	5.9	34
42	Deep-Sea Organisms Tracking Using Dehazing and Deep Learning. Mobile Networks and Applications, 2020, 25, 1008-1015.	2.2	33
43	Energy Harvesting Based Body Area Networks for Smart Health. Sensors, 2017, 17, 1602.	2.1	31
44	Effect of VR technology matureness on VR sickness. Multimedia Tools and Applications, 2020, 79, 14491-14507.	2.6	31
45	Recognition of surrounding environment from electric wheelchair videos based on modified YOLOv2. Future Generation Computer Systems, 2019, 92, 157-161.	4.9	30
46	Turbidity Underwater Image Restoration Using Spectral Properties and Light Compensation. IEICE Transactions on Information and Systems, 2016, E99.D, 219-227.	0.4	28
47	Underwater image descattering and quality assessment. , 2016, , .		24
48	Learning Cross-Modal Common Representations by Private–Shared Subspaces Separation. IEEE Transactions on Cybernetics, 2022, 52, 3261-3275.	6.2	24
49	Cross-Modal Dynamic Networks for Video Moment Retrieval With Text Query. IEEE Transactions on Multimedia, 2022, 24, 1221-1232.	5.2	23
50	An LBP encoding scheme jointly using quaternionic representation and angular information. Neural Computing and Applications, 2020, 32, 4317-4323.	3.2	22
51	Zero-shot Cross-modal Retrieval by Assembling AutoEncoder and Generative Adversarial Network. ACM Transactions on Multimedia Computing, Communications and Applications, 2021, 17, 1-17.	3.0	22
52	Automatic classification of lung nodules on MDCT images with the temporal subtraction technique. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1789-1798.	1.7	21
53	Virtual Reality Sickness and Challenges Behind Different Technology and Content Settings. Mobile Networks and Applications, 2020, 25, 1436-1445.	2.2	20
54	Human Emotion Recognition Using an EEG Cloud Computing Platform. Mobile Networks and Applications, 2020, 25, 1023-1032.	2.2	19

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55	Improving multi-label chest X-ray disease diagnosis by exploiting disease and health labels dependencies. Multimedia Tools and Applications, 2020, 79, 14889-14902.	2.6	17
56	Single underwater image descattering and color correction. , 2015, , .		16
57	Synergic Adversarial Label Learning for Grading Retinal Diseases via Knowledge Distillation and Multi-Task Learning. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3709-3720.	3.9	16
58	A Hybrid Feature Selection Algorithm Based on a Discrete Artificial Bee Colony for Parkinson's Diagnosis. ACM Transactions on Internet Technology, 2021, 21, 1-22.	3.0	16
59	Automatic road detection system for an air–land amphibious car drone. Future Generation Computer Systems, 2018, 85, 51-59.	4.9	15
60	Generalized Label Enhancement with Sample Correlations. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-1.	4.0	15
61	Anxiety Level Detection Using BCI of Miner's Smart Helmet. Mobile Networks and Applications, 2018, 23, 336-343.	2.2	14
62	Real-Time Visualization System for Deep-Sea Surveying. Mathematical Problems in Engineering, 2014, 2014, 1-10.	0.6	13
63	Sentence pair modeling based on semantic feature map for human interaction with IoT devices. International Journal of Machine Learning and Cybernetics, 2021, 12, 3081-3099.	2.3	13
64	Correlated Features Synthesis and Alignment for Zero-shot Cross-modal Retrieval. , 2020, , .		13
65	Action Recognition Framework in Traffic Scene for Autonomous Driving System. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 22301-22311.	4.7	13
66	Underwater scene enhancement using weighted guided median filter. , 2014, , .		12
67	Deep Context Convolutional Neural Networks for Semantic Segmentation. Communications in Computer and Information Science, 2017, , 696-704.	0.4	12
68	Loss-Tolerant Event Communications Within Industrial Internet of Things by Leveraging on Game Theoretic Intelligence. IEEE Internet of Things Journal, 2018, 5, 1679-1689.	5.5	11
69	Wireless high-frequency NLOS monitoring system for heart disease combined with hospital and home. Future Generation Computer Systems, 2020, 110, 772-780.	4.9	11
70	Design of freely configurable safety light curtain using hemispherical mirrors. IEEJ Transactions on Electrical and Electronic Engineering, 2013, 8, S110.	0.8	10
71	Dilated-aware discriminative correlation filter for visual tracking. World Wide Web, 2019, 22, 791-805.	2.7	10
72	Face image super-resolution with pose via nuclear norm regularized structural orthogonal Procrustes regression. Neural Computing and Applications, 2020, 32, 4361-4371.	3.2	10

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73	Accurate 3-D Reconstruction Under IoT Environments and Its Applications to Augmented Reality. IEEE Transactions on Industrial Informatics, 2021, 17, 2090-2100.	7.2	10
74	Curvelet Approach for Deep-sea Sonar Image Denoising, Contrast Enhancement and Fusion. Journal of International Council on Electrical Engineering, 2013, 3, 250-256.	0.4	9
75	CAN: Contextual Aggregating Network for Semantic Segmentation. , 2019, , .		9
76	Answer Again: Improving VQA with Cascaded-Answering Model. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	4.0	9
77	Computer Vision for Ocean Observing. Studies in Computational Intelligence, 2017, , 1-16.	0.7	9
78	Learning adaptive contrast combinations for visual saliency detection. Multimedia Tools and Applications, 2020, 79, 14419-14447.	2.6	8
79	Multidimensional Deformable Object Manipulation Based on DN-Transporter Networks. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 4532-4540.	4.7	8
80	Proposal of alert system for prevention of heat stroke. , 2012, , .		7
81	Underwater Light Field Depth Map Restoration Using Deep Convolutional Neural Fields. Studies in Computational Intelligence, 2018, , 305-312.	0.7	7
82	Endmember Extraction of Hyperspectral Remote Sensing Images Based on an Improved Discrete Artificial Bee Colony Algorithm and Genetic Algorithm. Mobile Networks and Applications, 2020, 25, 1033-1041.	2.2	7
83	Guest editorial: Recent trends in multimedia data-hiding: a reliable mean for secure communications. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 1795-1797.	3.3	7
84	Large-scale optimisation via cooperatively coevolving competition swarm optimiser. Enterprise Information Systems, 2020, 14, 1439-1456.	3.3	7
85	CT temporal subtraction: techniques and clinical applications. Quantitative Imaging in Medicine and Surgery, 2021, 11, 2214-2223.	1.1	7
86	Single Underwater Image Enhancement Based on L_{P} -Norm Decomposition. IEEE Access, 2019, 7, 145199-145213.	2.6	6
87	Cognitive data science methods and models for engineering applications. Soft Computing, 2019, 23, 9045-9048.	2.1	6
88	Characteristics based visual servo for 6DOF robot arm control. Cognitive Robotics, 2021, 1, 76-82.	3.2	6
89	Multimodal Medical Image Fusion in Modified Sharp Frequency Localized Contourlet Domain. , 2012, , .		5
90	Environment Recognition for Electric Wheelchair Based on YOLOv2. , 2018, , .		5

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91	Detection of Circulating Tumor Cells in Fluorescence Microscopy Images Based on ANN Classifier. Mobile Networks and Applications, 2020, 25, 1042-1051.	2.2	5
92	Joint Semantic-Instance Segmentation Method for Intelligent Transportation System. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 15540-15547.	4.7	5
93	A Novel Underwater Scene Reconstruction Method. , 2014, , .		4
94	Super Resolving of the Depth Map for 3D Reconstruction of Underwater Terrain Using Kinect. , 2016, , .		4
95	Detection of abnormal candidate regions on temporal subtraction images based on DCNN. , 2017, , .		4
96	Extraction of GGO Candidate Regions on Thoracic CT Images using SuperVoxel-Based Graph Cuts for Healthcare Systems. Mobile Networks and Applications, 2018, 23, 1669-1679.	2.2	4
97	Data offloading in cache-enabled cross-haul networks. Computer Communications, 2019, 142-143, 1-8.	3.1	4
98	Humanized Computing for Mass Customization Application in Curriculum Management. Mobile Networks and Applications, 2020, 25, 1484-1495.	2.2	4
99	Deep-Learning Based Segmentation Algorithm for Defect Detection in Magnetic Particle Testing Images *. Proceedings of International Conference on Artificial Life and Robotics, 2021, 26, 235-238.	0.1	4
100	A novel safety light curtain system using a hemispherical mirror. , 2012, , .		3
101	Ground material distinction method using reflection intensities obtained by ultrasonic sensor. , 2012, , .		3
102	Cross Depth Image Filter-Based Natural Image Matting. , 2013, , .		3
103	Underwater image enhancement using inherent optical properties. , 2015, , .		3
104	A Novel High-Turbidity Underwater Image Quality Assessment Method. , 2016, , .		3
105	BrainNets: Human Emotion Recognition Using an Internet of Brian Things Platform. , 2018, , .		3
106	Blind Image Deblurring Based on Local Rank. Mobile Networks and Applications, 2020, 25, 1446-1456.	2.2	3
107	Guest Editorial: Special Issue on Internet of Things for Industrial Security for Smart Cities. IEEE Internet of Things Journal, 2021, 8, 6140-6142.	5.5	3
108	Robust Facial Image Super-Resolution by Kernel Locality-Constrained Coupled-Layer Regression. ACM Transactions on Internet Technology, 2021, 21, 1-15.	3.0	3

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109	Fault Location Without Wave Velocity Influence Using Wavelet and Clark Transform. Studies in Computational Intelligence, 2018, , 321-326.	0.7	3
110	Maximum Local Energy Based Multifocus Image Fusion in Mirror Extended Curvelet Transform Domain. , 2012, , .		2
111	Multiframe Medical Images Enhancement on Dual Tree Complex Wavelet Transform Domain. , 2013, , .		2
112	Rotation-Invariant Texture Retrieval Based on Complementary Features. , 2014, , .		2
113	Real-Time Underwater Image Contrast Enhancement Through Guided Filtering. Lecture Notes in Computer Science, 2015, , 137-147.	1.0	2
114	IEEE Access Special Section Editorial: Advanced Signal Processing Methods In Medical Imaging. IEEE Access, 2018, 6, 61812-61818.	2.6	2
115	Touch switch sensor for cognitive body sensor networks. Computer Communications, 2019, 146, 32-38.	3.1	2
116	High-quality-guided artificial bee colony algorithm for designing loudspeaker. Neural Computing and Applications, 2020, 32, 4473-4480.	3.2	2
117	Face Illumination Transfer and Swapping via Dense Landmark and Semantic Parsing. IEEE Sensors Journal, 2022, 22, 17391-17398.	2.4	2
118	Nuclear Norm Regularized Structural Orthogonal Procrustes Regression for Face Hallucination with Pose. Studies in Computational Intelligence, 2020, , 159-169.	0.7	2
119	A Novel Deep-Sea Image Enhancement Method. , 2014, , .		1
120	Underwater Observing System for Taiping Floodgate in Taiping River of Yangzhou. , 2016, , .		1
121	Anti-lost Luggage Reminder System Using Electrically Conductive Fiber Antenna Tag. , 2016, , .		1
122	Automatic identification of circulating tumor cells in fluorescence microscopy images based on AdaBoost. , 2017, , .		1
123	Image registration of vertebral region from CT images based on salient region feature. , 2017, , .		1
124	Editorial: Artificial Intelligence for Mobile Robotic Networks. Mobile Networks and Applications, 2018, 23, 326-327.	2.2	1
125	Automatic Detection of Cell Regions in Microscope Images Based on BFED Algorithm. , 2018, , .		1
126	Ontology negotiation: Knowledge interchange between distributed ontologies through agent negotiation. Concurrency Computation Practice and Experience, 2019, 33, e5406.	1.4	1

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127	Editorial: Cognitive Science and Artificial Intelligence for Human Cognition and Communication. Mobile Networks and Applications, 2020, 25, 995-996.	2.2	1
128	Statistical Shape Model Generation Using K-means Clustering. , 2018, , .		1
129	Underwater image super-resolution using SRCNN. , 2021, , .		1
130	Image quality improvement using local adaptive neighborhood-based dark channel prior. , 2021, , .		1
131	Image Segmentation With Language Referring Expression and Comprehension. IEEE Sensors Journal, 2022, 22, 17406-17413.	2.4	1
132	Robust color image segmentation method based on weighting Fuzzy C-Means Clustering. , 2012, , .		0
133	Proposal of a multi-frame images fusion model on dual tree complex wavelet transform domain. , 2013, , .		0
134	Image restoration method for deep-sea tripod observation systems in the South China Sea. , 2015, , .		0
135	Using near infrared light for deep sea mining observation systems. , 2015, , .		0
136	Reconstruction of spatial continuous distribution using improved Lohmann-Type CGHs. , 2016, , .		0
137	Mobile Intelligence Assisted by Data Analytics and Cognitive Computing. Wireless Communications and Mobile Computing, 2018, 2018, 1-2.	0.8	0
138	Detection of Abnormal Regions on Temporal Subtraction Images based on CNN. , 2019, , .		0
139	Research into the Adaptability Evaluation of the Remote Sensing Image Fusion Method Based on Nearest-Neighbor Diffusion Pan Sharpening. EAI/Springer Innovations in Communication and Computing, 2020, , 33-39.	0.9	0
140	Locality-constrained feature space learning for cross-resolution sketch-photo face recognition. Multimedia Tools and Applications, 2020, 79, 14903-14917.	2.6	0
141	3D-CNN with residual sub-blocks for automatic detection of lung nodules from temporal subtraction images. , 2020, , .		0
142	Deep-sea visual dataset of the South China sea. Wireless Networks, 2020, , 1.	2.0	0
143	Cognitive Computing for Intelligence Systems. Mobile Networks and Applications, 2020, 25, 1434-1435.	2.2	0
144	Special issue on cognitive computing for robotic vision. Concurrency Computation Practice and Experience, 2021, 33, e6633.	1.4	0

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145	A Diffeomorphic Demons Approach to Statistical Shape Modeling. Studies in Computational Intelligence, 2018, , 123-131.	0.7	0
146	Image Processing Based on the Optimal Threshold for Signature Verification. Studies in Computational Intelligence, 2018, , 313-319.	0.7	0
147	DeepEye: A Dedicated Camera for Deep-Sea Tripod Observation Systems. Studies in Computational Intelligence, 2020, , 507-511.	0.7	0
148	Automatic Extraction of Abnormalities on Temporal CT Subtraction Images Using Sparse Coding and 3D-CNN. Proceedings of International Conference on Artificial Life and Robotics, 2020, 25, 783-786.	0.1	0
149	Guest Editorial: Special issue on Cognitive computing for web applications. Wireless Networks, 2022, 28, 915-915.	2.0	0
150	Guest Editorial Special Section on Learning With Multimodal Data for Biomedical Informatics. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 2508-2511.	5.6	0