

Huimin Lu

List of Publications by Year in descending order

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Version: 2024-02-01

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	Multidimensional Deformable Object Manipulation Based on DN-Transporter Networks. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 4532-4540.	4.7	8
2	Joint Semantic-Instance Segmentation Method for Intelligent Transportation System. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 15540-15547.	4.7	5
3	Learning Cross-Modal Common Representations by Private Shared Subspaces Separation. IEEE Transactions on Cybernetics, 2022, 52, 3261-3275.	6.2	24
4	Face Illumination Transfer and Swapping via Dense Landmark and Semantic Parsing. IEEE Sensors Journal, 2022, 22, 17391-17398.	2.4	2
5	Cognitive Memory-Guided AutoEncoder for Effective Intrusion Detection in Internet of Things. IEEE Transactions on Industrial Informatics, 2022, 18, 3358-3366.	7.2	37
6	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
7	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
8	Generalized Label Enhancement with Sample Correlations. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-1.	4.0	15
9	Image Segmentation With Language Referring Expression and Comprehension. IEEE Sensors Journal, 2022, 22, 17406-17413.	2.4	1
10	Action Recognition Framework in Traffic Scene for Autonomous Driving System. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 22301-22311.	4.7	13
11	Cross-Modal Dynamic Networks for Video Moment Retrieval With Text Query. IEEE Transactions on Multimedia, 2022, 24, 1221-1232.	5.2	23
12	Global-PBNet: A Novel Point Cloud Registration for Autonomous Driving. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 22312-22319.	4.7	50
13	Guest Editorial: Special issue on Cognitive computing for web applications. Wireless Networks, 2022, 28, 915-915.	2.0	0
14	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
15	WideSegNeXt: Semantic Image Segmentation Using Wide Residual Network and NeXt Dilated Unit. IEEE Sensors Journal, 2021, 21, 11427-11434.	2.4	43
16	Multi-Aspect Aware Session-Based Recommendation for Intelligent Transportation Services. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4696-4705.	4.7	45
17	A Two-Phase Learning-Based Swarm Optimizer for Large-Scale Optimization. IEEE Transactions on Cybernetics, 2021, 51, 6284-6293.	6.2	47
18	Deep Fuzzy Hashing Network for Efficient Image Retrieval. IEEE Transactions on Fuzzy Systems, 2021, 29, 166-176.	6.5	236

#	ARTICLE	IF	CITATIONS
19	MADNet: A Fast and Lightweight Network for Single-Image Super Resolution. IEEE Transactions on Cybernetics, 2021, 51, 1443-1453.	6.2	175
20	User-Oriented Virtual Mobile Network Resource Management for Vehicle Communications. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 3521-3532.	4.7	140
21	Cascading and Enhanced Residual Networks for Accurate Single-Image Super-Resolution. IEEE Transactions on Cybernetics, 2021, 51, 115-125.	6.2	82
22	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
23	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
24	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
25	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
26	SCCGAN: Style and Characters Inpainting Based on CGAN. Mobile Networks and Applications, 2021, 26, 3-12.	2.2	68
27	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
28	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
29	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
30	Robust Facial Image Super-Resolution by Kernel Locality-Constrained Coupled-Layer Regression. ACM Transactions on Internet Technology, 2021, 21, 1-15.	3.0	3
31	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
32	CT temporal subtraction: techniques and clinical applications. Quantitative Imaging in Medicine and Surgery, 2021, 11, 2214-2223.	1.1	7
33	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
34	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
35	Special issue on cognitive computing for robotic vision. Concurrency Computation Practice and Experience, 2021, 33, e6633.	1.4	0
36	Characteristics based visual servo for 6DOF robot arm control. Cognitive Robotics, 2021, 1, 76-82.	3.2	6

#	ARTICLE	IF	CITATIONS
37	Underwater image super-resolution using SRCNN. , 2021, , .		1
38	Image quality improvement using local adaptive neighborhood-based dark channel prior. , 2021, , .		1
39	Human Emotion Recognition Using an EEG Cloud Computing Platform. Mobile Networks and Applications, 2020, 25, 1023-1032.	2.2	19
40	Learning adaptive contrast combinations for visual saliency detection. Multimedia Tools and Applications, 2020, 79, 14419-14447.	2.6	8
41	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
42	Deep-Sea Organisms Tracking Using Dehazing and Deep Learning. Mobile Networks and Applications, 2020, 25, 1008-1015.	2.2	33
43	Effect of VR technology matureness on VR sickness. Multimedia Tools and Applications, 2020, 79, 14491-14507.	2.6	31
44	Detection of Circulating Tumor Cells in Fluorescence Microscopy Images Based on ANN Classifier. Mobile Networks and Applications, 2020, 25, 1042-1051.	2.2	5
45	An LBP encoding scheme jointly using quaternionic representation and angular information. Neural Computing and Applications, 2020, 32, 4317-4323.	3.2	22
46	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
47	Editorial: Cognitive Science and Artificial Intelligence for Human Cognition and Communication. Mobile Networks and Applications, 2020, 25, 995-996.	2.2	1
48	High-quality-guided artificial bee colony algorithm for designing loudspeaker. Neural Computing and Applications, 2020, 32, 4473-4480.	3.2	2
49	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
50	Blind Image Deblurring Based on Local Rank. Mobile Networks and Applications, 2020, 25, 1446-1456.	2.2	3
51	Humanized Computing for Mass Customization Application in Curriculum Management. Mobile Networks and Applications, 2020, 25, 1484-1495.	2.2	4
52	Virtual Reality Sickness and Challenges Behind Different Technology and Content Settings. Mobile Networks and Applications, 2020, 25, 1436-1445.	2.2	20
53	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
54	Ternary Adversarial Networks With Self-Supervision for Zero-Shot Cross-Modal Retrieval. IEEE Transactions on Cybernetics, 2020, 50, 2400-2413.	6.2	142

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55	Improving multi-label chest X-ray disease diagnosis by exploiting disease and health labels dependencies. <i>Multimedia Tools and Applications</i> , 2020, 79, 14889-14902.	2.6	17
56	Wireless high-frequency NLOS monitoring system for heart disease combined with hospital and home. <i>Future Generation Computer Systems</i> , 2020, 110, 772-780.	4.9	11
57	Locality-constrained feature space learning for cross-resolution sketch-photo face recognition. <i>Multimedia Tools and Applications</i> , 2020, 79, 14903-14917.	2.6	0
58	3D-CNN with residual sub-blocks for automatic detection of lung nodules from temporal subtraction images. , 2020, , .		0
59	Deep-sea visual dataset of the South China sea. <i>Wireless Networks</i> , 2020, , 1.	2.0	0
60	Answer Again: Improving VQA with Cascaded-Answering Model. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2020, , 1-1.	4.0	9
61	Cognitive Computing for Intelligence Systems. <i>Mobile Networks and Applications</i> , 2020, 25, 1434-1435.	2.2	0
62	Large-scale optimisation via cooperatively coevolving competition swarm optimiser. <i>Enterprise Information Systems</i> , 2020, 14, 1439-1456.	3.3	7
63	Deep hierarchical encoding model for sentence semantic matching. <i>Journal of Visual Communication and Image Representation</i> , 2020, 71, 102794.	1.7	50
64	Nuclear Norm Regularized Structural Orthogonal Procrustes Regression for Face Hallucination with Pose. <i>Studies in Computational Intelligence</i> , 2020, , 159-169.	0.7	2
65	Dynamics and Isotropic Control of Parallel Mechanisms for Vibration Isolation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 2027-2034.	3.7	36
66	DeepEye: A Dedicated Camera for Deep-Sea Tripod Observation Systems. <i>Studies in Computational Intelligence</i> , 2020, , 507-511.	0.7	0
67	Automatic Extraction of Abnormalities on Temporal CT Subtraction Images Using Sparse Coding and 3D-CNN. <i>Proceedings of International Conference on Artificial Life and Robotics</i> , 2020, 25, 783-786.	0.1	0
68	Correlated Features Synthesis and Alignment for Zero-shot Cross-modal Retrieval. , 2020, , .		13
69	Dilated-aware discriminative correlation filter for visual tracking. <i>World Wide Web</i> , 2019, 22, 791-805.	2.7	10
70	Multi-scale deep context convolutional neural networks for semantic segmentation. <i>World Wide Web</i> , 2019, 22, 555-570.	2.7	100
71	Touch switch sensor for cognitive body sensor networks. <i>Computer Communications</i> , 2019, 146, 32-38.	3.1	2
72	CONet: A Cognitive Ocean Network. <i>IEEE Wireless Communications</i> , 2019, 26, 90-96.	6.6	140

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73	Single Underwater Image Enhancement Based on $L_{\{P\}}$ -Norm Decomposition. IEEE Access, 2019, 7, 145199-145213.	2.6	6
74	Ontology negotiation: Knowledge interchange between distributed ontologies through agent negotiation. Concurrency Computation Practice and Experience, 2019, 33, e5406.	1.4	1
75	Cognitive data science methods and models for engineering applications. Soft Computing, 2019, 23, 9045-9048.	2.1	6
76	Detection of Abnormal Regions on Temporal Subtraction Images based on CNN. , 2019, , .		0
77	Data offloading in cache-enabled cross-haul networks. Computer Communications, 2019, 142-143, 1-8.	3.1	4
78	CAN: Contextual Aggregating Network for Semantic Segmentation. , 2019, , .		9
79	Recognition of surrounding environment from electric wheelchair videos based on modified YOLOv2. Future Generation Computer Systems, 2019, 92, 157-161.	4.9	30
80	Deep adversarial metric learning for cross-modal retrieval. World Wide Web, 2019, 22, 657-672.	2.7	151
81	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
82	Automatic road detection system for an airâ€land amphibious car drone. Future Generation Computer Systems, 2018, 85, 51-59.	4.9	15
83	Non-uniform de-Scattering and de-Blurring of Underwater Images. Mobile Networks and Applications, 2018, 23, 352-362.	2.2	38
84	Low illumination underwater light field images reconstruction using deep convolutional neural networks. Future Generation Computer Systems, 2018, 82, 142-148.	4.9	246
85	FDCNet: filtering deep convolutional network for marine organism classification. Multimedia Tools and Applications, 2018, 77, 21847-21860.	2.6	53
86	Multisensor Image Fusion and Enhancement in Spectral Total Variation Domain. IEEE Transactions on Multimedia, 2018, 20, 866-879.	5.2	111
87	Brain Intelligence: Go beyond Artificial Intelligence. Mobile Networks and Applications, 2018, 23, 368-375.	2.2	807
88	Editorial: Artificial Intelligence for Mobile Robotic Networks. Mobile Networks and Applications, 2018, 23, 326-327.	2.2	1
89	Anxiety Level Detection Using BCI of Minerâ€™s Smart Helmet. Mobile Networks and Applications, 2018, 23, 336-343.	2.2	14
90	Underwater Light Field Depth Map Restoration Using Deep Convolutional Neural Fields. Studies in Computational Intelligence, 2018, , 305-312.	0.7	7

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91	Motor Anomaly Detection for Unmanned Aerial Vehicles Using Reinforcement Learning. IEEE Internet of Things Journal, 2018, 5, 2315-2322.	5.5	373
92	Environment Recognition for Electric Wheelchair Based on YOLOv2. , 2018, , .		5
93	Mobile Intelligence Assisted by Data Analytics and Cognitive Computing. Wireless Communications and Mobile Computing, 2018, 2018, 1-2.	0.8	0
94	IEEE Access Special Section Editorial: Advanced Signal Processing Methods In Medical Imaging. IEEE Access, 2018, 6, 61812-61818.	2.6	2
95	Automatic Detection of Cell Regions in Microscope Images Based on BFED Algorithm. , 2018, , .		1
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	BrainNets: Human Emotion Recognition Using an Internet of Brian Things Platform. , 2018, , .		3
98	PEA: Parallel electrocardiogram-based authentication for smart healthcare systems. Journal of Network and Computer Applications, 2018, 117, 10-16.	5.8	140
99	Fault Location Without Wave Velocity Influence Using Wavelet and Clark Transform. Studies in Computational Intelligence, 2018, , 321-326.	0.7	3
100	A Diffeomorphic Demons Approach to Statistical Shape Modeling. Studies in Computational Intelligence, 2018, , 123-131.	0.7	0
101	Image Processing Based on the Optimal Threshold for Signature Verification. Studies in Computational Intelligence, 2018, , 313-319.	0.7	0
102	Statistical Shape Model Generation Using K-means Clustering. , 2018, , .		1
103	Underwater Image Super-Resolution by Descattering and Fusion. IEEE Access, 2017, 5, 670-679.	2.6	68
104	Wound intensity correction and segmentation with convolutional neural networks. Concurrency Computation Practice and Experience, 2017, 29, e3927.	1.4	185
105	Underwater Optical Image Processing: a Comprehensive Review. Mobile Networks and Applications, 2017, 22, 1204-1211.	2.2	135
106	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
107	Depth Map Reconstruction for Underwater Kinect Camera Using Inpainting and Local Image Mode Filtering. IEEE Access, 2017, 5, 7115-7122.	2.6	38
108	Unsupervised cross-modal retrieval through adversarial learning. , 2017, , .		71

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109	Deep Context Convolutional Neural Networks for Semantic Segmentation. Communications in Computer and Information Science, 2017, , 696-704.	0.4	12
110	Detection of abnormal candidate regions on temporal subtraction images based on DCNN. , 2017, , .		4
111	Automatic identification of circulating tumor cells in fluorescence microscopy images based on AdaBoost. , 2017, , .		1
112	Image registration of vertebral region from CT images based on salient region feature. , 2017, , .		1
113	Energy Harvesting Based Body Area Networks for Smart Health. Sensors, 2017, 17, 1602.	2.1	31
114	Computer Vision for Ocean Observing. Studies in Computational Intelligence, 2017, , 1-16.	0.7	9
115	Turbidity Underwater Image Restoration Using Spectral Properties and Light Compensation. IEICE Transactions on Information and Systems, 2016, E99.D, 219-227.	0.4	28
116	Reconstruction of spatial continuous distribution using improved Lohmann-Type CGHs. , 2016, , .		0
117	Underwater image descattering and quality assessment. , 2016, , .		24
118	Underwater Observing System for Taiping Floodgate in Taiping River of Yangzhou. , 2016, , .		1
119	Super Resolving of the Depth Map for 3D Reconstruction of Underwater Terrain Using Kinect. , 2016, , .		4
120	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
121	A Novel High-Turbidity Underwater Image Quality Assessment Method. , 2016, , .		3
122	Anti-lost Luggage Reminder System Using Electrically Conductive Fiber Antenna Tag. , 2016, , .		1
123	Underwater image de-scattering and classification by deep neural network. Computers and Electrical Engineering, 2016, 54, 68-77.	3.0	141
124	Learning unified binary codes for cross-modal retrieval via latent semantic hashing. Neurocomputing, 2016, 213, 191-203.	3.5	53
125	Single image dehazing through improved atmospheric light estimation. Multimedia Tools and Applications, 2016, 75, 17081-17096.	2.6	67
126	Image restoration method for deep-sea tripod observation systems in the South China Sea. , 2015, , .		0

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127	Using near infrared light for deep sea mining observation systems. , 2015, , .		0
128	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
129	Underwater image enhancement using inherent optical properties. , 2015, , .		3
130	Real-Time Underwater Image Contrast Enhancement Through Guided Filtering. Lecture Notes in Computer Science, 2015, , 137-147.	1.0	2
131	Single underwater image descattering and color correction. , 2015, , .		16
132	Real-Time Visualization System for Deep-Sea Surveying. Mathematical Problems in Engineering, 2014, 2014, 1-10.	0.6	13
133	A Novel Underwater Scene Reconstruction Method. , 2014, , .		4
134	Underwater image dehazing using joint trilateral filter. Computers and Electrical Engineering, 2014, 40, 41-50.	3.0	371
135	Rotation-Invariant Texture Retrieval Based on Complementary Features. , 2014, , .		2
136	Underwater scene enhancement using weighted guided median filter. , 2014, , .		12
137	A Novel Deep-Sea Image Enhancement Method. , 2014, , .		1
138	Underwater image enhancement using guided trigonometric bilateral filter and fast automatic color correction. , 2013, , .		66
139	Multiframe Medical Images Enhancement on Dual Tree Complex Wavelet Transform Domain. , 2013, , .		2
140	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
141	Proposal of a multi-frame images fusion model on dual tree complex wavelet transform domain. , 2013, , .		0
142	Design of freely configurable safety light curtain using hemispherical mirrors. IEEJ Transactions on Electrical and Electronic Engineering, 2013, 8, S110.	0.8	10
143	Cross Depth Image Filter-Based Natural Image Matting. , 2013, , .		3
144	A novel safety light curtain system using a hemispherical mirror. , 2012, , .		3

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145	Robust color image segmentation method based on weighting Fuzzy C-Means Clustering. , 2012, , .		0
146	Ground material distinction method using reflection intensities obtained by ultrasonic sensor. , 2012, , .		3
147	Proposal of alert system for prevention of heat stroke. , 2012, , .		7
148	Maximum Local Energy Based Multifocus Image Fusion in Mirror Extended Curvelet Transform Domain. , 2012, , .		2
149	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
150	Multimodal Medical Image Fusion in Modified Sharp Frequency Localized Contourlet Domain. , 2012, , .		5