Xiangjian He

List of Publications by Year
in descending order

158 papers	4,659 citations	172457 29 h-index	123424 61 g-index
163 all docs	163 docs citations	163 times ranked	4657 citing authors

#	Article	IF	Citations
1	An Optimized IoT-Enabled Big Data Analytics Architecture for Edge–Cloud Computing. IEEE Internet of Things Journal, 2023, 10, 3995-4005.	8.7	15
2	Deep RGB-D Saliency Detection Without Depth. IEEE Transactions on Multimedia, 2022, 24, 755-767.	7.2	8
3	Secure and Reliable Indoor Localization Based on Multitask Collaborative Learning for Large-Scale Buildings. IEEE Internet of Things Journal, 2022, 9, 22291-22303.	8.7	8
4	EdgeLoc: A Robust and Real-Time Localization System Toward Heterogeneous IoT Devices. IEEE Internet of Things Journal, 2022, 9, 3865-3876.	8.7	12
5	DENet: A Universal Network for Counting Crowd With Varying Densities and Scales. IEEE Transactions on Multimedia, 2021, 23, 1060-1068.	7.2	39
6	Novelty Detection and Online Learning for Chunk Data Streams. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2400-2412.	13.9	10
7	Multi-frame feature-fusion-based model for violence detection. Visual Computer, 2021, 37, 1415-1431.	3.5	34
8	*BuildSenSys*: Reusing Building Sensing Data for Traffic Prediction With Cross-Domain Learning. IEEE Transactions on Mobile Computing, 2021, 20, 2154-2171.	5.8	41
9	Enabling Privacy-Preserving Shortest Distance Queries on Encrypted Graph Data. IEEE Transactions on Dependable and Secure Computing, 2021, 18, 192-204.	5.4	24
10	Synthetic CT images for semi-sequential detection and segmentation of lung nodules. Applied Intelligence, 2021, 51, 1616-1628.	5.3	15
11	Nighttime image dehazing based on Retinex and dark channel prior using Taylor series expansion. Computer Vision and Image Understanding, 2021, 202, 103086.	4.7	35
12	Rethinking feature aggregation for deep RGB-D salient object detection. Neurocomputing, 2021, 423, 463-473.	5.9	8
13	*DRL*-GAN: Dual-Stream Representation Learning GAN for Low-Resolution Image Classification in UAV Applications. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 1705-1716.	4.9	20
14	Intelligent Anomaly Detection for Large Network Traffic With Optimized Deep Clustering (ODC) Algorithm. IEEE Access, 2021, 9, 47243-47251.	4.2	13
15	Subspace learning for facial expression recognition: an overview and a new perspective. APSIPA Transactions on Signal and Information Processing, 2021, 10, .	3.3	8
16	Editorial: Machine Learning and Big Data Analytics for IoT-Enabled Smart Cities. Mobile Networks and Applications, 2021, 26, 156-158.	3.3	8
17	Privacy-Preserving Mechanism in Smart Home Using Blockchain. IEEE Access, 2021, 9, 103651-103669.	4.2	30
18	Anomaly3D: Video anomaly detection based on 3D-normality clusters. Journal of Visual Communication and Image Representation, 2021, 75, 103047.	2.8	15

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19	Binarized graph neural network. World Wide Web, 2021, 24, 825-848.	4.0	16
20	Face hallucination based on cluster consistent dictionary learning. IET Image Processing, 2021, 15, 2841-2853.	2.5	1
21	See more than once: Kernel-sharing atrous convolution for semantic segmentation. Neurocomputing, 2021, 443, 26-34.	5.9	23
22	Two-Tier Intrusion Detection Framework for Embedded Systems. IEEE Consumer Electronics Magazine, 2021, 10, 102-108.	2.3	3
23	PDANet: Pyramid density-aware attention based network for accurate crowd counting. Neurocomputing, 2021, 451, 215-230.	5.9	12
24	Fault diagnosis model for photovoltaic array using a dual-channels convolutional neural network with a feature selection structure. Energy Conversion and Management, 2021, 248, 114777.	9.2	15
25	Magnetic Sensor-Based Multi-Vehicle Data Association. IEEE Sensors Journal, 2021, 21, 24709-24719.	4.7	6
26	A Survey on Big Multimedia Data Processing and Management in Smart Cities. ACM Computing Surveys, 2020, 52, 1-29.	23.0	32
27	Hybrid Tree-Rule Firewall for High Speed Data Transmission. IEEE Transactions on Cloud Computing, 2020, 8, 1237-1249.	4.4	12
28	Beyond context: Exploring semantic similarity for small object detection in crowded scenes. Pattern Recognition Letters, 2020, 137, 53-60.	4.2	14
29	QASEC: A secured data communication scheme for mobile Ad-hoc networks. Future Generation Computer Systems, 2020, 109, 604-610.	7.5	27
30	A hybrid encryption technique for Secure-GLOR: The adaptive secure routing protocol for dynamic wireless mesh networks. Future Generation Computer Systems, 2020, 109, 521-530.	7.5	8
31	A Mobile Multimedia Data Collection Scheme for Secured Wireless Multimedia Sensor Networks. IEEE Transactions on Network Science and Engineering, 2020, 7, 274-284.	6.4	26
32	A Survey on Representation Learning Efforts in Cybersecurity Domain. ACM Computing Surveys, 2020, 52, 1-28.	23.0	18
33	A Distributed and Anonymous Data Collection Framework Based on Multilevel Edge Computing Architecture. IEEE Transactions on Industrial Informatics, 2020, 16, 6114-6123.	11.3	20
34	Deep learning for intelligent traffic sensing and prediction: recent advances and future challenges. CCF Transactions on Pervasive Computing and Interaction, 2020, 2, 240-260.	2.6	12
35	Design Framework and Intelligent In-Vehicle Information System for Sensor-Cloud Platform and Applications. IEEE Access, 2020, 8, 201675-201685.	4.2	6
36	Structural correlation filters combined with a Gaussian particle filter for hierarchical visual tracking. Neurocomputing, 2020, 398, 235-246.	5.9	6

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37	FairEdge: A Fairness-Oriented Task Offloading Scheme for Iot Applications in Mobile Cloudlet Networks. IEEE Access, 2020, 8, 13516-13526.	4.2	10
38	A GMS-Guided Approach for 2D Feature Correspondence Selection. IEEE Access, 2020, 8, 36919-36929.	4.2	4
39	RTVD: A Real-Time Volumetric Detection Scheme for DDoS in the Internet of Things. IEEE Access, 2020, 8, 36191-36201.	4.2	53
40	FACLSTM: ConvLSTM with focused attention for scene text recognition. Science China Information Sciences, 2020, 63, 1.	4.3	18
41	See Clearly in the Distance: Representation Learning GAN for Low Resolution Object Recognition. IEEE Access, 2020, 8, 53203-53214.	4.2	8
42	Vehicular networks with security and trust management solutions: proposed secured message exchange via blockchain technology. Wireless Networks, 2020, 26, 4207-4226.	3.0	24
43	A Unified Host-based Intrusion Detection Framework using Spark in Cloud. , 2020, , .		3
44	SAMS: A Seamless and Authorized Multimedia Streaming Framework for WMSN-Based IoMT. IEEE Internet of Things Journal, 2019, 6, 1576-1583.	8.7	44
45	Evolutionarily Optimized Electromagnetic Sensor Measurements for Robust Surgical Navigation. IEEE Sensors Journal, 2019, 19, 10859-10868.	4.7	7
46	UrbanEdge. , 2019, , .		6
47	Building an Improved Internet of Things Smart Sensor Network Based on a Three-Phase Methodology. IEEE Access, 2019, 7, 141728-141737.	4.2	15
48	Atrous Convolution for Binary Semantic Segmentation of Lung Nodule. , 2019, , .		15
49	A Novel Convolutional Neural Network Based Indoor Localization Framework With WiFi Fingerprinting. IEEE Access, 2019, 7, 110698-110709.	4.2	132
50	Residual Magnifier: A Dense Information Flow Network for Super Resolution. , 2019, , .		2
51	Performance-enhancing network pruning for crowd counting. Neurocomputing, 2019, 360, 246-253.	5.9	8
52	Deep Learning Techniques for Medical Image Segmentation: Achievements and Challenges. Journal of Digital Imaging, 2019, 32, 582-596.	2.9	972
53	Cyberthreat-Intelligence Information Sharing: Enhancing Collaborative Security. IEEE Consumer Electronics Magazine, 2019, 8, 17-22.	2.3	20
54	P2DCA: A Privacy-Preserving-Based Data Collection and Analysis Framework for IoMT Applications. IEEE Journal on Selected Areas in Communications, 2019, 37, 1222-1230.	14.0	49

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55	A Novel Multi-Path Anonymous Randomized Key Distribution Scheme for Geo Distributed Networks. , 2019, , .		0
56	DeepText: Detecting Text from the Wild with Multi-ASPP-Assembled DeepLab. , 2019, , .		0
57	CNNLoc: Deep-Learning Based Indoor Localization with WiFi Fingerprinting. , 2019, , .		30
58	MultiScan: A Private Online Virus Detection System. IEEE Consumer Electronics Magazine, 2019, 8, 53-55.	2.3	1
59	Optimization of a Convolutional Neural Network Using a Hybrid Algorithm. , 2019, , .		4
60	Editorial: Dependable wireless industrial communications. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3828.	3.9	0
61	Exploiting the Remote Server Access Support of CoAP Protocol. IEEE Internet of Things Journal, 2019, 6, 9338-9349.	8.7	11
62	Error Concealment for Cloudâ€"Based and Scalable Video Coding of HD Videos. IEEE Transactions on Cloud Computing, 2019, 7, 975-987.	4.4	7
63	Object tracking in the presence of shaking motions. Neural Computing and Applications, 2019, 31, 5917-5934.	5.6	8
64	Guest Editorial Introduction to the Special Issue on Dependable Wireless Vehicular Communications for Intelligent Transportation Systems (ITS). IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 949-952.	8.0	6
65	Performance evaluation of High Definition video streaming over Mobile Ad Hoc Networks. Signal Processing, 2018, 148, 303-313.	3.7	19
66	A Joint Framework for QoS and QoE for Video Transmission over Wireless Multimedia Sensor Networks. IEEE Transactions on Mobile Computing, 2018, 17, 746-759.	5.8	49
67	Editorial: Current and Future Trends in Wireless Communications Protocols and Technologies. Mobile Networks and Applications, 2018, 23, 377-381.	3.3	4
68	A Sybil attack detection scheme for a forest wildfire monitoring application. Future Generation Computer Systems, 2018, 80, 613-626.	7.5	80
69	SUDMAD: Sequential and unsupervised decomposition of a multi-author document based on a hidden markov model. Journal of the Association for Information Science and Technology, 2018, 69, 201-214.	2.9	0
70	Hybrid generativeâ€"discriminative hash tracking with spatio-temporal contextual cues. Neural Computing and Applications, 2018, 29, 389-399.	5.6	5
71	User Relationship Classification of Facebook Messenger Mobile Data using WEKA. Lecture Notes in Computer Science, 2018, , 337-348.	1.3	4
72	Towards System Implementation and Data Analysis for Crowdsensing Based Outdoor RSS Maps. IEEE Access, 2018, 6, 47535-47545.	4.2	12

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73	The multi-level and multi-dimensional quantum wavelet packet transforms. Scientific Reports, 2018, 8, 13884.	3.3	26
74	Energy-Efficient Fault-Tolerant Scheduling Algorithm for Real-Time Tasks in Cloud-Based 5G Networks. IEEE Access, 2018, 6, 53671-53683.	4.2	12
75	A-CCNN: Adaptive CCNN for Density Estimation and Crowd Counting. , 2018, , .		15
76	A Novel Collaborative Task Offloading Scheme for Secure and Sustainable Mobile Cloudlet Networks. IEEE Access, 2018, 6, 44175-44189.	4.2	13
77	Digitisation in facilities management: A literature review and future research directions. Automation in Construction, 2018, 92, 312-326.	9.8	184
78	Mutual information based multi-modal remote sensing image registration using adaptive feature weight. Remote Sensing Letters, 2018, 9, 646-655.	1.4	22
79	Joint Learning of Body and Part Representation for Person Re-Identification. IEEE Access, 2018, 6, 44199-44210.	4.2	9
80	CTOM: Collaborative Task Offloading Mechanism for Mobile Cloudlet Networks. , 2018, , .		13
81	A Novel Hybrid Authentication Model for Geo Location Oriented Routing in Dynamic Wireless Mesh Networks. , 2018, , .		5
82	MoWLD: a robust motion image descriptor for violence detection. Multimedia Tools and Applications, 2017, 76, 1419-1438.	3.9	67
83	User relationship strength modeling for friend recommendation on Instagram. Neurocomputing, 2017, 239, 9-18.	5.9	23
84	Visual Tracking via Nonnegative Multiple Coding. IEEE Transactions on Multimedia, 2017, 19, 2680-2691.	7.2	16
85	Online Social Network Information Forensics: A Survey on Use of Various Tools and Determining How Cautious Facebook Users are?. , 2017, , .		12
86	Secure-GLOR: An Adaptive Secure Routing Protocol for Dynamic Wireless Mesh Networks. , 2017, , .		3
87	PAWN: a payloadâ€based mutual authentication scheme for wireless sensor networks. Concurrency Computation Practice and Experience, 2017, 29, e3986.	2.2	51
88	Cryptography-based secure data storage and sharing using HEVC and public clouds. Information Sciences, 2017, 387, 90-102.	6.9	31
89	Discriminative Dictionary Learning With Motion Weber Local Descriptor for Violence Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 696-709.	8.3	81
90	Time-Frequency Filter Bank: A Simple Approach for Audio and Music Separation. IEEE Access, 2017, 5, 27114-27125.	4.2	10

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91	A comparison of modified evolutionary computation algorithms with applications to three-dimensional endoscopic camera motion tracking. , 2017, , .		3
92	An Improvement of Tree-Rule Firewall for a Large Network: Supporting Large Rule Size and Low Delay. , 2016, , .		2
93	Data Sharing in Secure Multimedia Wireless Sensor Networks. , 2016, , .		18
94	Geo-Location Oriented Routing Protocol for Smart Dynamic Mesh Network. , 2016, , .		4
95	A new method for violence detection in surveillance scenes. Multimedia Tools and Applications, 2016, 75, 7327-7349.	3.9	94
96	Building an Intrusion Detection System Using a Filter-Based Feature Selection Algorithm. IEEE Transactions on Computers, 2016, 65, 2986-2998.	3.4	436
97	A unified model sharing framework for moving object detection. Signal Processing, 2016, 124, 72-80.	3.7	10
98	Frame Interpolation for Cloud-Based Mobile Video Streaming. IEEE Transactions on Multimedia, 2016, 18, 831-839.	7.2	30
99	Shape-appearance-correlated active appearance model. Pattern Recognition, 2016, 56, 88-99.	8.1	12
100	A Secure Routing Scheme for Wireless Mesh Networks. Lecture Notes in Computer Science, 2016, , 393-408.	1.3	3
101	Face hallucination based on nonparametric Bayesian learning. , 2015, , .		1
102	The 21st International Conference on MultiMedia Modeling. IEEE MultiMedia, 2015, 22, 86-88.	1.7	1
103	Observation-driven adaptive differential evolution and its application to accurate and smooth bronchoscope three-dimensional motion tracking. Medical Image Analysis, 2015, 24, 282-296.	11.6	15
104	A Sybil Attack Detection Scheme for a Centralized Clustering-Based Hierarchical Network. , 2015, , .		44
105	Detection of Denial-of-Service Attacks Based on Computer Vision Techniques. IEEE Transactions on Computers, 2015, 64, 2519-2533.	3.4	119
106	Adaptive marker-free registration using a multiple point strategy for real-time and robust endoscope electromagnetic navigation. Computer Methods and Programs in Biomedicine, 2015, 118, 147-157.	4.7	6
107	A camera motion histogram descriptor for video shot classification. Multimedia Tools and Applications, 2015, 74, 11073-11098.	3.9	1
108	Robust visual tracking via efficient manifold ranking with low-dimensional compressive features. Pattern Recognition, 2015, 48, 2459-2473.	8.1	32

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109	Local N -Ary Pattern and Its Extension for Texture Classification. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 1495-1506.	8.3	20
110	Robust electromagnetically guided endoscopic procedure using enhanced particle swarm optimization for multimodal information fusion. Medical Physics, 2015, 42, 1808-1817.	3.0	8
111	Solving reliability redundancy allocation problems with orthogonal simplified swarm optimization. , 2015, , .		2
112	A probability-dynamic Particle Swarm Optimization for object tracking. , 2015, , .		1
113	Survey of Error Concealment techniques: Research directions and open issues. , 2015, , .		23
114	Online gesture-based interaction with visual oriental characters based on manifold learning. Signal Processing, 2015, 110, 123-131.	3.7	3
115	Scalable Semi-Supervised Classification via Neumann Series. Neural Processing Letters, 2015, 42, 187-197.	3.2	4
116	Fast and robust head detection with arbitrary pose and occlusion. Multimedia Tools and Applications, 2015, 74, 9365-9385.	3.9	7
117	Orderless and Blurred Visual Tracking via Spatio-temporal Context. Lecture Notes in Computer Science, 2015, , 25-36.	1.3	3
118	Spectral salient object detection. , 2014, , .		4
119	Visual tracking via graph-based efficient manifold ranking with low-dimensional compressive features. , 2014, , .		5
120	Enhancing Big Data Security with Collaborative Intrusion Detection. IEEE Cloud Computing, 2014, 1, 27-33.	3.9	63
121	A Stateful Mechanism for the Tree-Rule Firewall. , 2014, , .		7
122	Macroscopic Indeterminacy Swarm Optimization (MISO) algorithm for real-parameter search. , 2014, , .		2
123	A Novel Feature Selection Approach for Intrusion Detection Data Classification. , 2014, , .		24
124	Improving cloud network security using the Tree-Rule firewall. Future Generation Computer Systems, 2014, 30, 116-126.	7.5	36
125	A three-level framework for affective content analysis and its case studies. Multimedia Tools and Applications, 2014, 70, 757-779.	3.9	26
126	Bayesian salient object detection based on saliency driven clustering. Signal Processing: Image Communication, 2014, 29, 434-447.	3.2	8

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127	PASCCC: Priority-based application-specific congestion control clustering protocol. Computer Networks, 2014, 74, 92-102.	5.1	55
128	A hybrid domain enhanced framework for video retargeting with spatial–temporal importance and 3D grid optimization. Signal Processing, 2014, 94, 33-47.	3.7	5
129	Interactive segmentation based on iterative learning for multiple-feature fusion. Neurocomputing, 2014, 135, 240-252.	5.9	6
130	A System for Denial-of-Service Attack Detection Based on Multivariate Correlation Analysis. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 447-456.	5.6	195
131	Text Detection in Born-Digital Images Using IT-LBP. Journal of Algorithms and Computational Technology, 2014, 8, 127-142.	0.7	1
132	MIL-SKDE: Multiple-instance learning with supervised kernel density estimation. Signal Processing, 2013, 93, 1471-1484.	3.7	6
133	Hierarchical affective content analysis in arousal and valence dimensions. Signal Processing, 2013, 93, 2140-2150.	3.7	45
134	An algorithm for accuracy enhancement of license plate recognition. Journal of Computer and System Sciences, 2013, 79, 245-255.	1.2	46
135	A segmentation-free method for image classification based on pixel-wise matching. Journal of Computer and System Sciences, 2013, 79, 256-268.	1.2	4
136	TCTM: an evaluation framework for architecture design on wireless sensor networks. International Journal of Sensor Networks, 2013, 14, 168.	0.4	2
137	Wireless Sensor Network (WSN) Energy Efficiency Challenge from Implementation Perspectives. Advanced Science Letters, 2013, 19, 642-645.	0.2	1
138	Border Gateway Protocol Anomaly Detection Using Failure Quality Control Method. , 2012, , .		4
139	The Extended Co-learning Framework for Robust Object Tracking. , 2012, , .		3
140	Directional high-pass filter for blurry image analysis. Signal Processing: Image Communication, 2012, 27, 760-771.	3.2	21
141	A New Universal Generating Function Method for Estimating the Novel Multiresource Multistate Information Network Reliability. IEEE Transactions on Reliability, 2010, 59, 528-538.	4.6	20
142	An efficient error concealment algorithm for H.264/AVC using regression modeling-based prediction. IEEE Transactions on Consumer Electronics, 2010, 56, 2694-2701.	3.6	12
143	Segmenting Characters from License Plate Images with Little Prior Knowledge. , 2010, , .		4
144	A method based on orientation field for skew correction of license plate. , 2009, , .		4

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145	Local Binary Patterns with Mahalanobis Distance Maps for Human Detection. , 2008, , .		4
146	Edge Detection on Hexagonal Structure. Journal of Algorithms and Computational Technology, 2008, 2, 61-78.	0.7	4
147	Fractal Image Compression on Hexagonal Structure. Journal of Algorithms and Computational Technology, 2008, 2, 79-98.	0.7	2
148	Region-based license plate detection. Journal of Network and Computer Applications, 2007, 30, 1324-1333.	9.1	132
149	A novel and uniform image partitioning on spiral architecture. International Journal of Computational Science and Engineering, 2006, 2, 57.	0.5	2
150	Description of the cardiac movement using hexagonal image structures. Computerized Medical Imaging and Graphics, 2006, 30, 377-382.	5.8	3
151	Gaussian Weighted Histogram Intersection for License Plate Classification. , 2006, , .		9
152	Learning-Based License Plate Detection Using Global and Local Features. , 2006, , .		73
153	A Comparison on Histogram Based Image Matching Methods. , 2006, , .		12
154	Automatically Detecting Road Sign Text from Natural Scene Video. , 2006, , .		2
155	Car Plate Detection Using Cascaded Tree-Style Learner Based on Hybrid Object Features. , 2006, , .		16
156	Hexagonal Structure for Intelligent Vision. , 2005, , .		26
157	Replicated shared object model for parallel edge detection algorithm based on spiral architecture. Future Generation Computer Systems, 1998, 14, 341-350.	7.5	4
158	Refined Gaussian Weighted Histogram Intersection and Its Application in Number Plate Categorization. , 0, , .		5