

Xiangjian He

List of Publications by Year in descending order

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158
papers

4,659
citations

172207

29
h-index

123241

61
g-index

163
all docs

163
docs citations

163
times ranked

4657
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Learning Techniques for Medical Image Segmentation: Achievements and Challenges. Journal of Digital Imaging, 2019, 32, 582-596.	1.6	972
2	Building an Intrusion Detection System Using a Filter-Based Feature Selection Algorithm. IEEE Transactions on Computers, 2016, 65, 2986-2998.	2.4	436
3	A System for Denial-of-Service Attack Detection Based on Multivariate Correlation Analysis. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 447-456.	4.0	195
4	Digitisation in facilities management: A literature review and future research directions. Automation in Construction, 2018, 92, 312-326.	4.8	184
5	Region-based license plate detection. Journal of Network and Computer Applications, 2007, 30, 1324-1333.	5.8	132
6	A Novel Convolutional Neural Network Based Indoor Localization Framework With WiFi Fingerprinting. IEEE Access, 2019, 7, 110698-110709.	2.6	132
7	Detection of Denial-of-Service Attacks Based on Computer Vision Techniques. IEEE Transactions on Computers, 2015, 64, 2519-2533.	2.4	119
8	A new method for violence detection in surveillance scenes. Multimedia Tools and Applications, 2016, 75, 7327-7349.	2.6	94
9	Discriminative Dictionary Learning With Motion Weber Local Descriptor for Violence Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 696-709.	5.6	81
10	A Sybil attack detection scheme for a forest wildfire monitoring application. Future Generation Computer Systems, 2018, 80, 613-626.	4.9	80
11	Learning-Based License Plate Detection Using Global and Local Features. , 2006, , .		73
12	MoWLD: a robust motion image descriptor for violence detection. Multimedia Tools and Applications, 2017, 76, 1419-1438.	2.6	67
13	Enhancing Big Data Security with Collaborative Intrusion Detection. IEEE Cloud Computing, 2014, 1, 27-33.	5.3	63
14	PASCCC: Priority-based application-specific congestion control clustering protocol. Computer Networks, 2014, 74, 92-102.	3.2	55
15	RTVD: A Real-Time Volumetric Detection Scheme for DDoS in the Internet of Things. IEEE Access, 2020, 8, 36191-36201.	2.6	53
16	PAWN: a payload-based mutual authentication scheme for wireless sensor networks. Concurrency Computation Practice and Experience, 2017, 29, e3986.	1.4	51
17	A Joint Framework for QoS and QoE for Video Transmission over Wireless Multimedia Sensor Networks. IEEE Transactions on Mobile Computing, 2018, 17, 746-759.	3.9	49
18	P2DCA: A Privacy-Preserving-Based Data Collection and Analysis Framework for IoMT Applications. IEEE Journal on Selected Areas in Communications, 2019, 37, 1222-1230.	9.7	49

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19	An algorithm for accuracy enhancement of license plate recognition. Journal of Computer and System Sciences, 2013, 79, 245-255.	0.9	46
20	Hierarchical affective content analysis in arousal and valence dimensions. Signal Processing, 2013, 93, 2140-2150.	2.1	45
21	A Sybil Attack Detection Scheme for a Centralized Clustering-Based Hierarchical Network. , 2015, , .		44
22	SAMS: A Seamless and Authorized Multimedia Streaming Framework for WMSN-Based IoMT. IEEE Internet of Things Journal, 2019, 6, 1576-1583.	5.5	44
23	<i>BuildSenSys</i> : Reusing Building Sensing Data for Traffic Prediction With Cross-Domain Learning. IEEE Transactions on Mobile Computing, 2021, 20, 2154-2171.	3.9	41
24	DENet: A Universal Network for Counting Crowd With Varying Densities and Scales. IEEE Transactions on Multimedia, 2021, 23, 1060-1068.	5.2	39
25	Improving cloud network security using the Tree-Rule firewall. Future Generation Computer Systems, 2014, 30, 116-126.	4.9	36
26	Nighttime image dehazing based on Retinex and dark channel prior using Taylor series expansion. Computer Vision and Image Understanding, 2021, 202, 103086.	3.0	35
27	Multi-frame feature-fusion-based model for violence detection. Visual Computer, 2021, 37, 1415-1431.	2.5	34
28	Robust visual tracking via efficient manifold ranking with low-dimensional compressive features. Pattern Recognition, 2015, 48, 2459-2473.	5.1	32
29	A Survey on Big Multimedia Data Processing and Management in Smart Cities. ACM Computing Surveys, 2020, 52, 1-29.	16.1	32
30	Cryptography-based secure data storage and sharing using HEVC and public clouds. Information Sciences, 2017, 387, 90-102.	4.0	31
31	Frame Interpolation for Cloud-Based Mobile Video Streaming. IEEE Transactions on Multimedia, 2016, 18, 831-839.	5.2	30
32	CNNLoc: Deep-Learning Based Indoor Localization with WiFi Fingerprinting. , 2019, , .		30
33	Privacy-Preserving Mechanism in Smart Home Using Blockchain. IEEE Access, 2021, 9, 103651-103669.	2.6	30
34	QASEC: A secured data communication scheme for mobile Ad-hoc networks. Future Generation Computer Systems, 2020, 109, 604-610.	4.9	27
35	Hexagonal Structure for Intelligent Vision. , 2005, , .		26
36	A three-level framework for affective content analysis and its case studies. Multimedia Tools and Applications, 2014, 70, 757-779.	2.6	26

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37	The multi-level and multi-dimensional quantum wavelet packet transforms. Scientific Reports, 2018, 8, 13884.	1.6	26
38	A Mobile Multimedia Data Collection Scheme for Secured Wireless Multimedia Sensor Networks. IEEE Transactions on Network Science and Engineering, 2020, 7, 274-284.	4.1	26
39	A Novel Feature Selection Approach for Intrusion Detection Data Classification. , 2014, , .		24
40	Vehicular networks with security and trust management solutions: proposed secured message exchange via blockchain technology. Wireless Networks, 2020, 26, 4207-4226.	2.0	24
41	Enabling Privacy-Preserving Shortest Distance Queries on Encrypted Graph Data. IEEE Transactions on Dependable and Secure Computing, 2021, 18, 192-204.	3.7	24
42	Survey of Error Concealment techniques: Research directions and open issues. , 2015, , .		23
43	User relationship strength modeling for friend recommendation on Instagram. Neurocomputing, 2017, 239, 9-18.	3.5	23
44	See more than once: Kernel-sharing atrous convolution for semantic segmentation. Neurocomputing, 2021, 443, 26-34.	3.5	23
45	Mutual information based multi-modal remote sensing image registration using adaptive feature weight. Remote Sensing Letters, 2018, 9, 646-655.	0.6	22
46	Directional high-pass filter for blurry image analysis. Signal Processing: Image Communication, 2012, 27, 760-771.	1.8	21
47	A New Universal Generating Function Method for Estimating the Novel Multiresource Multistate Information Network Reliability. IEEE Transactions on Reliability, 2010, 59, 528-538.	3.5	20
48	Local $\mathcal{N}(\mu, \sigma^2)$ -Ary Pattern and Its Extension for Texture Classification. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 1495-1506.	5.6	20
49	Cyberthreat-Intelligence Information Sharing: Enhancing Collaborative Security. IEEE Consumer Electronics Magazine, 2019, 8, 17-22.	2.3	20
50	A Distributed and Anonymous Data Collection Framework Based on Multilevel Edge Computing Architecture. IEEE Transactions on Industrial Informatics, 2020, 16, 6114-6123.	7.2	20
51	<i>DRL</i> -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.	2.3	20
52	Performance evaluation of High Definition video streaming over Mobile Ad Hoc Networks. Signal Processing, 2018, 148, 303-313.	2.1	19
53	Data Sharing in Secure Multimedia Wireless Sensor Networks. , 2016, , .		18
54	A Survey on Representation Learning Efforts in Cybersecurity Domain. ACM Computing Surveys, 2020, 52, 1-28.	16.1	18

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55	FACLSTM: ConvLSTM with focused attention for scene text recognition. Science China Information Sciences, 2020, 63, 1.	2.7	18
56	Car Plate Detection Using Cascaded Tree-Style Learner Based on Hybrid Object Features. , 2006, , .		16
57	Visual Tracking via Nonnegative Multiple Coding. IEEE Transactions on Multimedia, 2017, 19, 2680-2691.	5.2	16
58	Binarized graph neural network. World Wide Web, 2021, 24, 825-848.	2.7	16
59	Observation-driven adaptive differential evolution and its application to accurate and smooth bronchoscope three-dimensional motion tracking. Medical Image Analysis, 2015, 24, 282-296.	7.0	15
60	A-CCNN: Adaptive CCNN for Density Estimation and Crowd Counting. , 2018, , .		15
61	Building an Improved Internet of Things Smart Sensor Network Based on a Three-Phase Methodology. IEEE Access, 2019, 7, 141728-141737.	2.6	15
62	Atrous Convolution for Binary Semantic Segmentation of Lung Nodule. , 2019, , .		15
63	Synthetic CT images for semi-sequential detection and segmentation of lung nodules. Applied Intelligence, 2021, 51, 1616-1628.	3.3	15
64	Anomaly3D: Video anomaly detection based on 3D-normality clusters. Journal of Visual Communication and Image Representation, 2021, 75, 103047.	1.7	15
65	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.	4.4	15
66	An Optimized IoT-Enabled Big Data Analytics Architecture for Edge-Cloud Computing. IEEE Internet of Things Journal, 2023, 10, 3995-4005.	5.5	15
67	Beyond context: Exploring semantic similarity for small object detection in crowded scenes. Pattern Recognition Letters, 2020, 137, 53-60.	2.6	14
68	A Novel Collaborative Task Offloading Scheme for Secure and Sustainable Mobile Cloudlet Networks. IEEE Access, 2018, 6, 44175-44189.	2.6	13
69	CTOM: Collaborative Task Offloading Mechanism for Mobile Cloudlet Networks. , 2018, , .		13
70	Intelligent Anomaly Detection for Large Network Traffic With Optimized Deep Clustering (ODC) Algorithm. IEEE Access, 2021, 9, 47243-47251.	2.6	13
71	A Comparison on Histogram Based Image Matching Methods. , 2006, , .		12
72	An efficient error concealment algorithm for H.264/AVC using regression modeling-based prediction. IEEE Transactions on Consumer Electronics, 2010, 56, 2694-2701.	3.0	12

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73	Shape-appearance-correlated active appearance model. Pattern Recognition, 2016, 56, 88-99.	5.1	12
74	Online Social Network Information Forensics: A Survey on Use of Various Tools and Determining How Cautious Facebook Users are?. , 2017, , .		12
75	Towards System Implementation and Data Analysis for Crowdsensing Based Outdoor RSS Maps. IEEE Access, 2018, 6, 47535-47545.	2.6	12
76	Energy-Efficient Fault-Tolerant Scheduling Algorithm for Real-Time Tasks in Cloud-Based 5G Networks. IEEE Access, 2018, 6, 53671-53683.	2.6	12
77	Hybrid Tree-Rule Firewall for High Speed Data Transmission. IEEE Transactions on Cloud Computing, 2020, 8, 1237-1249.	3.1	12
78	Deep learning for intelligent traffic sensing and prediction: recent advances and future challenges. CCF Transactions on Pervasive Computing and Interaction, 2020, 2, 240-260.	1.7	12
79	EdgeLoc: A Robust and Real-Time Localization System Toward Heterogeneous IoT Devices. IEEE Internet of Things Journal, 2022, 9, 3865-3876.	5.5	12
80	PDANet: Pyramid density-aware attention based network for accurate crowd counting. Neurocomputing, 2021, 451, 215-230.	3.5	12
81	Exploiting the Remote Server Access Support of CoAP Protocol. IEEE Internet of Things Journal, 2019, 6, 9338-9349.	5.5	11
82	A unified model sharing framework for moving object detection. Signal Processing, 2016, 124, 72-80.	2.1	10
83	Time-Frequency Filter Bank: A Simple Approach for Audio and Music Separation. IEEE Access, 2017, 5, 27114-27125.	2.6	10
84	FairEdge: A Fairness-Oriented Task Offloading Scheme for IoT Applications in Mobile Cloudlet Networks. IEEE Access, 2020, 8, 13516-13526.	2.6	10
85	Novelty Detection and Online Learning for Chunk Data Streams. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2400-2412.	9.7	10
86	Gaussian Weighted Histogram Intersection for License Plate Classification. , 2006, , .		9
87	Joint Learning of Body and Part Representation for Person Re-Identification. IEEE Access, 2018, 6, 44199-44210.	2.6	9
88	Bayesian salient object detection based on saliency driven clustering. Signal Processing: Image Communication, 2014, 29, 434-447.	1.8	8
89	Robust electromagnetically guided endoscopic procedure using enhanced particle swarm optimization for multimodal information fusion. Medical Physics, 2015, 42, 1808-1817.	1.6	8
90	Performance-enhancing network pruning for crowd counting. Neurocomputing, 2019, 360, 246-253.	3.5	8

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91	Object tracking in the presence of shaking motions. <i>Neural Computing and Applications</i> , 2019, 31, 5917-5934.	3.2	8
92	A hybrid encryption technique for Secure-GLOR: The adaptive secure routing protocol for dynamic wireless mesh networks. <i>Future Generation Computer Systems</i> , 2020, 109, 521-530.	4.9	8
93	See Clearly in the Distance: Representation Learning GAN for Low Resolution Object Recognition. <i>IEEE Access</i> , 2020, 8, 53203-53214.	2.6	8
94	Rethinking feature aggregation for deep RGB-D salient object detection. <i>Neurocomputing</i> , 2021, 423, 463-473.	3.5	8
95	Deep RGB-D Saliency Detection Without Depth. <i>IEEE Transactions on Multimedia</i> , 2022, 24, 755-767.	5.2	8
96	Secure and Reliable Indoor Localization Based on Multitask Collaborative Learning for Large-Scale Buildings. <i>IEEE Internet of Things Journal</i> , 2022, 9, 22291-22303.	5.5	8
97	Subspace learning for facial expression recognition: an overview and a new perspective. <i>APSIPA Transactions on Signal and Information Processing</i> , 2021, 10, .	2.6	8
98	Editorial: Machine Learning and Big Data Analytics for IoT-Enabled Smart Cities. <i>Mobile Networks and Applications</i> , 2021, 26, 156-158.	2.2	8
99	A Stateful Mechanism for the Tree-Rule Firewall. , 2014, , .		7
100	Fast and robust head detection with arbitrary pose and occlusion. <i>Multimedia Tools and Applications</i> , 2015, 74, 9365-9385.	2.6	7
101	Evolutionarily Optimized Electromagnetic Sensor Measurements for Robust Surgical Navigation. <i>IEEE Sensors Journal</i> , 2019, 19, 10859-10868.	2.4	7
102	Error Concealment for Cloud-Based and Scalable Video Coding of HD Videos. <i>IEEE Transactions on Cloud Computing</i> , 2019, 7, 975-987.	3.1	7
103	MIL-SKDE: Multiple-instance learning with supervised kernel density estimation. <i>Signal Processing</i> , 2013, 93, 1471-1484.	2.1	6
104	Interactive segmentation based on iterative learning for multiple-feature fusion. <i>Neurocomputing</i> , 2014, 135, 240-252.	3.5	6
105	Adaptive marker-free registration using a multiple point strategy for real-time and robust endoscope electromagnetic navigation. <i>Computer Methods and Programs in Biomedicine</i> , 2015, 118, 147-157.	2.6	6
106	Guest Editorial Introduction to the Special Issue on Dependable Wireless Vehicular Communications for Intelligent Transportation Systems (ITS). <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018, 19, 949-952.	4.7	6
107	UrbanEdge. , 2019, , .		6
108	Design Framework and Intelligent In-Vehicle Information System for Sensor-Cloud Platform and Applications. <i>IEEE Access</i> , 2020, 8, 201675-201685.	2.6	6

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109	Structural correlation filters combined with a Gaussian particle filter for hierarchical visual tracking. <i>Neurocomputing</i> , 2020, 398, 235-246.	3.5	6
110	Magnetic Sensor-Based Multi-Vehicle Data Association. <i>IEEE Sensors Journal</i> , 2021, 21, 24709-24719.	2.4	6
111	Refined Gaussian Weighted Histogram Intersection and Its Application in Number Plate Categorization. , 0, , .		5
112	Visual tracking via graph-based efficient manifold ranking with low-dimensional compressive features. , 2014, , .		5
113	A hybrid domain enhanced framework for video retargeting with spatial-temporal importance and 3D grid optimization. <i>Signal Processing</i> , 2014, 94, 33-47.	2.1	5
114	Hybrid generative-discriminative hash tracking with spatio-temporal contextual cues. <i>Neural Computing and Applications</i> , 2018, 29, 389-399.	3.2	5
115	A Novel Hybrid Authentication Model for Geo Location Oriented Routing in Dynamic Wireless Mesh Networks. , 2018, , .		5
116	Replicated shared object model for parallel edge detection algorithm based on spiral architecture. <i>Future Generation Computer Systems</i> , 1998, 14, 341-350.	4.9	4
117	Local Binary Patterns with Mahalanobis Distance Maps for Human Detection. , 2008, , .		4
118	Edge Detection on Hexagonal Structure. <i>Journal of Algorithms and Computational Technology</i> , 2008, 2, 61-78.	0.4	4
119	A method based on orientation field for skew correction of license plate. , 2009, , .		4
120	Segmenting Characters from License Plate Images with Little Prior Knowledge. , 2010, , .		4
121	Border Gateway Protocol Anomaly Detection Using Failure Quality Control Method. , 2012, , .		4
122	A segmentation-free method for image classification based on pixel-wise matching. <i>Journal of Computer and System Sciences</i> , 2013, 79, 256-268.	0.9	4
123	Spectral salient object detection. , 2014, , .		4
124	Scalable Semi-Supervised Classification via Neumann Series. <i>Neural Processing Letters</i> , 2015, 42, 187-197.	2.0	4
125	Geo-Location Oriented Routing Protocol for Smart Dynamic Mesh Network. , 2016, , .		4
126	Editorial: Current and Future Trends in Wireless Communications Protocols and Technologies. <i>Mobile Networks and Applications</i> , 2018, 23, 377-381.	2.2	4

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127	User Relationship Classification of Facebook Messenger Mobile Data using WEKA. Lecture Notes in Computer Science, 2018, , 337-348.	1.0	4
128	Optimization of a Convolutional Neural Network Using a Hybrid Algorithm. , 2019, , .		4
129	A GMS-Guided Approach for 2D Feature Correspondence Selection. IEEE Access, 2020, 8, 36919-36929.	2.6	4
130	Description of the cardiac movement using hexagonal image structures. Computerized Medical Imaging and Graphics, 2006, 30, 377-382.	3.5	3
131	The Extended Co-learning Framework for Robust Object Tracking. , 2012, , .		3
132	Online gesture-based interaction with visual oriental characters based on manifold learning. Signal Processing, 2015, 110, 123-131.	2.1	3
133	Secure-GLOR: An Adaptive Secure Routing Protocol for Dynamic Wireless Mesh Networks. , 2017, , .		3
134	A comparison of modified evolutionary computation algorithms with applications to three-dimensional endoscopic camera motion tracking. , 2017, , .		3
135	Two-Tier Intrusion Detection Framework for Embedded Systems. IEEE Consumer Electronics Magazine, 2021, 10, 102-108.	2.3	3
136	Orderless and Blurred Visual Tracking via Spatio-temporal Context. Lecture Notes in Computer Science, 2015, , 25-36.	1.0	3
137	A Secure Routing Scheme for Wireless Mesh Networks. Lecture Notes in Computer Science, 2016, , 393-408.	1.0	3
138	A Unified Host-based Intrusion Detection Framework using Spark in Cloud. , 2020, , .		3
139	A novel and uniform image partitioning on spiral architecture. International Journal of Computational Science and Engineering, 2006, 2, 57.	0.4	2
140	Automatically Detecting Road Sign Text from Natural Scene Video. , 2006, , .		2
141	Fractal Image Compression on Hexagonal Structure. Journal of Algorithms and Computational Technology, 2008, 2, 79-98.	0.4	2
142	TCTM: an evaluation framework for architecture design on wireless sensor networks. International Journal of Sensor Networks, 2013, 14, 168.	0.2	2
143	Macroscopic Indeterminacy Swarm Optimization (MISO) algorithm for real-parameter search. , 2014, , .		2
144	Solving reliability redundancy allocation problems with orthogonal simplified swarm optimization. , 2015, , .		2

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145	An Improvement of Tree-Rule Firewall for a Large Network: Supporting Large Rule Size and Low Delay. , 2016, , .		2
146	Residual Magnifier: A Dense Information Flow Network for Super Resolution. , 2019, , .		2
147	Text Detection in Born-Digital Images Using IT-LBP. Journal of Algorithms and Computational Technology, 2014, 8, 127-142.	0.4	1
148	Face hallucination based on nonparametric Bayesian learning. , 2015, , .		1
149	The 21st International Conference on MultiMedia Modeling. IEEE MultiMedia, 2015, 22, 86-88.	1.5	1
150	A camera motion histogram descriptor for video shot classification. Multimedia Tools and Applications, 2015, 74, 11073-11098.	2.6	1
151	A probability-dynamic Particle Swarm Optimization for object tracking. , 2015, , .		1
152	MultiScan: A Private Online Virus Detection System. IEEE Consumer Electronics Magazine, 2019, 8, 53-55.	2.3	1
153	Face hallucination based on cluster consistent dictionary learning. IET Image Processing, 2021, 15, 2841-2853.	1.4	1
154	Wireless Sensor Network (WSN) Energy Efficiency Challenge from Implementation Perspectives. Advanced Science Letters, 2013, 19, 642-645.	0.2	1
155	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.	1.5	0
156	A Novel Multi-Path Anonymous Randomized Key Distribution Scheme for Geo Distributed Networks. , 2019, , .		0
157	DeepText: Detecting Text from the Wild with Multi-ASPP-Assembled DeepLab. , 2019, , .		0
158	Editorial: Dependable wireless industrial communications. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3828.	2.6	0