

Awais Ahmad

List of Publications by Year in descending order

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117
papers

4,087
citations

122655

33
h-index

133910

59
g-index

123
all docs

123
docs citations

123
times ranked

4897
citing authors

#	ARTICLE	IF	CITATIONS
1	Urban planning and building smart cities based on the Internet of Things using Big Data analytics. <i>Computer Networks</i> , 2016, 101, 63-80.	5.5	708
2	Smartbuddy: defining human behaviors using big data analytics in social internet of things. <i>IEEE Wireless Communications</i> , 2016, 23, 68-74.	10.4	210
3	Deep learning in big data Analytics: A comparative study. <i>Computers and Electrical Engineering</i> , 2019, 75, 275-287.	5.2	163
4	Systematic literature review and empirical investigation of barriers to process improvement in global software development: Clientâ€™s vendor perspective. <i>Information and Software Technology</i> , 2017, 87, 180-205.	4.7	143
5	Cooperative Cognitive Intelligence for Internet of Vehicles. <i>IEEE Systems Journal</i> , 2017, 11, 1249-1258.	4.9	125
6	Real-time Medical Emergency Response System: Exploiting IoT and Big Data for Public Health. <i>Journal of Medical Systems</i> , 2016, 40, 283.	3.9	107
7	Real time intrusion detection system for ultra-high-speed big data environments. <i>Journal of Supercomputing</i> , 2016, 72, 3489-3510.	3.7	92
8	IoT-Based Big Data. <i>International Journal on Semantic Web and Information Systems</i> , 2017, 13, 28-47.	5.4	90
9	Content Based Image Retrieval by Using Color Descriptor and Discrete Wavelet Transform. <i>Journal of Medical Systems</i> , 2018, 42, 44.	3.9	81
10	Smart cyber society: Integration of capillary devices with high usability based on Cyberâ€™Physical System. <i>Future Generation Computer Systems</i> , 2016, 56, 493-503.	8.0	79
11	A Robust Features-Based Person Tracker for Overhead Views in Industrial Environment. <i>IEEE Internet of Things Journal</i> , 2018, 5, 1598-1605.	9.3	79
12	Toward modeling and optimization of features selection in Big Data based social Internet of Things. <i>Future Generation Computer Systems</i> , 2018, 82, 715-726.	8.0	71
13	Real-Time Big Data Stream Processing Using GPU with Spark Over Hadoop Ecosystem. <i>International Journal of Parallel Programming</i> , 2018, 46, 630-646.	1.6	70
14	An IoT-Based Deep Learning Framework for Early Assessment of Covid-19. <i>IEEE Internet of Things Journal</i> , 2021, 8, 15855-15862.	9.3	64
15	Hadoop-Based Intelligent Care System (HICS). <i>ACM Transactions on Internet Technology</i> , 2018, 18, 1-24.	4.6	61
16	Towards Trust and Friendliness Approaches in the Social Internet of Things. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 166.	2.6	60
17	Cooperative Intelligence of Vehicles for Intelligent Transportation Systems (ITS). <i>Wireless Personal Communications</i> , 2016, 87, 461-484.	2.8	59
18	Real-time secure communication for Smart City in high-speed Big Data environment. <i>Future Generation Computer Systems</i> , 2018, 83, 638-652.	8.0	58

#	ARTICLE	IF	CITATIONS
19	A Cluster-Based Data Fusion Technique to Analyze Big Data in Wireless Multi-Sensor System. IEEE Access, 2017, 5, 5069-5083.	4.4	55
20	Tourism, Food, and Culture: Community-Based Tourism, Local Food, and Community Development in Mpondoland. Culture, Agriculture, Food and Environment, 2012, 34, 101-123.	0.8	50
21	An efficient divide-and-conquer approach for big data analytics in machine-to-machine communication. Neurocomputing, 2016, 174, 439-453.	6.2	50
22	Abstractive Text Summarization based on Improved Semantic Graph Approach. International Journal of Parallel Programming, 2018, 46, 992-1016.	1.6	50
23	Efficient Graph-Oriented Smart Transportation Using Internet of Things Generated Big Data. , 2015, , .		49
24	Toward Smart Manufacturing Using Spiral Digital Twin Framework and Twinchain. IEEE Transactions on Industrial Informatics, 2022, 18, 1359-1366.	12.1	48
25	Combining Unmanned Aerial Vehicles With Artificial-Intelligence Technology for Traffic-Congestion Recognition: Electronic Eyes in the Skies to Spot Clogged Roads. IEEE Consumer Electronics Magazine, 2019, 8, 81-86.	2.6	47
26	Medical images fusion by using weighted least squares filter and sparse representation. Computers and Electrical Engineering, 2018, 67, 252-266.	5.2	46
27	Real-Time Route Planning and Data Dissemination for Urban Scenarios Using the Internet of Things. IEEE Wireless Communications, 2019, 26, 50-55.	10.4	45
28	Service Orchestration of Optimizing Continuous Features in Industrial Surveillance Using Big Data Based Fog-Enabled Internet of Things. IEEE Access, 2018, 6, 21582-21591.	4.4	44
29	Top view multiple people tracking by detection using deep SORT and YOLOv3 with transfer learning: within 5G infrastructure. International Journal of Machine Learning and Cybernetics, 2021, 12, 3053-3067.	3.7	44
30	Implications of deep learning for the automation of design patterns organization. Journal of Parallel and Distributed Computing, 2018, 117, 256-266.	4.5	42
31	Nature-inspired algorithm-based secure data dissemination framework for smart city networks. Neural Computing and Applications, 2021, 33, 10637.	5.7	38
32	Medical image fusion method by using Laplacian pyramid and convolutional sparse representation. Concurrency Computation Practice and Experience, 2020, 32, e5632.	2.2	35
33	Multilevel Data Processing Using Parallel Algorithms for Analyzing Big Data in High-Performance Computing. International Journal of Parallel Programming, 2018, 46, 508-527.	1.6	34
34	Enabling multimedia aware vertical handover Management in Internet of Things based heterogeneous wireless networks. Multimedia Tools and Applications, 2017, 76, 25919-25941.	4.2	32
35	Data Transmission Scheme Using Mobile Sink in Static Wireless Sensor Network. Journal of Sensors, 2015, 2015, 1-8.	1.2	30
36	Mobility Aware Energy Efficient Congestion Control in Mobile Wireless Sensor Network. International Journal of Distributed Sensor Networks, 2014, 10, 530416.	2.4	29

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37	Person detector for different overhead views using machine learning. International Journal of Machine Learning and Cybernetics, 2019, 10, 2657-2668.	3.7	28
38	IoT-based crowd monitoring system: Using SSD with transfer learning. Computers and Electrical Engineering, 2021, 93, 107226.	5.2	28
39	Energy efficient hierarchical resource management for mobile cloud computing. IEEE Transactions on Sustainable Computing, 2017, 2, 100-112.	3.5	27
40	MGR: Multi-parameter Green Reliable communication for Internet of Things in 5G network. Journal of Parallel and Distributed Computing, 2018, 118, 34-45.	4.5	27
41	Trajectory Mining Using Uncertain Sensor Data. IEEE Access, 2018, 6, 4895-4903.	4.4	27
42	Fuzzy based multi-criteria vertical handover decision modeling in heterogeneous wireless networks. Multimedia Tools and Applications, 2017, 76, 24649-24674.	4.2	25
43	A Multilayer Deep Learning Approach for Malware Classification in 5G-Enabled IIoT. IEEE Transactions on Industrial Informatics, 2023, 19, 1495-1503.	12.1	24
44	Comparison of Spectral Efficiency Techniques in Device-to-Device Communication for 5G. IEEE Access, 2019, 7, 57440-57449.	4.4	23
45	A Privacy Preserving three-factor authenticated key agreement protocol for client-server environment. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 661-680.	5.3	23
46	An enhanced framework for multimedia data: Green transmission and portrayal for smart traffic system. Computers and Electrical Engineering, 2018, 67, 291-308.	5.2	22
47	Socio-cyber network: The potential of cyber-physical system to define human behaviors using big data analytics. Future Generation Computer Systems, 2019, 92, 868-878.	8.0	22
48	Impact analysis of adverbs for sentiment classification on Twitter product reviews. Concurrency Computation Practice and Experience, 2021, 33, e4956.	2.2	22
49	An architecture to analyze big data in the Internet of Things. , 2015, , .		21
50	Hierarchical architecture for 5G based software-defined intelligent transportation system. , 2018, , .		20
51	Beaconless Traffic-Aware Geographical Routing Protocol for Intelligent Transportation System. IEEE Access, 2020, 8, 187671-187686.	4.4	20
52	Defining Human Behaviors Using Big Data Analytics in Social Internet of Things. , 2016, , .		19
53	Exploiting real-time big data to empower smart transportation using big graphs. , 2016, , .		19
54	A Real-Time Data Mining Approach for Interaction Analytics Assessment: IoT Based Student Interaction Framework. International Journal of Parallel Programming, 2018, 46, 886-903.	1.6	19

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55	Improving resolution of medical images with deep dense convolutional neural network. Concurrency Computation Practice and Experience, 2020, 32, e5084.	2.2	19
56	Exploiting encrypted and tunneled multimedia calls in high-speed big data environment. Multimedia Tools and Applications, 2018, 77, 4959-4984.	4.2	18
57	Intelligent algorithms and standards for interoperability in Internet of Things. Future Generation Computer Systems, 2019, 92, 1187-1191.	8.0	18
58	Towards ontology-based multilingual URL filtering: a big data problem. Journal of Supercomputing, 2018, 74, 5003-5021.	3.7	17
59	Countering Malicious URLs in Internet of Things Using a Knowledge-Based Approach and a Simulated Expert. IEEE Internet of Things Journal, 2020, 7, 4497-4504.	9.3	17
60	Leader-following consensus of delayed multi-agent systems with aperiodically intermittent communications. Neurocomputing, 2021, 466, 49-57.	6.2	17
61	An Efficient Multidimensional Big Data Fusion Approach in Machine-to-Machine Communication. Transactions on Embedded Computing Systems, 2016, 15, 1-25.	3.0	16
62	Hadoop Based Real-Time Intrusion Detection for High-Speed Networks. , 2016, , .		15
63	Advanced security and privacy technique for digital text in smart grid communications. Computers and Electrical Engineering, 2021, 93, 107205.	5.2	15
64	Deep Learning-Based Intrusion Detection System for Internet of Vehicles. IEEE Consumer Electronics Magazine, 2023, 12, 117-123.	2.6	15
65	Hadoop based real-time Big Data Architecture for remote sensing Earth Observatory System. , 2015, , .		14
66	Detecting fraudulent labeling of rice samples using computer vision and fuzzy knowledge. Multimedia Tools and Applications, 2017, 76, 24675-24704.	4.2	14
67	Special issue on bio-medical signal processing for smarter mobile healthcare using big data analytics. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 3739-3745.	5.3	14
68	Infrared and visible images fusion by using sparse representation and guided filter. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2020, 24, 254-263.	4.1	14
69	Minimize the delays in software defined network switch controller communication. Concurrency Computation Practice and Experience, 2022, 34, e5940.	2.2	14
70	Big data analytics of geosocial media for planning and real-time decisions. , 2017, , .		13
71	Vehicle navigation in GPS denied environment for smart cities using vision sensors. Computers, Environment and Urban Systems, 2019, 77, 101281.	7.3	13
72	Defining Service-Oriented Trust Assessment for Social Internet of Things. IEEE Access, 2020, 8, 206459-206473.	4.4	13

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73	Combining Bootstrap Aggregation with Support Vector Regression for Small Blood Pressure Measurement. <i>Journal of Medical Systems</i> , 2018, 42, 63.	3.9	12
74	A Query based Information search in an Individual's Small World of Social Internet of Things. <i>Computer Communications</i> , 2020, 163, 176-185.	5.5	12
75	Dependability and reliability analysis of intra cluster routing technique. <i>Peer-to-Peer Networking and Applications</i> , 2015, 8, 838-850.	4.1	11
76	Emerging Mobile Communication Technologies for Healthcare System in 5G Network. , 2016, , .		11
77	Advanced computing model for geosocial media using big data analytics. <i>Multimedia Tools and Applications</i> , 2017, 76, 24767-24787.	4.2	11
78	Watermarking as a service (WaaS) with anonymity. <i>Multimedia Tools and Applications</i> , 2020, 79, 16051-16075.	4.2	11
79	Big Data and Internet of Things. , 2015, , .		9
80	The Internet of Things based medical emergency management using Hadoop ecosystem. , 2015, , .		9
81	Special issue on real-time image and video processing in mobile embedded systems. <i>Journal of Real-Time Image Processing</i> , 2019, 16, 1-4.	3.5	9
82	Challenges and emerging technologies for sustainable smart cities. <i>Indoor and Built Environment</i> , 2021, 30, 581-584.	2.8	9
83	A generic methodology for geo-related data semantic annotation. <i>Concurrency Computation Practice and Experience</i> , 2018, 30, e4495.	2.2	8
84	Cluster-Based Device Mobility Management in Named Data Networking for Vehicular Networks. <i>Mobile Information Systems</i> , 2018, 2018, 1-7.	0.6	8
85	Bayer image demosaicking and denoising based on specialized networks using deep learning. <i>Multimedia Systems</i> , 2021, 27, 807-819.	4.8	8
86	A novel trust management model for edge computing. <i>Complex & Intelligent Systems</i> , 2022, 8, 3747-3763.	6.5	8
87	Context-Aware Mobile Sensors for Sensing Discrete Events in Smart Environment. <i>Journal of Sensors</i> , 2016, 2016, 1-10.	1.2	7
88	You speak, we detect: Quantitative diagnosis of anomic and Wernicke's aphasia using digital signal processing techniques. , 2017, , .		5
89	h-caldesmon immunoreactivity in atypical fibroxanthoma: implications for the differential diagnosis. <i>Pathology</i> , 2018, 50, 358-361.	0.7	5
90	Optic disc segmentation and classification in color fundus images: a resource-aware healthcare service in smart cities. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2018, , 1.	5.3	5

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91	Software-Defined Internet of Things to Analyze Big Data in Smart Cities. EAI/Springer Innovations in Communication and Computing, 2019, , 91-106.	0.0	5
92	Wireless sensor network design for smart grids and Internet of things for ambient living using cross-layer techniques. International Journal of Distributed Sensor Networks, 2019, 15, 155014771986220.	2.4	4
93	Water rippling shaped clustering strategy for efficient performance of software define wireless sensor networks. Peer-to-Peer Networking and Applications, 2019, 12, 371-380.	4.1	4
94	Offensive Language Detection for Low Resource Language Using Deep Sequence Model. IEEE Transactions on Computational Social Systems, 2024, , 1-9.	5.3	4
95	Real-Time Fake News Detection Using Big Data Analytics and Deep Neural Network. IEEE Transactions on Computational Social Systems, 2024, , 1-10.	5.3	4
96	Optimized data transmission using cooperative devices in clustered D2D communication. , 2014, , .		3
97	High-Speed Network Traffic Analysis: Detecting VoIP Calls in Secure Big Data Streaming. , 2016, , .		3
98	Reference terms identification of cited articles as topics from citation contexts. Computers and Electrical Engineering, 2019, 74, 569-580.	5.2	3
99	Medical image super-resolution with laplacian dense network. Multimedia Tools and Applications, 2022, 81, 3131-3144.	4.2	3
100	Image enhancement in embedded devices for internet of things. Concurrency Computation Practice and Experience, 2021, 33, e5398.	2.2	3
101	IoT-Based Big Data. , 2019, , 1409-1428.		3
102	Energy Aware Simple Ant Routing Algorithm for Wireless Sensor Networks. Mathematical Problems in Engineering, 2015, 2015, 1-11.	1.2	2
103	Pansharpening using a guided image filter based on dual-scale detail extraction. Journal of Ambient Intelligence and Humanized Computing, 2024, 15, 1849-1863.	5.3	2
104	Energy Efficient Green Solution for Hierarchical Resource Management for Mobile Cloud Computing. , 2019, , .		2
105	Smart algorithmic based web crawling and scraping with template autoupdate capabilities. Concurrency Computation Practice and Experience, 2020, , e6042.	2.2	2
106	Smart embedded system based on demosaicking for enhancement of surveillance systems. Computers and Electrical Engineering, 2020, 86, 106731.	5.2	2
107	A multi-layer low-energy adaptive clustering hierarchy for wireless sensor network. , 2017, , .		1
108	TCP CUBIC: A Transport Protocol for Improving the Performance of TCP in Long Distance High Bandwidth Cyber-Physical Systems. , 2018, , .		1

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109	OBAC: towards agent-based identification and classification of roles, objects, permissions (ROP) in distributed environment. Multimedia Tools and Applications, 2020, 79, 34363-34384.	4.2	1
110	Special issue on video and imaging systems for critical engineering applications [SI 1096]. Multimedia Tools and Applications, 2020, 79, 8327-8335.	4.2	1
111	Guest editorial: Special issue on design architecture and applications of smart embedded devices in internet of things. Journal of Systems Architecture, 2021, 115, 102018.	4.6	1
112	Enhancing computational scalability in Blockchain by leveraging improvement in consensus algorithm. Frontiers in Computer Science, 0, 5, .	2.9	1
113	Big Data Analytical Architecture Using Divide-and-Conquer Approach in Machine-to-Machine Communication. , 2015, , .		0
114	Guest Editorial: Special Issue on Emerging Technology for Software Define Network Enabled Internet of Things. International Journal of Parallel Programming, 2020, 48, 157-161.	1.6	0
115	Enhancing <sc>COVID</sc>â€™19 misinformation detection through novel attention mechanisms in <sc>NLP</sc>. Expert Systems, 0, , .	4.5	0
116	Diagnosing Osteoporosis in Postmenopausal Females Using Machine Learning and AdaBoostM1 Algorithm Based on Bone Mineral Density. Journal of Disability Research, 2024, 3, .	0.0	0
117	Alâ€based energy aware parent selection mechanism to enhance security and energy efficiency for smart homes in Internet of Things. Expert Systems, 0, , .	4.5	0