

# Awais Ahmad

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

105  
papers

2,639  
citations

25  
h-index

48  
g-index

114  
ext. papers

3,348  
ext. citations

3.6  
avg, IF

5.8  
L-index

#	Paper	IF	Citations
105	Deep Learning-based Intrusion Detection System for Internet of Vehicles. <i>IEEE Consumer Electronics Magazine</i> , <b>2021</b> , 1-1	3.2	1
104	Advanced security and privacy technique for digital text in smart grid communications. <i>Computers and Electrical Engineering</i> , <b>2021</b> , 93, 107205	4.3	5
103	IoT-based crowd monitoring system: Using SSD with transfer learning. <i>Computers and Electrical Engineering</i> , <b>2021</b> , 93, 107226	4.3	6
102	Impact analysis of adverbs for sentiment classification on Twitter product reviews. <i>Concurrency Computation Practice and Experience</i> , <b>2021</b> , 33, e4956	1.4	11
101	Image enhancement in embedded devices for internet of things. <i>Concurrency Computation Practice and Experience</i> , <b>2021</b> , 33, e5398	1.4	1
100	Bayer image demosaicking and denoising based on specialized networks using deep learning. <i>Multimedia Systems</i> , <b>2021</b> , 27, 807-819	2.2	1
99	A Query based Information search in an Individual's Small World of Social Internet of Things. <i>Computer Communications</i> , <b>2020</b> , 163, 176-185	5.1	4
98	OBAC: towards agent-based identification and classification of roles, objects, permissions (ROP) in distributed environment. <i>Multimedia Tools and Applications</i> , <b>2020</b> , 79, 34363-34384	2.5	1
97	Special issue on video and imaging systems for critical engineering applications [SI 1096]. <i>Multimedia Tools and Applications</i> , <b>2020</b> , 79, 8327-8335	2.5	1
96	Nature-inspired algorithm-based secure data dissemination framework for smart city networks. <i>Neural Computing and Applications</i> , <b>2020</b> , 33, 10637	4.8	13
95	A novel class based searching algorithm in small world internet of drone network. <i>Computer Communications</i> , <b>2020</b> , 157, 329-335	5.1	8
94	Towards Smart Manufacturing Using Spiral Digital Twin Framework and Twinchain. <i>IEEE Transactions on Industrial Informatics</i> , <b>2020</b> , 1-1	11.9	11
93	IoT-Based Big Data <b>2020</b> , 1409-1428		0
92	Medical image fusion method by using Laplacian pyramid and convolutional sparse representation. <i>Concurrency Computation Practice and Experience</i> , <b>2020</b> , 32, e5632	1.4	12
91	Countering Malicious URLs in Internet of Things Using a Knowledge-Based Approach and a Simulated Expert. <i>IEEE Internet of Things Journal</i> , <b>2020</b> , 7, 4497-4504	10.7	8
90	. <i>IEEE Access</i> , <b>2020</b> , 8, 187671-187686	3.5	10
89	Smart algorithmic based web crawling and scraping with template autoupdate capabilities. <i>Concurrency Computation Practice and Experience</i> , <b>2020</b> , e6042	1.4	0

88	Minimize the delays in software defined network switch controller communication. <i>Concurrency Computation Practice and Experience</i> , <b>2020</b> , e5940	1.4	6
87	Medical image super-resolution with laplacian dense network. <i>Multimedia Tools and Applications</i> , <b>2020</b> , 1	2.5	1
86	Smart embedded system based on demosaicking for enhancement of surveillance systems. <i>Computers and Electrical Engineering</i> , <b>2020</b> , 86, 106731	4.3	1
85	Top view multiple people tracking by detection using deep SORT and YOLOv3 with transfer learning: within 5G infrastructure. <i>International Journal of Machine Learning and Cybernetics</i> , <b>2020</b> , 1	3.8	13
84	Defining Service-Oriented Trust Assessment for Social Internet of Things. <i>IEEE Access</i> , <b>2020</b> , 8, 206459-206473	9.5	3
83	An IoT-Based Deep Learning Framework for Early Assessment of Covid-19. <i>IEEE Internet of Things Journal</i> , <b>2020</b> , 1-1	10.7	19
82	Improving resolution of medical images with deep dense convolutional neural network. <i>Concurrency Computation Practice and Experience</i> , <b>2020</b> , 32, e5084	1.4	9
81	Watermarking as a service (WaaS) with anonymity. <i>Multimedia Tools and Applications</i> , <b>2020</b> , 79, 16051-16075	10.3	7
80	Infrared and visible images fusion by using sparse representation and guided filter. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , <b>2020</b> , 24, 254-263	3.2	8
79	Energy Efficient Green Solution for Hierarchical Resource Management for Mobile Cloud Computing <b>2019</b> ,		2
78	Person detector for different overhead views using machine learning. <i>International Journal of Machine Learning and Cybernetics</i> , <b>2019</b> , 10, 2657-2668	3.8	20
77	Combining Unmanned Aerial Vehicles With Artificial-Intelligence Technology for Traffic-Congestion Recognition: Electronic Eyes in the Skies to Spot Clogged Roads. <i>IEEE Consumer Electronics Magazine</i> , <b>2019</b> , 8, 81-86	3.2	23
76	Comparison of Spectral Efficiency Techniques in Device-to-Device Communication for 5G. <i>IEEE Access</i> , <b>2019</b> , 7, 57440-57449	3.5	14
75	Wireless sensor network design for smart grids and Internet of things for ambient living using cross-layer techniques. <i>International Journal of Distributed Sensor Networks</i> , <b>2019</b> , 15, 155014771986220	1.7	0
74	Real-Time Route Planning and Data Dissemination for Urban Scenarios Using the Internet of Things. <i>IEEE Wireless Communications</i> , <b>2019</b> , 26, 50-55	13.4	22
73	Software-Defined Internet of Things to Analyze Big Data in Smart Cities. <i>EAI/Springer Innovations in Communication and Computing</i> , <b>2019</b> , 91-106	0.6	0
72	Towards Trust and Friendliness Approaches in the Social Internet of Things. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 166	2.6	31
71	Special issue on real-time image and video processing in mobile embedded systems. <i>Journal of Real-Time Image Processing</i> , <b>2019</b> , 16, 1-4	1.9	5

70	Vehicle navigation in GPS denied environment for smart cities using vision sensors. <i>Computers, Environment and Urban Systems</i> , <b>2019</b> , 77, 101281	5.9	4
69	Water rippling shaped clustering strategy for efficient performance of software define wireless sensor networks. <i>Peer-to-Peer Networking and Applications</i> , <b>2019</b> , 12, 371-380	3.1	2
68	Deep learning in big data Analytics: A comparative study. <i>Computers and Electrical Engineering</i> , <b>2019</b> , 75, 275-287	4.3	79
67	Energy efficient topology management scheme based on clustering technique for software defined wireless sensor network. <i>Peer-to-Peer Networking and Applications</i> , <b>2019</b> , 12, 348-356	3.1	21
66	Reference terms identification of cited articles as topics from citation contexts. <i>Computers and Electrical Engineering</i> , <b>2019</b> , 74, 569-580	4.3	3
65	A Privacy Preserving three-factor authenticated key agreement protocol for client-server environment. <i>Journal of Ambient Intelligence and Humanized Computing</i> , <b>2019</b> , 10, 661-680	3.7	12
64	Socio-cyber network: The potential of cyber-physical system to define human behaviors using big data analytics. <i>Future Generation Computer Systems</i> , <b>2019</b> , 92, 868-878	7.5	16
63	Service Orchestration of Optimizing Continuous Features in Industrial Surveillance Using Big Data Based Fog-Enabled Internet of Things. <i>IEEE Access</i> , <b>2018</b> , 6, 21582-21591	3.5	31
62	Combining Bootstrap Aggregation with Support Vector Regression for Small Blood Pressure Measurement. <i>Journal of Medical Systems</i> , <b>2018</b> , 42, 63	5.1	7
61	Towards ontology-based multilingual URL filtering: a big data problem. <i>Journal of Supercomputing</i> , <b>2018</b> , 74, 5003-5021	2.5	13
60	An enhanced framework for multimedia data: Green transmission and portrayal for smart traffic system. <i>Computers and Electrical Engineering</i> , <b>2018</b> , 67, 291-308	4.3	20
59	A Robust Features-Based Person Tracker for Overhead Views in Industrial Environment. <i>IEEE Internet of Things Journal</i> , <b>2018</b> , 5, 1598-1605	10.7	56
58	Abstractive Text Summarization based on Improved Semantic Graph Approach. <i>International Journal of Parallel Programming</i> , <b>2018</b> , 46, 992-1016	1.5	23
57	Content Based Image Retrieval by Using Color Descriptor and Discrete Wavelet Transform. <i>Journal of Medical Systems</i> , <b>2018</b> , 42, 44	5.1	50
56	Melanocytic and nevus lesion detection from diseased dermoscopic images using fuzzy and wavelet techniques. <i>Soft Computing</i> , <b>2018</b> , 22, 1577-1593	3.5	6
55	Real-time video processing for traffic control in smart city using Hadoop ecosystem with GPUs. <i>Soft Computing</i> , <b>2018</b> , 22, 1533-1544	3.5	14
54	A Real-Time Data Mining Approach for Interaction Analytics Assessment: IoT Based Student Interaction Framework. <i>International Journal of Parallel Programming</i> , <b>2018</b> , 46, 886-903	1.5	10
53	A generic methodology for geo-related data semantic annotation. <i>Concurrency Computation Practice and Experience</i> , <b>2018</b> , 30, e4495	1.4	3

52	Medical images fusion by using weighted least squares filter and sparse representation. <i>Computers and Electrical Engineering</i> , <b>2018</b> , 67, 252-266	4.3	32
51	MGR: Multi-parameter Green Reliable communication for Internet of Things in 5G network. <i>Journal of Parallel and Distributed Computing</i> , <b>2018</b> , 118, 34-45	4.4	17
50	Exploiting encrypted and tunneled multimedia calls in high-speed big data environment. <i>Multimedia Tools and Applications</i> , <b>2018</b> , 77, 4959-4984	2.5	9
49	Multilevel Data Processing Using Parallel Algorithms for Analyzing Big Data in High-Performance Computing. <i>International Journal of Parallel Programming</i> , <b>2018</b> , 46, 508-527	1.5	18
48	Real-Time Big Data Stream Processing Using GPU with Spark Over Hadoop Ecosystem. <i>International Journal of Parallel Programming</i> , <b>2018</b> , 46, 630-646	1.5	45
47	Implications of deep learning for the automation of design patterns organization. <i>Journal of Parallel and Distributed Computing</i> , <b>2018</b> , 117, 256-266	4.4	29
46	Toward modeling and optimization of features selection in Big Data based social Internet of Things. <i>Future Generation Computer Systems</i> , <b>2018</b> , 82, 715-726	7.5	48
45	Hierarchical architecture for 5G based software-defined intelligent transportation system <b>2018</b> ,		13
44	Pansharpening using a guided image filter based on dual-scale detail extraction. <i>Journal of Ambient Intelligence and Humanized Computing</i> , <b>2018</b> , 1	3.7	1
43	An adaptive hybrid fuzzy-wavelet approach for image steganography using bit reduction and pixel adjustment. <i>Soft Computing</i> , <b>2018</b> , 22, 1555-1567	3.5	9
42	Trajectory Mining Using Uncertain Sensor Data. <i>IEEE Access</i> , <b>2018</b> , 6, 4895-4903	3.5	21
41	Real-time secure communication for Smart City in high-speed Big Data environment. <i>Future Generation Computer Systems</i> , <b>2018</b> , 83, 638-652	7.5	37
40	Cluster-Based Device Mobility Management in Named Data Networking for Vehicular Networks. <i>Mobile Information Systems</i> , <b>2018</b> , 2018, 1-7	1.4	4
39	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> , <b>2018</b> , 1	3.7	4
38	Cooperative Cognitive Intelligence for Internet of Vehicles. <i>IEEE Systems Journal</i> , <b>2017</b> , 11, 1249-1258	4.3	105
37	Fuzzy based multi-criteria vertical handover decision modeling in heterogeneous wireless networks. <i>Multimedia Tools and Applications</i> , <b>2017</b> , 76, 24649-24674	2.5	16
36	. <i>IEEE Access</i> , <b>2017</b> , 5, 5069-5083	3.5	39
35	Detecting fraudulent labeling of rice samples using computer vision and fuzzy knowledge. <i>Multimedia Tools and Applications</i> , <b>2017</b> , 76, 24675-24704	2.5	6

34	Enabling multimedia aware vertical handover Management in Internet of Things based heterogeneous wireless networks. <i>Multimedia Tools and Applications</i> , <b>2017</b> , 76, 25919-25941	2.5	26
33	Advanced computing model for geosocial media using big data analytics. <i>Multimedia Tools and Applications</i> , <b>2017</b> , 76, 24767-24787	2.5	6
32	. <i>IEEE Transactions on Sustainable Computing</i> , <b>2017</b> , 2, 100-112	3.5	21
31	Systematic literature review and empirical investigation of barriers to process improvement in global software development: Client&ndash;Vendor perspective. <i>Information and Software Technology</i> , <b>2017</b> , 87, 180-205	3.4	96
30	IoT-Based Big Data. <i>International Journal on Semantic Web and Information Systems</i> , <b>2017</b> , 13, 28-47	1.4	72
29	You speak, we detect: Quantitative diagnosis of anomic and Wernicke's aphasia using digital signal processing techniques <b>2017</b> ,		2
28	Big data analytics of geosocial media for planning and real-time decisions <b>2017</b> ,		8
27	Hadoop-Based Intelligent Care System (HICS). <i>ACM Transactions on Internet Technology</i> , <b>2017</b> , 18, 1-24	3.8	46
26	Cooperative Intelligence of Vehicles for Intelligent Transportation Systems (ITS). <i>Wireless Personal Communications</i> , <b>2016</b> , 87, 461-484	1.9	40
25	Exploiting real-time big data to empower smart transportation using big graphs <b>2016</b> ,		11
24	Emerging Mobile Communication Technologies for Healthcare System in 5G Network <b>2016</b> ,		8
23	Real-time Medical Emergency Response System: Exploiting IoT and Big Data for Public Health. <i>Journal of Medical Systems</i> , <b>2016</b> , 40, 283	5.1	76
22	. <i>IEEE Wireless Communications</i> , <b>2016</b> , 23, 68-74	13.4	173
21	An Efficient Multidimensional Big Data Fusion Approach in Machine-to-Machine Communication. <i>Transactions on Embedded Computing Systems</i> , <b>2016</b> , 15, 1-25	1.8	12
20	Real time intrusion detection system for ultra-high-speed big data environments. <i>Journal of Supercomputing</i> , <b>2016</b> , 72, 3489-3510	2.5	63
19	Urban planning and building smart cities based on the Internet of Things using Big Data analytics. <i>Computer Networks</i> , <b>2016</b> , 101, 63-80	5.4	490
18	Smart cyber society: Integration of capillary devices with high usability based on Cyber&ndash;Physical System. <i>Future Generation Computer Systems</i> , <b>2016</b> , 56, 493-503	7.5	65
17	An efficient divide-and-conquer approach for big data analytics in machine-to-machine communication. <i>Neurocomputing</i> , <b>2016</b> , 174, 439-453	5.4	41

16	Context-Aware Mobile Sensors for Sensing Discrete Events in Smart Environment. <i>Journal of Sensors</i> , <b>2016</b> , 2016, 1-10	2	7
15	Hadoop Based Real-Time Intrusion Detection for High-Speed Networks <b>2016</b> ,		11
14	High-Speed Network Traffic Analysis: Detecting VoIP Calls in Secure Big Data Streaming <b>2016</b> ,		1
13	Defining Human Behaviors Using Big Data Analytics in Social Internet of Things <b>2016</b> ,		16
12	An architecture to analyze big data in the Internet of Things <b>2015</b> ,		14
11	Big Data and Internet of Things <b>2015</b> ,		7
10	Energy Aware Simple Ant Routing Algorithm for Wireless Sensor Networks. <i>Mathematical Problems in Engineering</i> , <b>2015</b> , 2015, 1-11	1.1	
9	Data Transmission Scheme Using Mobile Sink in Static Wireless Sensor Network. <i>Journal of Sensors</i> , <b>2015</b> , 2015, 1-8	2	17
8	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2015</b> , 8, 4610-4621	4.7	104
7	The Internet of Things based medical emergency management using Hadoop ecosystem <b>2015</b> ,		6
6	Efficient Graph-Oriented Smart Transportation Using Internet of Things Generated Big Data <b>2015</b> ,		31
5	Hadoop based real-time Big Data Architecture for remote sensing Earth Observatory System <b>2015</b> ,		9
4	Dependability and reliability analysis of intra cluster routing technique. <i>Peer-to-Peer Networking and Applications</i> , <b>2015</b> , 8, 838-850	3.1	10
3	Mobility Aware Energy Efficient Congestion Control in Mobile Wireless Sensor Network. <i>International Journal of Distributed Sensor Networks</i> , <b>2014</b> , 10, 530416	1.7	24
2	Optimized data transmission using cooperative devices in clustered D2D communication <b>2014</b> ,		2
1	A novel trust management model for edge computing. <i>Complex &amp; Intelligent Systems</i> ,1	7.1	1