

# Ahmed Shihab Albahri

## List of Publications by Year in descending order

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Version: 2024-02-01

73  
papers

4,509  
citations

70961

41  
h-index

110170

64  
g-index

73  
all docs

73  
docs citations

73  
times ranked

2184  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sentiment analysis and its applications in fighting COVID-19 and infectious diseases: A systematic review. <i>Expert Systems With Applications</i> , 2021, 167, 114155.	4.4	209
2	Role of biological Data Mining and Machine Learning Techniques in Detecting and Diagnosing the Novel Coronavirus (COVID-19): A Systematic Review. <i>Journal of Medical Systems</i> , 2020, 44, 122.	2.2	192
3	Systematic review of artificial intelligence techniques in the detection and classification of COVID-19 medical images in terms of evaluation and benchmarking: Taxonomy analysis, challenges, future solutions and methodological aspects. <i>Journal of Infection and Public Health</i> , 2020, 13, 1381-1396.	1.9	182
4	Telehealth utilization during the Covid-19 pandemic: A systematic review. <i>Computers in Biology and Medicine</i> , 2021, 138, 104878.	3.9	181
5	Smart Home-based IoT for Real-time and Secure Remote Health Monitoring of Triage and Priority System using Body Sensors: Multi-driven Systematic Review. <i>Journal of Medical Systems</i> , 2019, 43, 42.	2.2	154
6	IoT-based telemedicine for disease prevention and health promotion: State-of-the-Art. <i>Journal of Network and Computer Applications</i> , 2021, 173, 102873.	5.8	141
7	Systematic Review of Real-time Remote Health Monitoring System in Triage and Priority-Based Sensor Technology: Taxonomy, Open Challenges, Motivation and Recommendations. <i>Journal of Medical Systems</i> , 2018, 42, 80.	2.2	133
8	How smart is e-tourism? A systematic review of smart tourism recommendation system applying data management. <i>Computer Science Review</i> , 2021, 39, 100337.	10.2	106
9	Fault-Tolerant mHealth Framework in the Context of IoT-Based Real-Time Wearable Health Data Sensors. <i>IEEE Access</i> , 2019, 7, 50052-50080.	2.6	103
10	A survey on communication components for IoT-based technologies in smart homes. <i>Telecommunication Systems</i> , 2018, 69, 1-25.	1.6	102
11	Real-Time Remote-Health Monitoring Systems: a Review on Patients Prioritisation for Multiple-Chronic Diseases, Taxonomy Analysis, Concerns and Solution Procedure. <i>Journal of Medical Systems</i> , 2019, 43, 223.	2.2	101
12	Real-Time Remote Health-Monitoring Systems in a Medical Centre: A Review of the Provision of Healthcare Services-Based Body Sensor Information, Open Challenges and Methodological Aspects. <i>Journal of Medical Systems</i> , 2018, 42, 164.	2.2	92
13	Conceptual framework for the security of mobile health applications on Android platform. <i>Telematics and Informatics</i> , 2018, 35, 1335-1354.	3.5	91
14	Systematic Review of an Automated Multiclass Detection and Classification System for Acute Leukaemia in Terms of Evaluation and Benchmarking, Open Challenges, Issues and Methodological Aspects. <i>Journal of Medical Systems</i> , 2018, 42, 204.	2.2	91
15	Based on Real Time Remote Health Monitoring Systems: A New Approach for Prioritization of Large Scales Data of Patients with Chronic Heart Diseases Using Body Sensors and Communication Technology. <i>Journal of Medical Systems</i> , 2018, 42, 69.	2.2	90
16	Electronic medical record systems: decision support examination framework for individual, security and privacy concerns using multi-perspective analysis. <i>Health and Technology</i> , 2020, 10, 795-822.	2.1	88
17	Blockchain authentication of network applications: Taxonomy, classification, capabilities, open challenges, motivations, recommendations and future directions. <i>Computer Standards and Interfaces</i> , 2019, 64, 41-60.	3.8	87
18	Real-Time Fault-Tolerant mHealth System: Comprehensive Review of Healthcare Services, Opens Issues, Challenges and Methodological Aspects. <i>Journal of Medical Systems</i> , 2018, 42, 137.	2.2	84

#	ARTICLE	IF	CITATIONS
19	Helping doctors hasten COVID-19 treatment: Towards a rescue framework for the transfusion of best convalescent plasma to the most critical patients based on biological requirements via ml and novel MCDM methods. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 196, 105617.	2.6	83
20	Detection-based prioritisation: Framework of multi-laboratory characteristics for asymptomatic COVID-19 carriers based on integrated Entropyâ€”TOPSIS methods. <i>Artificial Intelligence in Medicine</i> , 2021, 111, 101983.	3.8	82
21	Multi-Biological Laboratory Examination Framework for the Prioritization of Patients with COVID-19 Based on Integrated AHP and Group VIKOR Methods. <i>International Journal of Information Technology and Decision Making</i> , 2020, 19, 1247-1269.	2.3	81
22	Based Multiple Heterogeneous Wearable Sensors: A Smart Real-Time Health Monitoring Structured for Hospitals Distributor. <i>IEEE Access</i> , 2019, 7, 37269-37323.	2.6	80
23	A review on smartphone skin cancer diagnosis apps in evaluation and benchmarking: coherent taxonomy, open issues and recommendation pathway solution. <i>Health and Technology</i> , 2018, 8, 223-238.	2.1	74
24	Medical emergency triage and patient prioritisation in a telemedicine environment: a systematic review. <i>Health and Technology</i> , 2019, 9, 679-700.	2.1	70
25	Multiclass Benchmarking Framework for Automated Acute Leukaemia Detection and Classification Based on BWM and Group-VIKOR. <i>Journal of Medical Systems</i> , 2019, 43, 212.	2.2	70
26	Interval type 2 trapezoidalâ€”fuzzy weighted with zero inconsistency combined with VIKOR for evaluating smart eâ€”tourism applications. <i>International Journal of Intelligent Systems</i> , 2021, 36, 4723-4774.	3.3	66
27	Mobile Patient Monitoring Systems from a Benchmarking Aspect: Challenges, Open Issues and Recommended Solutions. <i>Journal of Medical Systems</i> , 2019, 43, 207.	2.2	64
28	Mobile-Based Patient Monitoring Systems: A Prioritisation Framework Using Multi-Criteria Decision-Making Techniques. <i>Journal of Medical Systems</i> , 2019, 43, 219.	2.2	64
29	Sensor-Based mHealth Authentication for Real-Time Remote Healthcare Monitoring System: A Multilayer Systematic Review. <i>Journal of Medical Systems</i> , 2019, 43, 33.	2.2	61
30	Multidimensional benchmarking of the active queue management methods of network congestion control based on extension of fuzzy decision by opinion score method. <i>International Journal of Intelligent Systems</i> , 2021, 36, 796-831.	3.3	61
31	Multi-agent learning neural network and Bayesian model for real-time IoT skin detectors: a new evaluation and benchmarking methodology. <i>Neural Computing and Applications</i> , 2020, 32, 8315-8366.	3.2	60
32	Comprehensive review and analysis of anti-malware apps for smartphones. <i>Telecommunication Systems</i> , 2019, 72, 285-337.	1.6	57
33	Based blockchain-PSO-AES techniques in finger vein biometrics: A novel verification secure framework for patient authentication. <i>Computer Standards and Interfaces</i> , 2019, 66, 103343.	3.8	56
34	Novel technique for reorganisation of opinion order to interval levels for solving several instances representing prioritisation in patients with multiple chronic diseases. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 185, 105151.	2.6	56
35	Rise of multiattribute decisionâ€”making in combating COVIDâ€”19: A systematic review of the stateâ€”ofâ€”theâ€”art literature. <i>International Journal of Intelligent Systems</i> , 2022, 37, 3514-3624.	3.3	55
36	Novel dynamic fuzzy Decision-Making framework for COVID-19 vaccine dose recipients. <i>Journal of Advanced Research</i> , 2022, 37, 147-168.	4.4	52

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37	Integration of fuzzy-weighted zero-inconsistency and fuzzy decision by opinion score methods under a q-rung orthopair environment: A distribution case study of COVID-19 vaccine doses. <i>Computer Standards and Interfaces</i> , 2022, 80, 103572.	3.8	52
38	Based on T-spherical fuzzy environment: A combination of FWZIC and FDOSM for prioritising COVID-19 vaccine dose recipients. <i>Journal of Infection and Public Health</i> , 2021, 14, 1513-1559.	1.9	51
39	A Uniform Intelligent Prioritisation for Solving Diverse and Big Data Generated From Multiple Chronic Diseases Patients Based on Hybrid Decision-Making and Voting Method. <i>IEEE Access</i> , 2020, 8, 91521-91530.	2.6	49
40	Comprehensive Insights Into the Criteria of Student Performance in Various Educational Domains. <i>IEEE Access</i> , 2018, 6, 73245-73264.	2.6	46
41	Real-Time Medical Systems Based on Human Biometric Steganography: a Systematic Review. <i>Journal of Medical Systems</i> , 2018, 42, 245.	2.2	44
42	Real-Time Remote Health Monitoring Systems Using Body Sensor Information and Finger Vein Biometric Verification: A Multi-Layer Systematic Review. <i>Journal of Medical Systems</i> , 2018, 42, 238.	2.2	43
43	Hybrid artificial neural network and structural equation modelling techniques: a survey. <i>Complex &amp; Intelligent Systems</i> , 2022, 8, 1781-1801.	4.0	41
44	Based on the multi-assessment model: Towards a new context of combining the artificial neural network and structural equation modelling: A review. <i>Chaos, Solitons and Fractals</i> , 2021, 153, 111445.	2.5	41
45	Convalescent-plasma-transfusion intelligent framework for rescuing COVID-19 patients across centralised/decentralised telemedicine hospitals based on AHP-group TOPSIS and matching component. <i>Applied Intelligence</i> , 2021, 51, 2956-2987.	3.3	40
46	MOGSABAT: a metaheuristic hybrid algorithm for solving multi-objective optimisation problems. <i>Neural Computing and Applications</i> , 2020, 32, 3101-3115.	3.2	37
47	Based Medical Systems for Patient's Authentication: Towards a New Verification Secure Framework Using CIA Standard. <i>Journal of Medical Systems</i> , 2019, 43, 192.	2.2	36
48	Finger Vein Biometrics: Taxonomy Analysis, Open Challenges, Future Directions, and Recommended Solution for Decentralised Network Architectures. <i>IEEE Access</i> , 2020, 8, 9821-9845.	2.6	36
49	Novel Triplex Procedure for Ranking the Ability of Software Engineering Students Based on Two levels of AHP and Group TOPSIS Techniques. <i>International Journal of Information Technology and Decision Making</i> , 2021, 20, 67-135.	2.3	35
50	Benchmarking of AQM methods of network congestion control based on extension of interval type-2 trapezoidal fuzzy decision by opinion score method. <i>Telecommunication Systems</i> , 2021, 77, 493-522.	1.6	33
51	Multi-criteria decision-making for coronavirus disease 2019 applications: a theoretical analysis review. <i>Artificial Intelligence Review</i> , 2022, 55, 4979-5062.	9.7	33
52	Development of IoT-based mhealth framework for various cases of heart disease patients. <i>Health and Technology</i> , 2021, 11, 1013-1033.	2.1	31
53	PSO's Blockchain-based image steganography: towards a new method to secure updating and sharing COVID-19 data in decentralised hospitals intelligence architecture. <i>Multimedia Tools and Applications</i> , 2021, 80, 14137-14161.	2.6	31
54	New Method of Image Steganography Based on Particle Swarm Optimization Algorithm in Spatial Domain for High Embedding Capacity. <i>IEEE Access</i> , 2019, 7, 168994-169010.	2.6	30

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55	mHealth Authentication Approach Based 3D Touchscreen and Microphone Sensors for Real-Time Remote Healthcare Monitoring System: Comprehensive Review, Open Issues and Methodological Aspects. <i>Computer Science Review</i> , 2020, 38, 100300.	10.2	30
56	New mHealth hospital selection framework supporting decentralised telemedicine architecture for outpatient cardiovascular disease-based integrated techniques: Haversine-GPS and AHP-VIKOR. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 0, , 1.	3.3	28
57	Extension of interval-valued Pythagorean FDOSM for evaluating and benchmarking real-time SLRSs based on multidimensional criteria of hand gesture recognition and sensor glove perspectives. <i>Applied Soft Computing Journal</i> , 2022, 116, 108284.	4.1	27
58	Real-time-based E-health systems: design and implementation of a lightweight key management protocol for securing sensitive information of patients. <i>Health and Technology</i> , 2019, 9, 93-111.	2.1	26
59	A pattern recognition model for static gestures in malaysian sign language based on machine learning techniques. <i>Computers and Electrical Engineering</i> , 2021, 95, 107383.	3.0	25
60	Based on neutrosophic fuzzy environment: a new development of FWZIC and FDOSM for benchmarking smart e-tourism applications. <i>Complex &amp; Intelligent Systems</i> , 2022, 8, 3479-3503.	4.0	25
61	Multidimensional Benchmarking Framework for AQMs of Network Congestion Control Based on AHP and Group-TOPSIS. <i>International Journal of Information Technology and Decision Making</i> , 2021, 20, 1409-1446.	2.3	23
62	Real-time sign language framework based on wearable device: analysis of MSL, DataGlove, and gesture recognition. <i>Soft Computing</i> , 2021, 25, 11101-11122.	2.1	23
63	A new extension of FDOSM based on Pythagorean fuzzy environment for evaluating and benchmarking sign language recognition systems. <i>Neural Computing and Applications</i> , 2022, 34, 4937-4955.	3.2	23
64	Dempsterâ€™Shafer theory for classification and hybridised models of multi-criteria decision analysis for prioritisation: a telemedicine framework for patients with heart diseases. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2022, 13, 4333-4367.	3.3	22
65	New Extension of Fuzzy-Weighted Zero-Inconsistency and Fuzzy Decision by Opinion Score Method Based on Cubic Pythagorean Fuzzy Environment: A Benchmarking Case Study of Sign Language Recognition Systems. <i>International Journal of Fuzzy Systems</i> , 2022, 24, 1909-1926.	2.3	22
66	Triage and priority-based healthcare diagnosis using artificial intelligence for autism spectrum disorder and gene contribution: A systematic review. <i>Computers in Biology and Medicine</i> , 2022, 146, 105553.	3.9	20
67	Rescuing emergency cases of COVID-19 patients: An intelligent real-time MSC transfusion framework based on multicriteria decision-making methods. <i>Applied Intelligence</i> , 2022, 52, 9676-9700.	3.3	18
68	The role of patientsâ€™ families in treatment decision-making among adult cancer patients in the Sultanate of Oman. <i>European Journal of Cancer Care</i> , 2018, 27, e12845.	0.7	16
69	Systematic review of training environments with motor imagery brainâ€™computer interface: Coherent taxonomy, open issues and recommendation pathway solution. <i>Health and Technology</i> , 2021, 11, 783-801.	2.1	16
70	Development of the Internet of Things sensory technology for ensuring proper indoor air quality in hospital facilities: Taxonomy analysis, challenges, motivations, open issues and recommended solution. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 192, 110920.	2.5	14
71	Diagnosis-Based Hybridization of Multimodal Tests and Sociodemographic Characteristics of Autism Spectrum Disorder Using Artificial Intelligence and Machine Learning Techniques: A Systematic Review. <i>International Journal of Telemedicine and Applications</i> , 2022, 2022, 1-26.	1.1	12
72	An approach to pedestrian walking behaviour classification in wireless communication and network failure contexts. <i>Complex &amp; Intelligent Systems</i> , 2022, 8, 909-931.	4.0	7

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73	Development of a real-time monitoring and detection indoor air quality system for intensive care unit and emergency department. , 2022, , .		4