

Bilal Bahaa Zaidan

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

4,431
citations

50273

46
h-index

114455

63
g-index

78
all docs

78
docs citations

78
times ranked

1741
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.	7.6	209
2	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.	4.1	182
3	Evaluation and selection of open-source EMR software packages based on integrated AHP and TOPSIS. <i>Journal of Biomedical Informatics</i> , 2015, 53, 390-404.	4.3	159
4	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.	3.6	133
5	How smart is e-tourism? A systematic review of smart tourism recommendation system applying data management. <i>Computer Science Review</i> , 2021, 39, 100337.	15.3	106
6	On the Differences between Hiding Information and Cryptography Techniques: An Overview. <i>Journal of Applied Sciences</i> , 2010, 10, 1650-1655.	0.3	106
7	Fault-Tolerant mHealth Framework in the Context of IoT-Based Real-Time Wearable Health Data Sensors. <i>IEEE Access</i> , 2019, 7, 50052-50080.	4.2	103
8	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.	3.6	101
9	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.	3.6	92
10	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.	3.6	91
11	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.	3.6	90
12	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.	3.6	88
13	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.	3.6	84
14	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.	4.7	83
15	Novel Methodology for Triage and Prioritizing Using of Big Data of Patients with Chronic Heart Diseases Through Telemedicine Environmental. <i>International Journal of Information Technology and Decision Making</i> , 2017, 16, 1211-1245.	3.9	81
16	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.	3.9	81
17	Based Multiple Heterogeneous Wearable Sensors: A Smart Real-Time Health Monitoring Structured for Hospitals Distributor. <i>IEEE Access</i> , 2019, 7, 37269-37323.	4.2	80
18	Medical emergency triage and patient prioritisation in a telemedicine environment: a systematic review. <i>Health and Technology</i> , 2019, 9, 679-700.	3.6	70

#	ARTICLE	IF	CITATIONS
19	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.	3.6	70
20	Fuzzy decision by opinion score method. <i>Applied Soft Computing Journal</i> , 2020, 96, 106595.	7.2	70
21	A methodology for football players selection problem based on multi-measurements criteria analysis. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017, 111, 38-50.	5.0	69
22	Determining Importance of Many-Objective Optimisation Competitive Algorithms Evaluation Criteria Based on a Novel Fuzzy-Weighted Zero-Inconsistency Method. <i>International Journal of Information Technology and Decision Making</i> , 2022, 21, 195-241.	3.9	66
23	Interval type 2 trapezoidal fuzzy weighted with zero inconsistency combined with VIKOR for evaluating smart e-tourism applications. <i>International Journal of Intelligent Systems</i> , 2021, 36, 4723-4774.	5.7	66
24	Hiding Data in Video File: An Overview. <i>Journal of Applied Sciences</i> , 2010, 10, 1644-1649.	0.3	66
25	Assessment and Ranking Framework for the English Skills of Pre-Service Teachers Based on Fuzzy Delphi and TOPSIS Methods. <i>IEEE Access</i> , 2019, 7, 126201-126223.	4.2	65
26	A Novel Multi-Perspective Benchmarking Framework for Selecting Image Dehazing Intelligent Algorithms Based on BWM and Group VIKOR Techniques. <i>International Journal of Information Technology and Decision Making</i> , 2020, 19, 909-957.	3.9	65
27	An Overview on Hiding Information Technique in Images. <i>Journal of Applied Sciences</i> , 2010, 10, 2094-2100.	0.3	65
28	Mobile Patient Monitoring Systems from a Benchmarking Aspect: Challenges, Open Issues and Recommended Solutions. <i>Journal of Medical Systems</i> , 2019, 43, 207.	3.6	64
29	Mobile-Based Patient Monitoring Systems: A Prioritisation Framework Using Multi-Criteria Decision-Making Techniques. <i>Journal of Medical Systems</i> , 2019, 43, 219.	3.6	64
30	Comparative study on the evaluation and benchmarking information hiding approaches based multi-measurement analysis using TOPSIS method with different normalisation, separation and context techniques. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 117, 277-294.	5.0	61
31	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.	5.7	61
32	Novel Multi Security and Privacy Benchmarking Framework for Blockchain-Based IoT Healthcare Industry 4.0 Systems. <i>IEEE Transactions on Industrial Informatics</i> , 2022, 18, 6415-6423.	11.3	61
33	On the Capacity and Security of Steganography Approaches: An Overview. <i>Journal of Applied Sciences</i> , 2010, 10, 1825-1833.	0.3	60
34	The rise of keyloggers on smartphones: A survey and insight into motion-based tap inference attacks. <i>Pervasive and Mobile Computing</i> , 2016, 25, 1-25.	3.3	59
35	Comprehensive insights into evaluation and benchmarking of real-time skin detectors: Review, open issues & challenges, and recommended solutions. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 114, 243-260.	5.0	59
36	Comprehensive review and analysis of anti-malware apps for smartphones. <i>Telecommunication Systems</i> , 2019, 72, 285-337.	2.5	57

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37	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.	4.7	56
38	Impact of Data Privacy and Confidentiality on Developing Telemedicine Applications: A Review Participates Opinion and Expert Concerns. <i>International Journal of Pharmacology</i> , 2011, 7, 382-387.	0.3	56
39	Rise of multiattribute decision-making in combating COVID-19: A systematic review of the state-of-the-art literature. <i>International Journal of Intelligent Systems</i> , 2022, 37, 3514-3624.	5.7	55
40	Technique for order performance by similarity to ideal solution for solving complex situations in multi-criteria optimization of the tracking channels of GPS baseband telecommunication receivers. <i>Telecommunication Systems</i> , 2018, 68, 425-443.	2.5	54
41	Novel dynamic fuzzy Decision-Making framework for COVID-19 vaccine dose recipients. <i>Journal of Advanced Research</i> , 2022, 37, 147-168.	9.5	52
42	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.	5.4	52
43	Multi-Criteria Evaluation and Benchmarking for Active Queue Management Methods: Open Issues, Challenges and Recommended Pathway Solutions. <i>International Journal of Information Technology and Decision Making</i> , 2019, 18, 1187-1242.	3.9	51
44	A new standardisation and selection framework for real-time image dehazing algorithms from multi-foggy scenes based on fuzzy Delphi and hybrid multi-criteria decision analysis methods. <i>Neural Computing and Applications</i> , 2021, 33, 1029-1054.	5.6	51
45	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.	4.1	51
46	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.	4.2	49
47	Multi-Criteria Evaluation and Benchmarking for Young Learners' English Language Mobile Applications in Terms of LSRW Skills. <i>IEEE Access</i> , 2019, 7, 146620-146651.	4.2	47
48	Hybrid artificial neural network and structural equation modelling techniques: a survey. <i>Complex & Intelligent Systems</i> , 2022, 8, 1781-1801.	6.5	41
49	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.	5.1	41
50	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.	5.3	40
51	Finger Vein Biometrics: Taxonomy Analysis, Open Challenges, Future Directions, and Recommended Solution for Decentralised Network Architectures. <i>IEEE Access</i> , 2020, 8, 9821-9845.	4.2	36
52	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.	3.9	35
53	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.	2.5	33
54	Multi-criteria decision-making for coronavirus disease 2019 applications: a theoretical analysis review. <i>Artificial Intelligence Review</i> , 2022, 55, 4979-5062.	15.7	33

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55	Development of IoT-based mhealth framework for various cases of heart disease patients. <i>Health and Technology</i> , 2021, 11, 1013-1033.	3.6	31
56	PSOâ€“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.	3.9	31
57	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.	4.2	30
58	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.	15.3	30
59	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.	4.9	28
60	On the multi-agent learning neural and Bayesian methods in skin detector and pornography classifier: An automated anti-pornography system. <i>Neurocomputing</i> , 2014, 131, 397-418.	5.9	27
61	Suitability of Using Symmetric Key to Secure Multimedia Data: An Overview. <i>Journal of Applied Sciences</i> , 2010, 10, 1656-1661.	0.3	27
62	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.	7.2	27
63	Based on neutrosophic fuzzy environment: a new development of FWZIC and FDOSM for benchmarking smart e-tourism applications. <i>Complex & Intelligent Systems</i> , 2022, 8, 3479-3503.	6.5	25
64	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.	3.9	23
65	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.	5.6	23
66	Image skin segmentation based on multi-agent learning Bayesian and neural network. <i>Engineering Applications of Artificial Intelligence</i> , 2014, 32, 136-150.	8.1	22
67	Mapping and Deep Analysis of Vehicle-to-Infrastructure Communication Systems: Coherent Taxonomy, Datasets, Evaluation and Performance Measurements, Motivations, Open Challenges, Recommendations, and Methodological Aspects. <i>IEEE Access</i> , 2019, 7, 126753-126772.	4.2	22
68	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.	4.0	22
69	Novel Roadside Unit Positioning Framework in the Context of the Vehicle-to-Infrastructure Communication System Based on AHPâ€“Entropy for Weighting and Bordaâ€“VIKOR for Uniform Ranking. <i>International Journal of Information Technology and Decision Making</i> , 2022, 21, 1233-1266.	3.9	21
70	Review of the Research Landscape of Multi-Criteria Evaluation and Benchmarking Processes for Many-Objective Optimization Methods: Coherent Taxonomy, Challenges and Recommended Solution. <i>International Journal of Information Technology and Decision Making</i> , 2020, 19, 1619-1693.	3.9	19
71	Challenges of Hidden Data in the Unused Area Two within Executable Files. <i>Journal of Computer Science</i> , 2009, 5, 890-897.	0.6	18
72	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.	5.3	18

#	ARTICLE	IF	CITATIONS
73	Investigate the Capability of Applying Hidden Data in Text File: An Overview. Journal of Applied Sciences, 2010, 10, 1916-1922.	0.3	15
74	The Landscape of Research on Skin Detectors: Coherent Taxonomy, Open Challenges, Motivations, Recommendations and Statistical Analysis, Future Directions. IEEE Access, 2019, 7, 106536-106575.	4.2	13
75	Novel Multiperspective Hiring Framework for the Selection of Software Programmer Applicants Based on AHP and Group TOPSIS Techniques. International Journal of Information Technology and Decision Making, 2020, 19, 775-847.	3.9	12
76	An Accurate Method to Obtain Bio-Metric Measurements for Three Dimensional Skull. Journal of Applied Sciences, 2010, 10, 145-150.	0.3	12
77	A review of research on medical image confidentiality related technology coherent taxonomy, motivations, open challenges and recommendations. Multimedia Tools and Applications, 2023, 82, 21867-21906.	3.9	9
78	A Landscape of Research on Bus Driver Behavior: Taxonomy, Open Challenges, Motivations, Recommendations, Limitations, and Pathways Solution in Future. IEEE Access, 2021, 9, 139896-139927.	4.2	6