

Abdu H Gumaei

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

3,156
citations

218381

26
h-index

189595

50
g-index

111
all docs

111
docs citations

111
times ranked

2385
citing authors

#	ARTICLE	IF	CITATIONS
1	A Hybrid Feature Extraction Method With Regularized Extreme Learning Machine for Brain Tumor Classification. IEEE Access, 2019, 7, 36266-36273.	2.6	244
2	TSDL: A Two-Stage Deep Learning Model for Efficient Network Intrusion Detection. IEEE Access, 2019, 7, 30373-30385.	2.6	220
3	A hybrid deep learning model for efficient intrusion detection in big data environment. Information Sciences, 2020, 513, 386-396.	4.0	217
4	Task Offloading and Resource Allocation for Mobile Edge Computing by Deep Reinforcement Learning Based on SARSA. IEEE Access, 2020, 8, 54074-54084.	2.6	185
5	Crow Search Algorithm: Theory, Recent Advances, and Applications. IEEE Access, 2020, 8, 173548-173565.	2.6	118
6	Blockchain and Random Subspace Learning-Based IDS for SDN-Enabled Industrial IoT Security. Sensors, 2019, 19, 3119.	2.1	107
7	A Hybrid Deep Learning Model for Human Activity Recognition Using Multimodal Body Sensing Data. IEEE Access, 2019, 7, 99152-99160.	2.6	99
8	A Smartphone-Enabled Fall Detection Framework for Elderly People in Connected Home Healthcare. IEEE Network, 2019, 33, 58-63.	4.9	97
9	Increasing the Trustworthiness in the Industrial IoT Networks Through a Reliable Cyberattack Detection Model. IEEE Transactions on Industrial Informatics, 2020, 16, 6154-6162.	7.2	89
10	Conventional to online education during COVID-19 pandemic: Do develop and underdeveloped nations cope alike. Children and Youth Services Review, 2020, 119, 105582.	1.0	82
11	CardioXNet: A Novel Lightweight Deep Learning Framework for Cardiovascular Disease Classification Using Heart Sound Recordings. IEEE Access, 2021, 9, 36955-36967.	2.6	75
12	Automatic Detection of Citrus Fruit and Leaves Diseases Using Deep Neural Network Model. IEEE Access, 2021, 9, 112942-112954.	2.6	67
13	Analyzing Renewable Energy Sources of a Developing Country for Sustainable Development: An Integrated Fuzzy Based-Decision Methodology. Processes, 2020, 8, 825.	1.3	58
14	An Ensemble Learning Approach for Accurate Energy Load Prediction in Residential Buildings. IEEE Access, 2019, 7, 48328-48338.	2.6	57
15	A Genetic-Based Extreme Gradient Boosting Model for Detecting Intrusions in Wireless Sensor Networks. Sensors, 2019, 19, 4383.	2.1	53
16	A hybrid multi criteria decision method for cloud service selection from Smart data. Future Generation Computer Systems, 2019, 93, 43-57.	4.9	46
17	An Improved Artificial Neural Network Model for Effective Diabetes Prediction. Complexity, 2021, 2021, 1-10.	0.9	46
18	Recent Advances in Deep Learning Techniques for Face Recognition. IEEE Access, 2021, 9, 99112-99142.	2.6	45

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19	Deep Learning and Blockchain with Edge Computing for 5G-Enabled Drone Identification and Flight Mode Detection. <i>IEEE Network</i> , 2021, 35, 94-100.	4.9	41
20	A robust cyberattack detection approach using optimal features of SCADA power systems in smart grids. <i>Applied Soft Computing Journal</i> , 2020, 96, 106658.	4.1	40
21	Anti-spoofing cloud-based multi-spectral biometric identification system for enterprise security and privacy-preservation. <i>Journal of Parallel and Distributed Computing</i> , 2019, 124, 27-40.	2.7	38
22	A Decision-Level Fusion Method for COVID-19 Patient Health Prediction. <i>Big Data Research</i> , 2022, 27, 100287.	2.6	35
23	Machine learning-based mathematical modelling for prediction of social media consumer behavior using big data analytics. <i>Journal of Big Data</i> , 2021, 8, .	6.9	34
24	Applying Deep Learning Methods on Time-Series Data for Forecasting COVID-19 in Egypt, Kuwait, and Saudi Arabia. <i>Complexity</i> , 2021, 2021, 1-13.	0.9	33
25	Numerical Investigation of the Time-Fractional Whitham-Broer-Kaup Equation Involving without Singular Kernel Operators. <i>Complexity</i> , 2021, 2021, 1-21.	0.9	31
26	DL-HAR: Deep Learning-Based Human Activity Recognition Framework for Edge Computing. <i>Computers, Materials and Continua</i> , 2020, 65, 1033-1057.	1.5	29
27	Performance prediction model for cloud service selection from smart data. <i>Future Generation Computer Systems</i> , 2018, 85, 97-106.	4.9	28
28	An Improved Multispectral Palmprint Recognition System Using Autoencoder with Regularized Extreme Learning Machine. <i>Computational Intelligence and Neuroscience</i> , 2018, 2018, 1-13.	1.1	28
29	An Effective Palmprint Recognition Approach for Visible and Multispectral Sensor Images. <i>Sensors</i> , 2018, 18, 1575.	2.1	26
30	Prioritization based Taxonomy of Cloud-based Outsource Software Development Challenges: Fuzzy AHP analysis. <i>Applied Soft Computing Journal</i> , 2020, 95, 106557.	4.1	26
31	An Efficient Cancer Classification Model Using Microarray and High-Dimensional Data. <i>Computational Intelligence and Neuroscience</i> , 2021, 2021, 1-14.	1.1	25
32	Identification and Prioritization of Cloud Based Global Software Development Best Practices. <i>IEEE Access</i> , 2020, 8, 191242-191262.	2.6	22
33	Medical Diagnosis and Life Span of Sufferer Using Interval Valued Complex Fuzzy Relations. <i>IEEE Access</i> , 2021, 9, 93764-93780.	2.6	22
34	A lightweight and cost effective edge intelligence architecture based on containerization technology. <i>World Wide Web</i> , 2020, 23, 1341-1360.	2.7	21
35	Requirements Change Management Challenges of Global Software Development: An Empirical Investigation. <i>IEEE Access</i> , 2020, 8, 203070-203085.	2.6	21
36	Identification and Prioritization of Agile Requirements Change Management Success Factors in the Domain of Global Software Development. <i>IEEE Access</i> , 2020, 8, 44714-44726.	2.6	21

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37	Spherical Fuzzy Sets-Based Cosine Similarity and Information Measures for Pattern Recognition and Medical Diagnosis. <i>IEEE Access</i> , 2021, 9, 25835-25842.	2.6	21
38	Feature selection with ensemble learning for prostate cancer diagnosis from microarray gene expression. <i>Health Informatics Journal</i> , 2021, 27, 146045822198940.	1.1	21
39	An Effective Bio-Signal-Based Driver Behavior Monitoring System Using a Generalized Deep Learning Approach. <i>IEEE Access</i> , 2020, 8, 135037-135049.	2.6	20
40	Multicriteria Based Decision Making of DevOps Data Quality Assessment Challenges Using Fuzzy TOPSIS. <i>IEEE Access</i> , 2020, 8, 46958-46980.	2.6	20
41	Complex pythagorean fuzzy aggregation operators based on confidence levels and their applications. <i>Mathematical Biosciences and Engineering</i> , 2021, 19, 1078-1107.	1.0	20
42	An Effective and Lightweight Deep Electrocardiography Arrhythmia Recognition Model Using Novel Special and Native Structural Regularization Techniques on Cardiac Signal. <i>Journal of Healthcare Engineering</i> , 2022, 2022, 1-18.	1.1	20
43	A Comparative Study of Machine Learning Classifiers for Network Intrusion Detection. <i>Lecture Notes in Computer Science</i> , 2019, , 75-86.	1.0	19
44	Prioritization Based Taxonomy of DevOps Security Challenges Using PROMETHEE. <i>IEEE Access</i> , 2020, 8, 105426-105446.	2.6	19
45	A deep learning-based driver distraction identification framework over edge cloud. <i>Neural Computing and Applications</i> , 0, , 1.	3.2	19
46	Identification and prioritization of DevOps success factors using fuzzy-AHP approach. <i>Soft Computing</i> , 2023, 27, 1907-1931.	2.1	19
47	A Systematic Study to Improve the Requirements Engineering Process in the Domain of Global Software Development. <i>IEEE Access</i> , 2020, 8, 53374-53393.	2.6	18
48	Cybersecurity against the Loopholes in Industrial Control Systems Using Interval-Valued Complex Intuitionistic Fuzzy Relations. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7668.	1.3	18
49	GPS Trajectory Completion Using End-to-End Bidirectional Convolutional Recurrent Encoder-Decoder Architecture with Attention Mechanism. <i>Sensors</i> , 2020, 20, 5143.	2.1	17
50	Interdependency of Complex Fuzzy Neighborhood Operators and Derived Complex Fuzzy Coverings. <i>IEEE Access</i> , 2021, 9, 73506-73521.	2.6	17
51	Analyzing the Public Opinion as a Guide for Renewable-Energy Status in Malaysia: A Case Study. <i>IEEE Transactions on Engineering Management</i> , 2023, 70, 371-385.	2.4	17
52	Exploration of DevOps testing process capabilities: An ISM and fuzzy TOPSIS analysis. <i>Applied Soft Computing Journal</i> , 2022, 116, 108377.	4.1	17
53	A Novel Efficient Certificateless Signature Scheme for the Prevention of Content Poisoning Attack in Named Data Networking-Based Internet of Things. <i>IEEE Access</i> , 2021, 9, 40198-40215.	2.6	16
54	A Secure NDN Framework for Internet of Things Enabled Healthcare. <i>Computers, Materials and Continua</i> , 2021, 67, 223-240.	1.5	16

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55	Breast segmentation using k-means algorithm with a mixture of gamma distributions. , 2012, , .		15
56	Multicriteria Decision Making Taxonomy of Cloud-Based Global Software Development Motivators. IEEE Access, 2020, 8, 185290-185310.	2.6	15
57	A Hybrid Multi-Criteria Approach for Evaluation and Selection of Sustainable Suppliers in the Avionics Industry of Pakistan. Sustainability, 2020, 12, 4744.	1.6	15
58	A Decision-Making Framework Using q-Rung Orthopair Probabilistic Hesitant Fuzzy Rough Aggregation Information for the Drug Selection to Treat COVID-19. Complexity, 2022, 2022, 1-37.	0.9	14
59	Detection and Classification of Psychopathic Personality Trait from Social Media Text Using Deep Learning Model. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-10.	0.7	13
60	Designing a Healthcare-Enabled Software-Defined Wireless Body Area Network Architecture for Secure Medical Data and Efficient Diagnosis. Journal of Healthcare Engineering, 2022, 2022, 1-19.	1.1	13
61	Prioritization Based Taxonomy of DevOps Challenges Using Fuzzy AHP Analysis. IEEE Access, 2020, 8, 202487-202507.	2.6	12
62	Readiness model for DevOps implementation in software organizations. Journal of Software: Evolution and Process, 2021, 33, e2323.	1.2	12
63	On Three Types of Soft Rough Covering-Based Fuzzy Sets. Journal of Mathematics, 2021, 2021, 1-9.	0.5	12
64	Prediction of COVID-19 Confirmed Cases Using Gradient Boosting Regression Method. Computers, Materials and Continua, 2020, 66, 315-329.	1.5	12
65	Gender Identification and Classification of Drosophila melanogaster Flies Using Machine Learning Techniques. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-9.	0.7	12
66	Arabic Document Classification: Performance Investigation of Preprocessing and Representation Techniques. Mathematical Problems in Engineering, 2022, 2022, 1-16.	0.6	12
67	FallDeF5: A Fall Detection Framework Using 5G-Based Deep Gated Recurrent Unit Networks. IEEE Access, 2021, 9, 94299-94308.	2.6	11
68	Falknerâ€™Skan Equation with Heat Transfer: A New Stochastic Numerical Approach. Mathematical Problems in Engineering, 2021, 2021, 1-17.	0.6	11
69	A Provably Secure Lightweight Subtree-Based Short Signature Scheme With Fuzzy User Data Sharing for Human-Centered IoT. IEEE Access, 2021, 9, 3649-3659.	2.6	11
70	q-Rung Orthopair Fuzzy Rough Einstein Aggregation Information-Based EDAS Method: Applications in Robotic Agrifarming. Computational Intelligence and Neuroscience, 2021, 2021, 1-27.	1.1	11
71	Levenbergâ€™Marquardt Backpropagation for Numerical Treatment of Micropolar Flow in a Porous Channel with Mass Injection. Complexity, 2021, 2021, 1-12.	0.9	11
72	A novel approach for Braille images segmentation. , 2012, , .		10

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73	Organization Type and Size Based Identification of Requirements Change Management Challenges in Global Software Development. <i>IEEE Access</i> , 2020, 8, 94089-94111.	2.6	10
74	Group Generalized q-Rung Orthopair Fuzzy Soft Sets: New Aggregation Operators and Their Applications. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-16.	0.6	10
75	A fuzzy analytical hierarchy process to prioritize the success factors of requirement change management in global software development. <i>Journal of Software: Evolution and Process</i> , 2021, 33, e2292.	1.2	9
76	A predictive intelligence approach to classify brain-computer interface based eye state for smart living. <i>Applied Soft Computing Journal</i> , 2021, 108, 107453.	4.1	9
77	Analysis of Communication and Network Securities Using the Concepts of Complex Picture Fuzzy Relations. <i>Computational Intelligence and Neuroscience</i> , 2021, 2021, 1-20.	1.1	9
78	An Effective Approach for Rumor Detection of Arabic Tweets Using eXtreme Gradient Boosting Method. <i>ACM Transactions on Asian and Low-Resource Language Information Processing</i> , 2022, 21, 1-16.	1.3	9
79	Connectivity Indices of Intuitionistic Fuzzy Graphs and Their Applications in Internet Routing and Transport Network Flow. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-16.	0.6	8
80	Fractional Analysis of MHD Boundary Layer Flow over a Stretching Sheet in Porous Medium: A New Stochastic Method. <i>Journal of Function Spaces</i> , 2021, 2021, 1-19.	0.4	8
81	Privacy Preservation of User Identity in Contact Tracing for COVID-19-Like Pandemics Using Edge Computing. <i>IEEE Access</i> , 2021, 9, 125065-125079.	2.6	7
82	A Deep Learning-Based Recognition Approach for the Conversion of Multilingual Braille Images. <i>Computers, Materials and Continua</i> , 2021, 67, 3847-3864.	1.5	7
83	Data on performance prediction for cloud service selection. <i>Data in Brief</i> , 2018, 20, 1039-1043.	0.5	6
84	A robust framework for cloud-based software development outsourcing factors using analytical hierarchy process. <i>Journal of Software: Evolution and Process</i> , 2021, 33, e2275.	1.2	6
85	Prioritization of global software requirements' engineering barriers: An analytical hierarchy process. <i>IET Software</i> , 2021, 15, 277-291.	1.5	6
86	Evaluation of the Economic Relationships on the Basis of Statistical Decision-Making in Complex Neutrosophic Environment. <i>Complexity</i> , 2021, 2021, 1-18.	0.9	6
87	An Efficient Image Denoising Method for Wireless Multimedia Sensor Networks Based on DT-CWT. <i>International Journal of Distributed Sensor Networks</i> , 2015, 11, 632568.	1.3	6
88	Some New Coupled Fixed-Point Findings Depending on Another Function in Fuzzy Cone Metric Spaces with Application. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-21.	0.6	5
89	An Adaptive Energy Optimization Mechanism for Decentralized Smart Healthcare Applications. , 2021, , .		4
90	Certain Notions of Picture Fuzzy Information with Applications. <i>Journal of Mathematics</i> , 2021, 2021, 1-8.	0.5	4

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91	Barriers of managing cloud outsource software development projects: a multivocal study. <i>Multimedia Tools and Applications</i> , 0, , 1.	2.6	4
92	Order- α \mathcal{CQ} Divergence Measures and Aggregation Operators Based on Complex q-Rung Orthopair Normal Fuzzy Sets and Their Application to Multi-Attribute Decision-Making. <i>International Journal of Computational Intelligence Systems</i> , 2021, 14, 1895.	1.6	4
93	A New Approach to Fuzzy Differential Equations Using Weakly-Compatible Self-Mappings in Fuzzy Metric Spaces. <i>Journal of Function Spaces</i> , 2021, 2021, 1-13.	0.4	4
94	A deep learning-based edge-fog-cloud framework for driving behavior management. <i>Computers and Electrical Engineering</i> , 2021, 96, 107573.	3.0	4
95	An Integrated Switchable EM Absorber and Beam Switchable Radiator. <i>IEEE Access</i> , 2020, 8, 193050-193059.	2.6	3
96	Rational Type Compatible Single-Valued Mappings via Unique Common Fixed Point Findings in Complex-Valued b-Metric Spaces with an Application. <i>Journal of Function Spaces</i> , 2021, 2021, 1-14.	0.4	3
97	New Operators of Cubic Picture Fuzzy Information with Applications. <i>Journal of Mathematics</i> , 2021, 2021, 1-16.	0.5	3
98	Analysis of domination in the environment of picture fuzzy information. <i>Granular Computing</i> , 2022, 7, 801-812.	4.4	3
99	An Automatic Nuclei Cells Counting Approach Using Effective Image Processing Methods. , 2019, , .		2
100	A multivocal study to improve the implementation of global requirements change management process: A clientâ€ vendor prospective. <i>Journal of Software: Evolution and Process</i> , 2020, 32, e2252.	1.2	2
101	An Approach of Lebesgue Integral in Fuzzy Cone Metric Spaces via Unique Coupled Fixed Point Theorems. <i>Journal of Function Spaces</i> , 2021, 2021, 1-14.	0.4	2
102	Fixed Point of Rational Contractions and Its Application for Secure Dynamic Routing in Wireless Sensor Networks. <i>Security and Communication Networks</i> , 2021, 2021, 1-10.	1.0	2
103	Novel Decision-Making Techniques in Tripolar Fuzzy Environment with Application: A Case Study of ERP Systems. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-23.	1.1	2
104	Prioritizing Management Success Factors in Offshore Software Development. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 10163-10184.	1.7	1
105	Intelligent Computer-Aided Prostate Cancer Diagnosis Systems: State-of-the-Art and Future Directions. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-17.	0.6	1
106	Some Rational Coupled Fuzzy Cone Contraction Theorems in Fuzzy Cone Metric Spaces with an Application. <i>Journal of Mathematics</i> , 2021, 2021, 1-21.	0.5	1
107	Some Coincidence and Common Fixed Point Results in Fuzzy Metric Space with an Application to Differential Equations. <i>Journal of Function Spaces</i> , 2021, 2021, 1-15.	0.4	1
108	On Some Types of Covering-Based $\hat{\alpha}, \ast, T$ -Fuzzy Rough Sets and Their Applications. <i>Journal of Mathematics</i> , 2021, 2021, 1-18.	0.5	1

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109	Key Quality Attributes for Computational and Sustainable Higher Education Strategy Implementation in Saudi Arabia. Sustainability, 2020, 12, 1881.	1.6	0
110	A Real-time e-Health Data Collection System from On-board Vehicle Drivers in Smart City. , 2020, , .		0