

# Abdu H Gumaei

## List of Publications by Citations

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107  
papers

1,319  
citations

18  
h-index

32  
g-index

111  
ext. papers

2,165  
ext. citations

3.1  
avg, IF

5.66  
L-index

#	Paper	IF	Citations
107	. <i>IEEE Access</i> , <b>2019</b> , 7, 30373-30385	3.5	108
106	A Hybrid Feature Extraction Method With Regularized Extreme Learning Machine for Brain Tumor Classification. <i>IEEE Access</i> , <b>2019</b> , 7, 36266-36273	3.5	96
105	A hybrid deep learning model for efficient intrusion detection in big data environment. <i>Information Sciences</i> , <b>2020</b> , 513, 386-396	7.7	92
104	Task Offloading and Resource Allocation for Mobile Edge Computing by Deep Reinforcement Learning Based on SARSA. <i>IEEE Access</i> , <b>2020</b> , 8, 54074-54084	3.5	75
103	A Smartphone-Enabled Fall Detection Framework for Elderly People in Connected Home Healthcare. <i>IEEE Network</i> , <b>2019</b> , 33, 58-63	11.4	68
102	Blockchain and Random Subspace Learning-Based IDS for SDN-Enabled Industrial IoT Security. <i>Sensors</i> , <b>2019</b> , 19,	3.8	65
101	A Hybrid Deep Learning Model for Human Activity Recognition Using Multimodal Body Sensing Data. <i>IEEE Access</i> , <b>2019</b> , 7, 99152-99160	3.5	50
100	Conventional to online education during COVID-19 pandemic: Do develop and underdeveloped nations cope alike. <i>Children and Youth Services Review</i> , <b>2020</b> , 119, 105582	2	41
99	Crow Search Algorithm: Theory, Recent Advances, and Applications. <i>IEEE Access</i> , <b>2020</b> , 8, 173548-173565	3.5	41
98	Increasing the Trustworthiness in the Industrial IoT Networks Through a Reliable Cyberattack Detection Model. <i>IEEE Transactions on Industrial Informatics</i> , <b>2020</b> , 16, 6154-6162	11.9	38
97	An Ensemble Learning Approach for Accurate Energy Load Prediction in Residential Buildings. <i>IEEE Access</i> , <b>2019</b> , 7, 48328-48338	3.5	30
96	A Genetic-Based Extreme Gradient Boosting Model for Detecting Intrusions in Wireless Sensor Networks. <i>Sensors</i> , <b>2019</b> , 19,	3.8	29
95	A hybrid multi criteria decision method for cloud service selection from Smart data. <i>Future Generation Computer Systems</i> , <b>2019</b> , 93, 43-57	7.5	28
94	Analyzing Renewable Energy Sources of a Developing Country for Sustainable Development: An Integrated Fuzzy Based-Decision Methodology. <i>Processes</i> , <b>2020</b> , 8, 825	2.9	27
93	Anti-spoofing cloud-based multi-spectral biometric identification system for enterprise security and privacy-preservation. <i>Journal of Parallel and Distributed Computing</i> , <b>2019</b> , 124, 27-40	4.4	23
92	CardioXNet: A Novel Lightweight Deep Learning Framework for Cardiovascular Disease Classification Using Heart Sound Recordings. <i>IEEE Access</i> , <b>2021</b> , 9, 36955-36967	3.5	19
91	An Effective Palmprint Recognition Approach for Visible and Multispectral Sensor Images. <i>Sensors</i> , <b>2018</b> , 18,	3.8	19

90	An Improved Multispectral Palmprint Recognition System Using Autoencoder with Regularized Extreme Learning Machine. <i>Computational Intelligence and Neuroscience</i> , <b>2018</b> , 2018, 8041609	3	18
89	Performance prediction model for cloud service selection from smart data. <i>Future Generation Computer Systems</i> , <b>2018</b> , 85, 97-106	7.5	16
88	An Effective Bio-Signal-Based Driver Behavior Monitoring System Using a Generalized Deep Learning Approach. <i>IEEE Access</i> , <b>2020</b> , 8, 135037-135049	3.5	16
87	A robust cyberattack detection approach using optimal features of SCADA power systems in smart grids. <i>Applied Soft Computing Journal</i> , <b>2020</b> , 96, 106658	7.5	15
86	Applying Deep Learning Methods on Time-Series Data for Forecasting COVID-19 in Egypt, Kuwait, and Saudi Arabia. <i>Complexity</i> , <b>2021</b> , 2021, 1-13	1.6	15
85	. <i>IEEE Network</i> , <b>2021</b> , 35, 94-100	11.4	15
84	Numerical Investigation of the Time-Fractional Whitham-Broer-Kaup Equation Involving without Singular Kernel Operators. <i>Complexity</i> , <b>2021</b> , 2021, 1-21	1.6	14
83	DL-HAR: Deep Learning-Based Human Activity Recognition Framework for Edge Computing. <i>Computers, Materials and Continua</i> , <b>2020</b> , 65, 1033-1057	3.9	13
82	Medical Diagnosis and Life Span of Sufferer Using Interval Valued Complex Fuzzy Relations. <i>IEEE Access</i> , <b>2021</b> , 9, 93764-93780	3.5	12
81	A lightweight and cost effective edge intelligence architecture based on containerization technology. <i>World Wide Web</i> , <b>2020</b> , 23, 1341-1360	2.9	11
80	Cybersecurity against the Loopholes in Industrial Control Systems Using Interval-Valued Complex Intuitionistic Fuzzy Relations. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 7668	2.6	10
79	Multicriteria Based Decision Making of DevOps Data Quality Assessment Challenges Using Fuzzy TOPSIS. <i>IEEE Access</i> , <b>2020</b> , 8, 46958-46980	3.5	9
78	A Hybrid Multi-Criteria Approach for Evaluation and Selection of Sustainable Suppliers in the Avionics Industry of Pakistan. <i>Sustainability</i> , <b>2020</b> , 12, 4744	3.6	9
77	. <i>IEEE Access</i> , <b>2020</b> , 8, 44714-44726	3.5	9
76	. <i>IEEE Access</i> , <b>2020</b> , 8, 191242-191262	3.5	9
75	Spherical Fuzzy Sets-Based Cosine Similarity and Information Measures for Pattern Recognition and Medical Diagnosis. <i>IEEE Access</i> , <b>2021</b> , 9, 25835-25842	3.5	9
74	. <i>IEEE Transactions on Engineering Management</i> , <b>2021</b> , 1-15	2.6	9
73	Requirements Change Management Challenges of Global Software Development: An Empirical Investigation. <i>IEEE Access</i> , <b>2020</b> , 8, 203070-203085	3.5	8

72	An Improved Artificial Neural Network Model for Effective Diabetes Prediction. <i>Complexity</i> , <b>2021</b> , 2021, 1-10	1.6	8
71	Automatic Detection of Citrus Fruit and Leaves Diseases Using Deep Neural Network Model. <i>IEEE Access</i> , <b>2021</b> , 9, 112942-112954	3.5	8
70	On Three Types of Soft Rough Covering-Based Fuzzy Sets. <i>Journal of Mathematics</i> , <b>2021</b> , 2021, 1-9	1.2	8
69	Organization Type and Size Based Identification of Requirements Change Management Challenges in Global Software Development. <i>IEEE Access</i> , <b>2020</b> , 8, 94089-94111	3.5	7
68	. <i>IEEE Access</i> , <b>2020</b> , 8, 53374-53393	3.5	7
67	Breast segmentation using k-means algorithm with a mixture of gamma distributions <b>2012</b> ,		7
66	Prioritization Based Taxonomy of DevOps Security Challenges Using PROMETHEE. <i>IEEE Access</i> , <b>2020</b> , 8, 105426-105446	3.5	7
65	Multicriteria Decision Making Taxonomy of Cloud-Based Global Software Development Motivators. <i>IEEE Access</i> , <b>2020</b> , 8, 185290-185310	3.5	7
64	A deep learning-based driver distraction identification framework over edge cloud. <i>Neural Computing and Applications</i> , <b>2020</b> , 1	4.8	7
63	Detection and Classification of Psychopathic Personality Trait from Social Media Text Using Deep Learning Model. <i>Computational and Mathematical Methods in Medicine</i> , <b>2021</b> , 2021, 1-10	2.8	7
62	A Secure NDN Framework for Internet of Things Enabled Healthcare. <i>Computers, Materials and Continua</i> , <b>2021</b> , 67, 223-240	3.9	7
61	A novel approach for Braille images segmentation <b>2012</b> ,		6
60	Prioritization based Taxonomy of Cloud-based Outsource Software Development Challenges: Fuzzy AHP analysis. <i>Applied Soft Computing Journal</i> , <b>2020</b> , 95, 106557	7.5	6
59	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> , <b>2021</b> , 9, 40198-40215	3.5	6
58	Recent Advances in Deep Learning Techniques for Face Recognition. <i>IEEE Access</i> , <b>2021</b> , 9, 99112-99142	3.5	6
57	Feature selection with ensemble learning for prostate cancer diagnosis from microarray gene expression. <i>Health Informatics Journal</i> , <b>2021</b> , 27, 1460458221989402	3	6
56	A Provably Secure Lightweight Subtree-Based Short Signature Scheme With Fuzzy User Data Sharing for Human-Centered IoT. <i>IEEE Access</i> , <b>2021</b> , 9, 3649-3659	3.5	6
55	An Efficient Cancer Classification Model Using Microarray and High-Dimensional Data.. <i>Computational Intelligence and Neuroscience</i> , <b>2021</b> , 2021, 7231126	3	6

54	Identification and prioritization of DevOps success factors using fuzzy-AHP approach. <i>Soft Computing</i> , <b>2020</b> , 1	3.5	5
53	A Comparative Study of Machine Learning Classifiers for Network Intrusion Detection. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 75-86	0.9	5
52	Designing a Healthcare-Enabled Software-Defined Wireless Body Area Network Architecture for Secure Medical Data and Efficient Diagnosis. <i>Journal of Healthcare Engineering</i> , <b>2022</b> , 2022, 1-19	3.7	5
51	Complex pythagorean fuzzy aggregation operators based on confidence levels and their applications.. <i>Mathematical Biosciences and Engineering</i> , <b>2022</b> , 19, 1078-1107	2.1	5
50	GPS Trajectory Completion Using End-to-End Bidirectional Convolutional Recurrent Encoder-Decoder Architecture with Attention Mechanism. <i>Sensors</i> , <b>2020</b> , 20,	3.8	5
49	Some New Coupled Fixed-Point Findings Depending on Another Function in Fuzzy Cone Metric Spaces with Application. <i>Mathematical Problems in Engineering</i> , <b>2021</b> , 2021, 1-21	1.1	5
48	Falkner-Bkan Equation with Heat Transfer: A New Stochastic Numerical Approach. <i>Mathematical Problems in Engineering</i> , <b>2021</b> , 2021, 1-17	1.1	5
47	Gender Identification and Classification of Flies Using Machine Learning Techniques.. <i>Computational and Mathematical Methods in Medicine</i> , <b>2022</b> , 2022, 4593330	2.8	4
46	Exploration of DevOps testing process capabilities: An ISM and fuzzy TOPSIS analysis. <i>Applied Soft Computing Journal</i> , <b>2022</b> , 116, 108377	7.5	4
45	Prioritization Based Taxonomy of DevOps Challenges Using Fuzzy AHP Analysis. <i>IEEE Access</i> , <b>2020</b> , 8, 202487-202507	3.5	4
44	Evaluation of the Economic Relationships on the Basis of Statistical Decision-Making in Complex Neutrosophic Environment. <i>Complexity</i> , <b>2021</b> , 2021, 1-18	1.6	4
43	Interdependency of Complex Fuzzy Neighborhood Operators and Derived Complex Fuzzy Coverings. <i>IEEE Access</i> , <b>2021</b> , 9, 73506-73521	3.5	4
42	Data on performance prediction for cloud service selection. <i>Data in Brief</i> , <b>2018</b> , 20, 1039-1043	1.2	4
41	A predictive intelligence approach to classify brain-computer interface based eye state for smart living. <i>Applied Soft Computing Journal</i> , <b>2021</b> , 108, 107453	7.5	4
40	Levenberg-Marquardt Backpropagation for Numerical Treatment of Micropolar Flow in a Porous Channel with Mass Injection. <i>Complexity</i> , <b>2021</b> , 2021, 1-12	1.6	4
39	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> , <b>2022</b> , 2022, 3408501	3.7	4
38	A Decision-Making Framework Using q-Rung Orthopair Probabilistic Hesitant Fuzzy Rough Aggregation Information for the Drug Selection to Treat COVID-19. <i>Complexity</i> , <b>2022</b> , 2022, 1-37	1.6	3
37	An Efficient Image Denoising Method for Wireless Multimedia Sensor Networks Based on DT-CWT. <i>International Journal of Distributed Sensor Networks</i> , <b>2015</b> , 11, 632568	1.7	3

36	A Decision-Level Fusion Method for COVID-19 Patient Health Prediction. <i>Big Data Research</i> , <b>2021</b> , 1002837	3
35	A New Approach to Fuzzy Differential Equations Using Weakly-Compatible Self-Mappings in Fuzzy Metric Spaces. <i>Journal of Function Spaces</i> , <b>2021</b> , 2021, 1-13	0.8 3
34	Machine learning-based mathematical modelling for prediction of social media consumer behavior using big data analytics. <i>Journal of Big Data</i> , <b>2021</b> , 8,	11.7 3
33	Readiness model for DevOps implementation in software organizations. <i>Journal of Software: Evolution and Process</i> , <b>2021</b> , 33, e2323	1 3
32	Connectivity Indices of Intuitionistic Fuzzy Graphs and Their Applications in Internet Routing and Transport Network Flow. <i>Mathematical Problems in Engineering</i> , <b>2021</b> , 2021, 1-16	1.1 3
31	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> , <b>2022</b> , 21, 1-16	1.1 2
30	Fractional Analysis of MHD Boundary Layer Flow over a Stretching Sheet in Porous Medium: A New Stochastic Method. <i>Journal of Function Spaces</i> , <b>2021</b> , 2021, 1-19	0.8 2
29	Prediction of COVID-19 Confirmed Cases Using Gradient Boosting Regression Method. <i>Computers, Materials and Continua</i> , <b>2020</b> , 66, 315-329	3.9 2
28	Analysis of Communication and Network Securities Using the Concepts of Complex Picture Fuzzy Relations. <i>Computational Intelligence and Neuroscience</i> , <b>2021</b> , 2021, 9427492	3 2
27	An Integrated Switchable EM Absorber and Beam Switchable Radiator. <i>IEEE Access</i> , <b>2020</b> , 8, 193050-193059	3.5 2
26	Prioritization of global software requirementsXengineering barriers: An analytical hierarchy process. <i>IET Software</i> , <b>2021</b> , 15, 277-291	1 2
25	An Adaptive Energy Optimization Mechanism for Decentralized Smart Healthcare Applications <b>2021</b> ,	2
24	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> , <b>2021</b> , 2021, 1-14	0.8 2
23	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> , <b>2021</b> , 33, e2292	1 2
22	FallDeF5: A Fall Detection Framework Using 5G-Based Deep Gated Recurrent Unit Networks. <i>IEEE Access</i> , <b>2021</b> , 9, 94299-94308	3.5 2
21	A Deep Learning-Based Recognition Approach for the Conversion of Multilingual Braille Images. <i>Computers, Materials and Continua</i> , <b>2021</b> , 67, 3847-3864	3.9 2
20	Group Generalized q-Rung Orthopair Fuzzy Soft Sets: New Aggregation Operators and Their Applications. <i>Mathematical Problems in Engineering</i> , <b>2021</b> , 2021, 1-16	1.1 2
19	Prioritizing Management Success Factors in Offshore Software Development. <i>Arabian Journal for Science and Engineering</i> , <b>2020</b> , 45, 10163-10184	2.5 1

18	A multivocal study to improve the implementation of global requirements change management process: A client-vendor prospective. <i>Journal of Software: Evolution and Process</i> , <b>2020</b> , 32, e2252	1	1
17	Fixed Point of Rational Contractions and Its Application for Secure Dynamic Routing in Wireless Sensor Networks. <i>Security and Communication Networks</i> , <b>2021</b> , 2021, 1-10	1.9	1
16	-Rung Orthopair Fuzzy Rough Einstein Aggregation Information-Based EDAS Method: Applications in Robotic Agrifarming. <i>Computational Intelligence and Neuroscience</i> , <b>2021</b> , 2021, 5520264	3	1
15	Some Coincidence and Common Fixed Point Results in Fuzzy Metric Space with an Application to Differential Equations. <i>Journal of Function Spaces</i> , <b>2021</b> , 2021, 1-15	0.8	1
14	A deep learning-based edge-fog-cloud framework for driving behavior management. <i>Computers and Electrical Engineering</i> , <b>2021</b> , 96, 107573	4.3	1
13	New Operators of Cubic Picture Fuzzy Information with Applications. <i>Journal of Mathematics</i> , <b>2021</b> , 2021, 1-16	1.2	1
12	A robust framework for cloud-based software development outsourcing factors using analytical hierarchy process. <i>Journal of Software: Evolution and Process</i> , <b>2021</b> , 33, e2275	1	1
11	Privacy Preservation of User Identity in Contact Tracing for COVID-19-Like Pandemics Using Edge Computing. <i>IEEE Access</i> , <b>2021</b> , 9, 125065-125079	3.5	1
10	Intelligent Computer-Aided Prostate Cancer Diagnosis Systems: State-of-the-Art and Future Directions. <i>Mathematical Problems in Engineering</i> , <b>2021</b> , 2021, 1-17	1.1	1
9	An Approach of Lebesgue Integral in Fuzzy Cone Metric Spaces via Unique Coupled Fixed Point Theorems. <i>Journal of Function Spaces</i> , <b>2021</b> , 2021, 1-14	0.8	1
8	Barriers of managing cloud outsource software development projects: a multivocal study. <i>Multimedia Tools and Applications</i> , 1	2.5	1
7	Arabic Document Classification: Performance Investigation of Preprocessing and Representation Techniques. <i>Mathematical Problems in Engineering</i> , <b>2022</b> , 2022, 1-16	1.1	1
6	Certain Notions of Picture Fuzzy Information with Applications. <i>Journal of Mathematics</i> , <b>2021</b> , 2021, 1-8	1.2	0
5	Key Quality Attributes for Computational and Sustainable Higher Education Strategy Implementation in Saudi Arabia. <i>Sustainability</i> , <b>2020</b> , 12, 1881	3.6	
4	Novel Decision-Making Techniques in Tripolar Fuzzy Environment with Application: A Case Study of ERP Systems.. <i>Computational Intelligence and Neuroscience</i> , <b>2022</b> , 2022, 4488576	3	
3	Analysis of domination in the environment of picture fuzzy information. <i>Granular Computing</i> , 1	5.4	
2	On Some Types of Covering-Based I , T -Fuzzy Rough Sets and Their Applications. <i>Journal of Mathematics</i> , <b>2021</b> , 2021, 1-18	1.2	
1	Some Rational Coupled Fuzzy Cone Contraction Theorems in Fuzzy Cone Metric Spaces with an Application. <i>Journal of Mathematics</i> , <b>2021</b> , 2021, 1-21	1.2	

