

Muhammad Shafiq

List of Publications by Year in descending order

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Version: 2024-02-01

121
papers

2,660
citations

201674

27
h-index

233421

45
g-index

122
all docs

122
docs citations

122
times ranked

2194
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigating acceptance of telemedicine services through an extended technology acceptance model (TAM). <i>Technology in Society</i> , 2020, 60, 101212.	9.4	368
2	A Secure Data Sharing Platform Using Blockchain and Interplanetary File System. <i>Sustainability</i> , 2019, 11, 7054.	3.2	152
3	GIS based landslide susceptibility mapping of northern areas of Pakistan, a case study of Shigar and Shyok Basins. <i>Geomatics, Natural Hazards and Risk</i> , 2017, 8, 348-366.	4.3	80
4	Stealth technology: Methods and composite materialsâ€”A review. <i>Polymer Composites</i> , 2019, 40, 4457-4472.	4.6	74
5	Blockchain Based Sustainable Local Energy Trading Considering Home Energy Management and Demurrage Mechanism. <i>Sustainability</i> , 2020, 12, 3385.	3.2	71
6	Unmanned Aerial Vehicles (UAV) in Precision Agriculture: Applications and Challenges. <i>Energies</i> , 2022, 15, 217.	3.1	69
7	Effect of Project Management in Requirements Engineering and Requirements Change Management Processes for Global Software Development. <i>IEEE Access</i> , 2018, 6, 25747-25763.	4.2	62
8	Electricity Theft Detection Using Supervised Learning Techniques on Smart Meter Data. <i>Sustainability</i> , 2020, 12, 8023.	3.2	61
9	LSTM and Bat-Based RUSBoost Approach for Electricity Theft Detection. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4378.	2.5	61
10	Improving the Quality of Software Development Process by Introducing a New Methodologyâ€”AZ-Model. <i>IEEE Access</i> , 2018, 6, 4811-4823.	4.2	59
11	Blockchain Based Data and Energy Trading in Internet of Electric Vehicles. <i>IEEE Access</i> , 2021, 9, 7000-7020.	4.2	57
12	A provably secure and efficient authenticated key agreement scheme for Energy Internet based Vehicle-to-Grid technology framework. <i>IEEE Transactions on Industry Applications</i> , 2020, , 1-1.	4.9	54
13	Detection of Distributed Denial of Service (DDoS) Attacks in IOT Based Monitoring System of Banking Sector Using Machine Learning Models. <i>Sustainability</i> , 2022, 14, 8374.	3.2	49
14	Hybrid Fuzzy Logic Scheme for Efficient Channel Utilization in Cognitive Radio Networks. <i>IEEE Access</i> , 2019, 7, 24463-24476.	4.2	48
15	Remote Pain Monitoring Using Fog Computing for e-Healthcare: An Efficient Architecture. <i>Sensors</i> , 2020, 20, 6574.	3.8	46
16	Catastrophic factors involved in road accidents: Underlying causes and descriptive analysis. <i>PLoS ONE</i> , 2019, 14, e0223473.	2.5	45
17	Secure Service Provisioning Scheme for Lightweight IoT Devices With a Fair Payment System and an Incentive Mechanism Based on Blockchain. <i>IEEE Access</i> , 2020, 8, 1048-1061.	4.2	44
18	Exploiting Nature-Inspired-Based Artificial Intelligence Techniques for Coordinated Day-Ahead Scheduling to Efficiently Manage Energy in Smart Grid. <i>IEEE Access</i> , 2019, 7, 140102-140125.	4.2	42

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19	High Data Rate Discrete Wavelet Transform-Based PLC-VLC Design for 5G Communication Systems. IEEE Access, 2018, 6, 52490-52499.	4.2	38
20	Efficient Algorithms for E-Healthcare to Solve Multiobject Fuse Detection Problem. Journal of Healthcare Engineering, 2021, 2021, 1-16.	1.9	38
21	An extensive study to assess the sustainability drivers of production performances using a resource-based view and contingency analysis. Journal of Cleaner Production, 2018, 204, 744-752.	9.3	36
22	Implementation of a LoRaWAN Based Smart Agriculture Decision Support System for Optimum Crop Yield. Sustainability, 2022, 14, 827.	3.2	36
23	Blockchain-Based Energy Trading and Load Balancing Using Contract Theory and Reputation in a Smart Community. IEEE Access, 2020, 8, 222168-222186.	4.2	35
24	Towards Sustainable Energy Efficiency With Intelligent Electricity Theft Detection in Smart Grids Emphasising Enhanced Neural Networks. IEEE Access, 2021, 9, 25036-25061.	4.2	35
25	Forensic Analysis on Internet of Things (IoT) Device Using Machine-to-Machine (M2M) Framework. Electronics (Switzerland), 2022, 11, 1126.	3.1	32
26	GUIDE: Smartphone sensorsâ€based pedestrian indoor localization with heterogeneous devices. International Journal of Communication Systems, 2019, 32, e4062.	2.5	30
27	Topic Modeling Technique for Text Mining Over Biomedical Text Corpora Through Hybrid Inverse Documents Frequency and Fuzzy K-Means Clustering. IEEE Access, 2019, 7, 146070-146080.	4.2	28
28	Framework for efficient utilisation of social media in Pakistan's healthcare sector. Technology in Society, 2019, 56, 31-43.	9.4	28
29	A Robust Adaptive Overcurrent Relay Coordination Scheme for Wind-Farm-Integrated Power Systems Based on Forecasting the Wind Dynamics for Smart Energy Systems. Applied Sciences (Switzerland), 2020, 10, 6318.	2.5	28
30	An Attention Guided Semi-Supervised Learning Mechanism to Detect Electricity Frauds in the Distribution Systems. IEEE Access, 2020, 8, 221767-221782.	4.2	28
31	Floor Identification Using Magnetic Field Data with Smartphone Sensors. Sensors, 2019, 19, 2538.	3.8	26
32	Supply chain coordination to optimize manufacturer's capacity procurement decisions through a new commitment-based model with penalty and revenue-sharing. International Journal of Production Economics, 2019, 208, 512-528.	8.9	26
33	Towards Modified Entropy Mutual Information Feature Selection to Forecast Medium-Term Load Using a Deep Learning Model in Smart Homes. Entropy, 2020, 22, 68.	2.2	26
34	A Novel Hybrid MPPT Technique to Maximize Power Harvesting from PV System under Partial and Complex Partial Shading. Applied Sciences (Switzerland), 2022, 12, 587.	2.5	26
35	Effects of Putrescine Application on Peach Fruit during Storage. Sustainability, 2019, 11, 2013.	3.2	25
36	Automated Detection of Alzheimerâ€™s via Hybrid Classical Quantum Neural Networks. Electronics (Switzerland), 2022, 11, 721.	3.1	25

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37	Towards the Guidelines for Requirements Change Management in Global Software Development: Client-Vendor Perspective. IEEE Access, 2019, 7, 76985-77007.	4.2	24
38	Determinants of Consumersâ€™ Intentions towards the Purchase of Energy Efficient Appliances in Pakistan: An Extended Model of the Theory of Planned Behavior. Sustainability, 2021, 13, 565.	3.2	24
39	A Secure Trust Method for Multi-Agent System in Smart Grids Using Blockchain. IEEE Access, 2021, 9, 59848-59859.	4.2	23
40	Requirements Change Management Challenges of Global Software Development: An Empirical Investigation. IEEE Access, 2020, 8, 203070-203085.	4.2	21
41	Identification and Prioritization of Agile Requirements Change Management Success Factors in the Domain of Global Software Development. IEEE Access, 2020, 8, 44714-44726.	4.2	21
42	An Improved Lightweight Authentication Protocol for Wireless Body Area Networks. IEEE Access, 2020, 8, 190855-190872.	4.2	20
43	Isotopic Interpretation of Particulate Nitrate in the Metropolitan City of Karachi, Pakistan: Insight into the Oceanic Contribution to NO _x . Environmental Science & Technology, 2020, 54, 7787-7797.	10.0	20
44	Automatic Speech Recognition (ASR) Systems for Children: A Systematic Literature Review. Applied Sciences (Switzerland), 2022, 12, 4419.	2.5	20
45	Identification and prioritization of DevOps success factors using fuzzy-AHP approach. Soft Computing, 2023, 27, 1907-1931.	3.6	19
46	AZ-Model of software requirements change management in global software development. , 2018, , .		18
47	A provable and secure mobile user authentication scheme for mobile cloud computing services. International Journal of Communication Systems, 2019, 32, e3980.	2.5	18
48	Early-Stage Alzheimerâ€™s Disease Categorization Using PET Neuroimaging Modality and Convolutional Neural Networks in the 2D and 3D Domains. Sensors, 2022, 22, 4609.	3.8	18
49	Multiple Access Control for Cognitive Radio-Based IEEE 802.11ah Networks. Sensors, 2018, 18, 2043.	3.8	16
50	Harmonic Profile Enhancement of Grid Connected Fuel Cell through Cascaded H-Bridge Multi-Level Inverter and Improved Squirrel Search Optimization Technique. Energies, 2021, 14, 7947.	3.1	16
51	Processing of metallic fiber hybrid spun yarns for better electrical conductivity. Materials and Manufacturing Processes, 2019, 34, 1008-1015.	4.7	15
52	Deployment of Wireless Sensor Network and IoT Platform to Implement an Intelligent Animal Monitoring System. Sustainability, 2022, 14, 6249.	3.2	15
53	An Incentive and Reputation Mechanism Based on Blockchain for Crowd Sensing Network. Journal of Sensors, 2021, 2021, 1-14.	1.1	14
54	Feasibility of Solar Grid-Based Industrial Virtual Power Plant for Optimal Energy Scheduling: A Case of Indian Power Sector. Energies, 2022, 15, 752.	3.1	14

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55	Investigating the Role of QMS implementation on customers'™ satisfaction: A Case Study of SMEs. IFAC-PapersOnLine, 2019, 52, 2032-2037.	0.9	13
56	Qualitative and semi-quantitative analysis of health-care pharmaceutical products using laser-induced breakdown spectroscopy. Journal of Pharmaceutical Analysis, 2019, 9, 20-24.	5.3	13
57	Assessing the impacts of climate change on the high altitude snow- and glacier-fed hydrological regimes of Astore and Hunza, the sub-catchments of Upper Indus Basin. Journal of Water and Climate Change, 2020, 11, 479-490.	2.9	13
58	Monitoring and controlling of unaccounted for gas (UFG) in distribution networks: A case study of Sui Northern Gas Pipelines Limited Pakistan. IFAC-PapersOnLine, 2018, 51, 253-258.	0.9	12
59	Spatio-temporal variations of absorbing aerosols and their relationship with meteorology over four high altitude sites in glaciated region of Pakistan. Journal of Atmospheric and Solar-Terrestrial Physics, 2019, 190, 84-95.	1.6	10
60	Organization Type and Size Based Identification of Requirements Change Management Challenges in Global Software Development. IEEE Access, 2020, 8, 94089-94111.	4.2	10
61	Electricity Theft Detection With Automatic Labeling and Enhanced RUSBoost Classification Using Differential Evolution and Jaya Algorithm. IEEE Access, 2021, 9, 128521-128539.	4.2	10
62	Model Selection Using K-Means Clustering Algorithm for the Symmetrical Segmentation of Remote Sensing Datasets. Symmetry, 2022, 14, 1149.	2.2	10
63	Public system usability analysis for the valuation of cognitive burden and interface standardization: A case study of cross-ATM design. Journal of Organizational Computing and Electronic Commerce, 2017, 27, 162-196.	1.8	9
64	Drought Risk Assessment in the Khushab Region of Pakistan Using Satellite Remote Sensing and Geospatial Methods. International Journal of Economic and Environment Geology, 2019, 10, 48-56.	0.1	9
65	Implementation of ANN-Based Embedded Hybrid Power Filter Using HIL-Topology with Real-Time Data Visualization through Node-RED. Energies, 2021, 14, 7127.	3.1	9
66	Assessing Land Cover Transformation for Urban Environmental Sustainability through Satellite Sensing. Sustainability, 2022, 14, 2810.	3.2	9
67	Role of batch size in scheduling optimization of flexible manufacturing system using genetic algorithm. Journal of Industrial Engineering International, 2019, 15, 135-146.	1.8	8
68	Productivity Improvement Through Time Study Approach: A Case Study from an Apparel Manufacturing Industry of Pakistan. Procedia Manufacturing, 2019, 39, 1447-1454.	1.9	8
69	Current Harmonic Aggregation Cases for Contemporary Loads. Energies, 2022, 15, 437.	3.1	8
70	The Trajectories, Trends, and Opportunities for Assessing Urban Ecosystem Services: A Systematic Review of Geospatial Methods. Sustainability, 2022, 14, 1471.	3.2	8
71	Design and Optimization of Microwave Sensor for the Non-Contact Measurement of Pure Dielectric Materials. Electronics (Switzerland), 2021, 10, 3057.	3.1	8
72	Reliability Analysis of Bifacial PV Panel-Based Inverters Considering the Effect of Geographical Location. Energies, 2022, 15, 170.	3.1	8

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73	Deep Learning-Based Multiparametric Predictions for IoT. Sustainability, 2020, 12, 7752.	3.2	7
74	Electricity Consumption Forecasting Using Gated-FCN With Ensemble Strategy. IEEE Access, 2021, 9, 131365-131381.	4.2	7
75	A Detailed Testing Procedure of Numerical Differential Protection Relay for EHV Auto Transformer. Energies, 2021, 14, 8447.	3.1	7
76	Impact of ICT in Modernizing the Global Education Industry to Yield Better Academic Outreach. Sustainability, 2022, 14, 6884.	3.2	7
77	Adaptive Auction Framework for Spectrum Market in Cognitive Radio Networks. Journal of Network and Systems Management, 2018, 26, 518-546.	4.9	6
78	ELS-Net: A New Approach to Forecast Decomposed Intrinsic Mode Functions of Electricity Load. IEEE Access, 2020, 8, 198935-198949.	4.2	6
79	Smart City Taxi Trajectory Coverage and Capacity Evaluation Model for Vehicular Sensor Networks. Sustainability, 2021, 13, 10907.	3.2	6
80	Secure V2X Environment using Blockchain Technology. , 2020, , .		6
81	Performance Analysis of Mars-Powered Descent-Based Landing in a Constrained Optimization Control Framework. Energies, 2021, 14, 8493.	3.1	6
82	An optimal joint maintenance and spare parts inventory model. International Journal of Industrial and Systems Engineering, 2018, 29, 177.	0.2	5
83	Ranked Sense Multiple Access Control Protocol for Multichannel Cognitive Radio-Based IoT Networks. Sensors, 2019, 19, 1703.	3.8	5
84	Software Requirements Engineering Maturity Model (SREMM) in Offshore Software Development Outsourcing. , 2019, , .		5
85	Cost Efficient Real Time Electricity Management Services for Green Community Using Fog. Energies, 2020, 13, 3164.	3.1	5
86	Dynamic Wireless Information and Power Transfer Scheme for Nano-Empowered Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4088-4099.	8.0	5
87	Hand Arm Vibration, Grip Strength Assessment and the Prevalence of Health Disorders Among Stone Crushing Workers. Advances in Intelligent Systems and Computing, 2018, , 3-13.	0.6	5
88	Factors influencing the requirements engineering process in offshore software development outsourcing environments. IET Software, 2020, 14, 623-637.	2.1	5
89	Towards successful global software development. , 2020, , .		5
90	EEG Signals based Brain Source Localization Approaches. International Journal of Advanced Computer Science and Applications, 2018, 9, .	0.7	5

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91	Match-Level Fusion of Finger-Knuckle Print and Iris for Human Identity Validation Using Neuro-Fuzzy Classifier. <i>Sensors</i> , 2022, 22, 3620.	3.8	5
92	Adaptive and Economically-Robust Group Selling of Spectrum Slots for Cognitive Radio-Based Networks. <i>Sensors</i> , 2018, 18, 2490.	3.8	4
93	An Empirical Study on Diabetes Depression over Distress Evaluation Using Diagnosis Statistical Manual and Chi-Square Method. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 3755.	2.6	4
94	Towards Efficient and Secure Global Software Development using Blockchain. , 2020, , .		4
95	Investigation and Field Measurements for Demand Side Management Control Technique of Smart Air Conditioners located at Residential, Commercial, and Industrial Sites. <i>Energies</i> , 2022, 15, 2482.	3.1	4
96	Handshake Sense Multiple Access Control for Cognitive Radio-Based IoT Networks. <i>Sensors</i> , 2019, 19, 241.	3.8	3
97	Assessment of Isometric Pulls Strength of Industrial Cart Pullers -An Electromyography Study from an Apparel Manufacturing Industry. <i>Procedia Manufacturing</i> , 2019, 39, 1438-1446.	1.9	3
98	An optimal joint maintenance and spare parts inventory model. <i>International Journal of Industrial and Systems Engineering</i> , 2018, 29, 177.	0.2	3
99	Empirical Analysis of Machine Learning Algorithms for Multiclass Prediction. <i>Wireless Communications and Mobile Computing</i> , 2022, 2022, 1-12.	1.2	3
100	Flexible and efficient aggregation framework for antifrangible wireless mesh networks. <i>Journal of Reliable Intelligent Environments</i> , 2015, 1, 159-171.	5.2	2
101	Production allocation decision using revenue sharing contract with prior commitments and two-way penalties. <i>International Journal of Industrial and Systems Engineering</i> , 2017, 26, 247.	0.2	2
102	Self-Citation Analysis on Google Scholar Dataset for H-Index Corrections. <i>IEEE Access</i> , 2019, 7, 126025-126036.	4.2	2
103	Analysis of Packet Diversity in Buffer-Aided Relaying over Symmetric and Asymmetric Rayleigh Fading Channels. <i>Symmetry</i> , 2020, 12, 241.	2.2	2
104	Spatiotemporal Analysis of Land Use / Land Cover in Swat, Pakistan Using Supervised Classification in Remote Sensing: 2000 to 2015. <i>International Journal of Economic and Environment Geology</i> , 2020, 11, 69-74.	0.1	2
105	Drought Risk Assessment in the Khushab Region of Pakistan Using Satellite Remote Sensing and Geospatial Methods. <i>International Journal of Economic and Environment Geology</i> , 2019, 10, 48-56.	0.1	2
106	Using Multi-Mission Satellite Elevation Data for Delineation of Gilgit Watershed in Pakistan in Geographical Information Technology Environment. <i>International Journal of Economic and Environment Geology</i> , 2020, 11, 19-24.	0.1	2
107	Performance Evaluation of Spectral Efficiency for Uplink and Downlink Multi-Cell Massive MIMO Systems. <i>Journal of Sensors</i> , 2022, 2022, 1-12.	1.1	2
108	Design and Analysis of a Novel Hybrid Wireless Mesh Network Routing Protocol. <i>International Journal of Adaptive Resilient and Autonomic Systems</i> , 2014, 5, 20-39.	0.3	1

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109	Reverse Logistics Route Selection Using AHP: A Case Study of Electronics Scrap from Pakistan. IFIP Advances in Information and Communication Technology, 2018, , 3-10.	0.7	1
110	Brain Mapping of Cortical Epileptogenic Zones and Their EEG Source Localization. , 2019, , .		1
111	Seasonal Variability of Atmospheric Aerosols in Karachi, Pakistan. International Journal of Economic and Environment Geology, 2019, 10, 57-63.	0.1	1
112	Production allocation decision using revenue sharing contract with prior commitments and two-way penalties. International Journal of Industrial and Systems Engineering, 2017, 26, 247.	0.2	1
113	Seasonal Variability of Atmospheric Aerosols in Karachi, Pakistan. International Journal of Economic and Environment Geology, 2019, 10, 57-63.	0.1	1
114	Analysis of Complex Solid-Gas Flow under the Influence of Gravity through Inclined Channel and Comparison with Real-Time Dual-Sensor System. Electronics (Switzerland), 2021, 10, 2849.	3.1	1
115	Evaluation of Fractal Dimension and Topographic Surface Roughness (Vertical Dissection) in Astore-Deosai-Skardu Region in GIS Environment Using ASTER GDEM. International Journal of Economic and Environment Geology, 2019, 10, 1-6.	0.1	0
116	Evaluation of Fractal Dimension and Topographic Surface Roughness (Vertical Dissection) in Astore-Deosai-Skardu Region in GIS Environment Using ASTER GDEM. International Journal of Economic and Environment Geology, 2019, 10, 1-6.	0.1	0
117	Optimizing Throughput, WIP and Cycle Time: A Case Study of Utensils Manufacturing Shop Floor. Journal of Engineering Research, 2020, 8, .	0.7	0
118	Neotectonics of Zindapir Anticline and Sulaiman Fold and Thrust Belt: Inferences from SRTM DEM. International Journal of Economic and Environment Geology, 2020, 11, 77-82.	0.1	0
119	Neotectonics of Zindapir Anticline and Sulaiman Fold and Thrust Belt: Inferences from SRTM DEM. International Journal of Economic and Environment Geology, 2020, 11, 77-82.	0.1	0
120	Landuse and Community-based Assessment of 2014 Flood Damages in Tehsil Phalia, Punjab. International Journal of Economic and Environment Geology, 2020, 11, 55-60.	0.1	0
121	Security Hardened and Privacy Preserved Vehicle-to-Everything (V2X) Communication. Security and Communication Networks, 2022, 2022, 1-4.	1.5	0