Raheel Nawaz

List of Publications by Year
in descending order

103 papers	**2,130** citations	257101 **24** h-index	301761 **39** g-index
103 all docs	**103** docs citations	**103** times ranked	**1614** citing authors

#	Article	IF	Citations
1	Predicting academic performance of students from VLE big data using deep learning models. Computers in Human Behavior, 2020, 104, 106189.	5.1	232
2	Potentially guided bidirectionalized RRT* for fast optimal path planning in cluttered environments. Robotics and Autonomous Systems, 2018, 108, 13-27.	3.0	109
3	A Framework to Estimate the Nutritional Value of Food in Real Time Using Deep Learning Techniques. IEEE Access, 2019, 7, 2643-2652.	2.6	66
4	Event-based text mining for biology and functional genomics. Briefings in Functional Genomics, 2015, 14, 213-230.	1.3	58
5	Enriching a biomedical event corpus with meta-knowledge annotation. BMC Bioinformatics, 2011, 12, 393.	1.2	57
6	Active Contours Based Segmentation and Lesion Periphery Analysis for Characterization of Skin Lesions in Dermoscopy Images. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 489-500.	3.9	55
7	Deep sentiments in Roman Urdu text using Recurrent Convolutional Neural Network model. Information Processing and Management, 2020, 57, 102233.	5.4	53
8	Negated bio-events: analysis and identification. BMC Bioinformatics, 2013, 14, 14.	1.2	52
9	An expert system for diabetes prediction using auto tuned multi-layer perceptron. , 2017, , .		52
10	Identification of research hypotheses and new knowledge from scientific literature. BMC Medical Informatics and Decision Making, 2018, 18, 46.	1.5	52
11	An Adaptive Multi-Robot Therapy for Improving Joint Attention and Imitation of ASD Children. IEEE Access, 2019, 7, 81808-81825.	2.6	51
12	Predicting literatureâ€™s early impact with sentiment analysis in Twitter. Knowledge-Based Systems, 2020, 192, 105383.	4.0	46
13	Deep context of citations using machine-learning models in scholarly full-text articles. Scientometrics, 2018, 117, 1645-1662.	1.6	45
14	Mining network-level properties of Twitter altmetrics data. Scientometrics, 2019, 120, 217-235.	1.6	44
15	Deep Learning-based Extraction of Algorithmic Metadata in Full-Text Scholarly Documents. Information Processing and Management, 2020, 57, 102269.	5.4	42
16	Machine Learning Based Energy Management Model for Smart Grid and Renewable Energy Districts. IEEE Access, 2020, 8, 185059-185078.	2.6	41
17	HRS-CE: A hybrid framework to integrate content embeddings in recommender systems for cold start items. Journal of Computational Science, 2018, 29, 9-18.	1.5	38
18	An Optimal Ride Sharing Recommendation Framework for Carpooling Services. IEEE Access, 2018, 6, 62296-62313.	2.6	38

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19	Enriching news events with meta-knowledge information. Language Resources and Evaluation, 2017, 51, 409-438.	1.8	33
20	Collaborative Trust Blockchain Based Unbiased Control Transfer Mechanism for Industrial Automation. IEEE Transactions on Industry Applications, 2020, , 1-1.	3.3	32
21	Enhancing Search: Events and Their Discourse Context. Lecture Notes in Computer Science, 2013, , 318-334.	1.0	32
22	HCF-CRS: A Hybrid Content based Fuzzy Conformal Recommender System for providing recommendations with confidence. PLoS ONE, 2018, 13, e0204849.	1.1	31
23	Detecting experimental techniques and selecting relevant documents for protein-protein interactions from biomedical literature. BMC Bioinformatics, 2011, 12, S11.	1.2	30
24	A decade of in-text citation analysis based on natural language processing and machine learning techniques: an overview of empirical studies. Scientometrics, 2021, 126, 6551-6599.	1.6	28
25	HateClassify: A Service Framework for Hate Speech Identification on Social Media. IEEE Internet Computing, 2021, 25, 40-49.	3.2	27
26	Bot detection using a single post on social media. , 2019, , .		25
27	HTSS: A novel hybrid text summarisation and simplification architecture. Information Processing and Management, 2020, 57, 102351.	5.4	25
28	Leveraging Deep Learning and SNA approaches for Smart City Policing in the Developing World. International Journal of Information Management, 2021, 56, 102045.	10.5	25
29	Neural Networks Based Shunt Hybrid Active Power Filter for Harmonic Elimination. IEEE Access, 2021, 9, 69913-69925.	2.6	25
30	CBLSTM-AE: A Hybrid Deep Learning Framework for Predicting Energy Consumption. Energies, 2022, 15, 810.	1.6	25
31	Strengthen user authentication on mobile devices by using user's touch dynamics pattern. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 4019-4039.	3.3	24
32	OGMAD: Optimal GTS-Allocation Mechanism for Adaptive Data Requirements in IEEE 802.15.4 Based Internet of Things. IEEE Access, 2019, 7, 170629-170639.	2.6	23
33	Real-time image dehazing by superpixels segmentation and guidance filter. Journal of Real-Time Image Processing, 2021, 18, 1555-1575.	2.2	23
34	Sentiment analysis of tweets through Altmetrics: A machine learning approach. Journal of Information Science, 2021, 47, 712-726.	2.0	22
35	Facilitating the Analysis of Discourse Phenomena in an Interoperable NLP Platform. Lecture Notes in Computer Science, 2013, , 559-571.	1.0	22
36	Gaussian Mixture Model Based Probabilistic Modeling of Images for Medical Image Segmentation. IEEE Access, 2020, 8, 16846-16856.	2.6	21

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37	FLF-LSTM: A novel prediction system using Forex Loss Function. Applied Soft Computing Journal, 2020, 97, 106780.	4.1	20
38	Comparing the Effectiveness of Different Reinforcement Stimuli in a Robotic Therapy for Children With ASD. IEEE Access, 2020, 8, 13128-13137.	2.6	19
39	A Hybrid Tool for Visual Pollution Assessment in Urban Environments. Sustainability, 2019, 11, 2211.	1.6	18
40	Sentiment analysis for Urdu online reviews using deep learning models. Expert Systems, 2021, 38, e12751.	2.9	18
41	A hybrid mask RCNN-based tool to localize dental cavities from real-time mixed photographic images. PeerJ Computer Science, 2022, 8, e888.	2.7	18
42	Adaptive Filtering on GPS-Aided MEMS-IMU for Optimal Estimation of Ground Vehicle Trajectory. Sensors, 2019, 19, 5357.	2.1	17
43	Neural Text Simplification of Clinical Letters with a Domain Specific Phrase Table. , 2019, , .		17
44	Leveraging AI and Machine Learning for National Student Survey: Actionable Insights from Textual Feedback to Enhance Quality of Teaching and Learning in UKâ€™s Higher Education. Applied Sciences (Switzerland), 2022, 12, 514.	1.3	17
45	IoT Based Healthâ€"Related Topic Recognition from Emerging Online Health Community (Med Help) Using Machine Learning Technique. Electronics (Switzerland), 2020, 9, 1469.	1.8	16
46	Webometrics: evolution of social media presence of universities. Scientometrics, 2021, 126, 951-967.	1.6	16
47	Balancing sequential data to predict students at-risk using adversarial networks. Computers and Electrical Engineering, 2021, 93, 107274.	3.0	16
48	Development and Testing of a Wearable Vibrotactile Haptic Feedback System for Proprioceptive Rehabilitation. IEEE Access, 2020, 8, 35172-35184.	2.6	15
49	Mediating Bullying and Strain in Higher Education Institutions: The Case of Pakistan. Sustainability, 2019, 11, 2244.	1.6	14
50	A Cost-Effective Electric Vehicle Intelligent Charge Scheduling Method for Commercial Smart Parking Lots Using a Simplified Convex Relaxation Technique. Sensors, 2020, 20, 4842.	2.1	14
51	CPU and RAM Energy-Based SLA-Aware Workload Consolidation Techniques for Clouds. IEEE Access, 2020, 8, 62990-63003.	2.6	14
52	Requirement Validation for Embedded Systems in Automotive Industry Through Modeling. IEEE Access, 2020, 8, 8697-8719.	2.6	13
53	Mitigating Urban Visual Pollution through a Multistakeholder Spatial Decision Support System to Optimize Locational Potential of Billboards. ISPRS International Journal of Geo-Information, 2021, 10, 60.	1.4	13
54	News search using discourse analytics. , 2013, , .		12

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55	Measuring the Scale and Scope of Workplace Bullying: An Alternative Workplace Bullying Scale. Sustainability, 2019, 11, 4634.	1.6	11
56	Auto-MeDiSine: an auto-tunable medical decision support engine using an automated class outlier detection method and AutoMLP. Neural Computing and Applications, 2020, 32, 2621-2633.	3.2	11
57	Linking Work-Family Conflict (WFC) and Talent Management: Insights from a Developing Country. Sustainability, 2020, 12, 2861.	1.6	10
58	A framework to evaluate the interoperability of information systems â€" Measuring the maturity of the business process alignment. International Journal of Information Management, 2020, 54, 102153.	10.5	10
59	Analysing the impact of global demographic characteristics over the COVID-19 spread using class rule mining and pattern matching. Royal Society Open Science, 2021, 8, 201823.	1.1	10
60	Proximal Actuation of an Elastically Loaded Scissors Mechanism for the Leg Design of a Quadruped Robot. IEEE Access, 2020, 8, 208240-208252.	2.6	9
61	Power Outage Estimation: The Study of Revenue-Led Top Affected States of U.S. IEEE Access, 2020, 8, 223271-223286.	2.6	9
62	A Preliminary Study on Effectiveness of a Standardized Multi-Robot Therapy for Improvement in Collaborative Multi-Human Interaction of Children With ASD. IEEE Access, 2020, 8, 109466-109474.	2.6	9
63	Incentive Based Load Shedding Management in a Microgrid Using Combinatorial Auction with IoT Infrastructure. Sensors, 2021, 21, 1935.	2.1	9
64	DGSD: Distributed graph representation via graph statistical properties. Future Generation Computer Systems, 2021, 119, 166-175.	4.9	9
65	SocialRec: A Context-Aware Recommendation Framework With Explicit Sentiment Analysis. IEEE Access, 2019, 7, 116295-116308.	2.6	8
66	Measuring the Scale and Scope of Social Anxiety among Students in Pakistani Higher Education Institutions: An Alternative Social Anxiety Scale. Sustainability, 2020, 12, 2164.	1.6	8
67	Accelerated Dynamic MRI Using Kernel-Based Low Rank Constraint. Journal of Medical Systems, 2019, 43, 271.	2.2	7
68	Extracting scientific trends by mining topics from Call for Papers. Library Hi Tech, 2022, 40, 115-132.	3.7	7
69	Investigation of 9000 hours multi-stress aging effects on High-Temperature Vulcanized Silicone Rubber with silica (nano/micro) filler hybrid composite insulator. PLoS ONE, 2021, 16, e0253372.	1.1	7
70	Beyond the Horizon, Backhaul Connectivity for Offshore IoT Devices. Energies, 2021, 14, 6918.	1.6	7
71	Building Covert Timing Channel of the IoT-Enabled MTS Based on Multi-Stage Verification. IEEE Transactions on Intelligent Transportation Systems, 2021, , 1-18.	4.7	7
72	A Modified Bayesian Framework for Multi-Sensor Target Tracking with Out-of-Sequence-Measurements. Sensors, 2020, 20, 3821.	2.1	6

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73	SCNN-Attack: A Side-Channel Attack to Identify YouTube Videos in a VPN and Non-VPN Network Traffic. Electronics (Switzerland), 2022, 11, 350.	1.8	6
74	A CPW fed quad-port MIMO DRA for sub-6 GHz 5G applications. PLoS ONE, 2022, 17, e0268867.	1.1	6
75	Mining the Context of Citations in Scientific Publications. Lecture Notes in Computer Science, 2018, , 316-322.	1.0	5
76	Multi-Renewable Energy Agent Based Control for Economic Dispatch and Frequency Regulation of Autonomous Renewable Grid. IEEE Access, 2020, 8, 89534-89545.	2.6	5
77	Vision towards 5G: Comparison of radio propagation models for licensed and unlicensed indoor femtocell sensor networks. Physical Communication, 2021, 47, 101371.	1.2	5
78	Parsing AUC Result-Figures in Machine Learning Specific Scholarly Documents for Semantically-enriched Summarization. Applied Artificial Intelligence, 2022, 36, .	2.0	5
79	Extension of Semantic Based Urdu Linguistic Resources Using Natural Language Processing. , 2017, , .		4
80	Osteoporosis Classification Using Texture Features. , 2019, , .		4
81	Novel Framework for Outdoor Mobility Assistance and Auditory Display for Visually Impaired People. , 2019, , .		4
82	An Adaptive Distributed Averaging Integral Control Scheme for Micro-Grids With Renewable Intermittency and Varying Operating Cost. IEEE Access, 2020, 8, 455-464.	2.6	4
83	An Experimental Trial: Multi-Robot Therapy for Categorization of Autism Level Using Hidden Markov Model. Journal of Educational Computing Research, 2022, 60, 722-741.	3.6	4
84	Citation Classification Using Natural Language Processing and Machine Learning Models. Lecture Notes in Electrical Engineering, 2020, , 357-365.	0.3	4
85	AdaDiffGrad: An Adaptive Batch Size Implementation Technique for DiffGrad Optimization Method. , 2020, , .		4
86	Detailed analysis of Ethereum network on transaction behavior, community structure and link prediction. PeerJ Computer Science, 2021, 7, e815.	2.7	4
87	An Intelligent Context Aware Recommender System for Real-Estate. Communications in Computer and Information Science, 2020, , 177-191.	0.4	3
88	A hybrid group-based movie recommendation framework with overlapping memberships. PLoS ONE, 2022, 17, e0266103.	1.1	3
89	MicroRNAs and their target mRNAs as potential biomarkers among smokers and non-smokers with lung adenocarcinoma. IET Systems Biology, 2019, 13, 69-76.	0.8	2
90	DeepRank: Adapting Neural Tensor Networks for Ranking the Recommendations. Communications in Computer and Information Science, 2020, , 162-176.	0.4	2

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91	A death, infection, and recovery (DIR) model to forecast the COVID-19 spread. Computer Methods and Programs in Biomedicine Update, 2022, 2, 100047.	2.3	2
92	One emoji, many meanings: A corpus for the prediction and disambiguation of emoji sense. Expert Systems With Applications, 2022, 198, 116862.	4.4	2
93	Who Cites Whom and How It Impacts the Knowledge Production Process across Disciplines?: A Methodological Insight. Science and Technology Libraries, 2023, 42, 201-214.	0.8	2
94	"Mining events from the literature for bioinformatics applications" by S. Ananiadou, P. Thompson, and R. Nawaz; with Martin Vesely as coordinator. SIGWEB Newsletter: the Newsletter of ACM's Special Interest Group on Hypertext and Hypermedia, 2013, , 1-12.	0.5	1
95	Multi-Modal Data Analysis Based Game Player Experience Modeling Using LSTM-DNN. Computers, Materials and Continua, 2021, 68, 4087-4108.	1.5	1
96	Trading Strategy in a Local Energy Market, a Deep Reinforcement Learning Approach. , 2021, , .		1
97	Demonstrating and negotiating the adoption of web design technologies: Cascading Style Sheets and the CSS Zen Garden. Internet Histories, 2023, 7, 27-46.	0.6	1
98	Social mining for sustainable cities: thematic study of gender-based violence coverage in news articles and domestic violence in relation to COVID-19. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 14631-14642.	3.3	1
99	Sensing Your Touch: Strengthen User Authentication via Touch Dynamic Biometrics. , 2019, , .		0
100	Towards Interdisciplinary Research: A Bibliometric View of Information Communication Technology for Development in Different Disciplines. , 2019, , .		0
101	Identification of Yeastâ€™s Interactome Using Neural Networks. IEEE Access, 2019, 7, 179634-179645.	2.6	0
102	NGO online disclosures index in the presence of auxiliary information. PLoS ONE, 2020, 15, e0238297.	1.1	0
103	Quantifying Self-consumption and Flexibility Provision through Battery Storage, a Deep Reinforcement Learning Approach. , 2021, , .		0