

Muhammad Nazrul Islam

List of Publications by Year in descending order

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Version: 2024-02-01

113
papers

1,531
citations

516710

16
h-index

454955

30
g-index

120
all docs

120
docs citations

120
times ranked

848
citing authors

#	ARTICLE	IF	CITATIONS
1	A Machine Learning Model for Predicting Individual Substance Abuse with Associated Risk-Factors. <i>Annals of Data Science</i> , 2023, 10, 1607-1634.	3.2	7
2	Evaluation of an Interactive Computer-Enabled Tabletop Learning Tool for Children with Special Needs. <i>Journal of Educational Computing Research</i> , 2023, 60, 2105-2137.	5.5	3
3	How Usability and User Experience Vary Among the Basic m-Commerce, AR and VR Based User Interfaces of Mobile Application for Online Shopping. <i>Springer Series in Design and Innovation</i> , 2022, , 44-53.	0.3	2
4	Exploring the Performance of Ensemble Machine Learning Classifiers for Sentiment Analysis of COVID-19 Tweets. <i>Advances in Intelligent Systems and Computing</i> , 2022, , 383-396.	0.6	21
5	A Deep Learning Approach to Predict Academic Result and Recommend Study Plan for Improving Student's Academic Performance. <i>Smart Innovation, Systems and Technologies</i> , 2022, , 253-266.	0.6	4
6	COVID-19 and black fungus: Analysis of the public perceptions through machine learning. <i>Engineering Reports</i> , 2022, 4, e12475.	1.7	11
7	UVC-PURGE: A Novel Cost-Effective Disinfection Robot for Combating COVID-19 Pandemic. <i>IEEE Access</i> , 2022, 10, 37613-37634.	4.2	14
8	IoT-Based Serious Gaming Platform for Improving Cognitive Skills of Children with Special Needs. <i>Journal of Educational Computing Research</i> , 2022, 60, 1588-1611.	5.5	6
9	Digital intervention to reduce counterfeit and falsified medicines: A systematic review and future research agenda. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2022, 34, 6699-6718.	3.9	8
10	Machine learning to predict pregnancy outcomes: a systematic review, synthesizing framework and future research agenda. <i>BMC Pregnancy and Childbirth</i> , 2022, 22, 348.	2.4	27
11	Assessing Usability of Mobile Applications Developed for Autistic Users through Heuristic and Semiotic Evaluation. <i>Algorithms for Intelligent Systems</i> , 2022, , 25-39.	0.6	4
12	A deep learning based multimodal interaction system for bed ridden and immobile hospital admitted patients: design, development and evaluation. <i>BMC Health Services Research</i> , 2022, 22, .	2.2	4
13	Developing a Novel Hands-free Interaction Technique based on Nose and Teeth Movements for Using Mobile Devices. <i>IEEE Access</i> , 2021, , 1-1.	4.2	1
14	Designing and Developing Graphical User Interface for the MultiChain Blockchain: Towards Incorporating HCI in Blockchain. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 446-456.	0.6	4
15	Exploring Machine Learning Algorithms to Find the Best Features for Predicting Modes of Childbirth. <i>IEEE Access</i> , 2021, 9, 1680-1692.	4.2	19
16	A Mobile Application for Mental Health Care During COVID-19 Pandemic: Development and Usability Evaluation with System Usability Scale. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 33-42.	0.6	19
17	Exploring the Machine Learning Algorithms to Find the Best Features for Predicting the Breast Cancer and Its Recurrence. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 546-558.	0.6	9
18	User-Centred Design-Based Privacy and Security Framework for Developing Mobile Health Applications. <i>Algorithms for Intelligent Systems</i> , 2021, , 203-216.	0.6	2

#	ARTICLE	IF	CITATIONS
19	Exploring the Machine Learning Algorithms to Find the Best Features for Predicting the Risk of Cardiovascular Diseases. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 559-569.	0.6	4
20	Evaluation of User's Emotional Experience Through Neurological and Physiological Measures in Playing Serious Games. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 1039-1050.	0.6	4
21	Exploring the Fundamental Factors of Digital Inequality in Bangladesh. <i>SAGE Open</i> , 2021, 11, 215824402110214.	1.7	14
22	Neurological and physiological measures to evaluate the usability and user-experience (UX) of information systems: A systematic literature review. <i>Computer Science Review</i> , 2021, 40, 100375.	15.3	14
23	A Machine Learning Based Sign Language Interpretation System for Communication with Deaf-mute People. , 2021, , .		2
24	Design and Development of a Gaming Application for Learning Recursive Programming. <i>Algorithms for Intelligent Systems</i> , 2021, , 285-296.	0.6	0
25	Development of a Predictive Analytic System for Chronic Kidney Disease using Ensemble-based Machine Learning. , 2021, , .		3
26	Requirements Elicitation and Development of a Graveyard Management System in the Context of Bangladesh. , 2021, , .		1
27	Sentiment Analysis of Bangladesh-specific COVID-19 Tweets using Deep Neural Network. , 2021, , .		6
28	Design, Development, and Evaluation of a Physical Exercise Monitoring and Managing System for Athletes. , 2021, , .		0
29	An Efficient Transfer Learning Model for Predicting Forged (Handwritten) Signature. , 2021, , .		5
30	Beliefs About COVID-19 of Elderly Residents in Rural Bangladesh. <i>Asia-Pacific Journal of Public Health</i> , 2020, 32, 527-528.	1.0	1
31	Towards developing a secure medical image sharing system based on zero trust principles and blockchain technology. <i>BMC Medical Informatics and Decision Making</i> , 2020, 20, 256.	3.0	57
32	A Review on the Mobile Applications Developed for COVID-19: An Exploratory Analysis. <i>IEEE Access</i> , 2020, 8, 145601-145610.	4.2	70
33	Chakuri-Bazaar: A Mobile Application for Illiterate and Semi-Literate People for Searching Employment. <i>International Journal of Mobile Human Computer Interaction</i> , 2020, 12, 22-39.	0.4	16
34	Ponno Aalap: An Interactive Web Portal for Improving Consumer Experience. , 2020, , .		3
35	A Critical Review of Concepts, Benefits, and Pitfalls of Blockchain Technology Using Concept Map. <i>IEEE Access</i> , 2020, 8, 68333-68341.	4.2	30
36	Evaluating Web and Mobile User Interfaces With Semiotics: An Empirical Study. <i>IEEE Access</i> , 2020, 8, 84396-84414.	4.2	22

#	ARTICLE	IF	CITATIONS
37	What drives unverified information sharing and cyberchondria during the COVID-19 pandemic?. European Journal of Information Systems, 2020, 29, 288-305.	9.2	312
38	A Systematic Review of the Digital Interventions for Fighting COVID-19: The Bangladesh Perspective. IEEE Access, 2020, 8, 114078-114087.	4.2	48
39	COVID-19 and the Rohingya Refugees in Bangladesh: The Challenges and Recommendations. Asia-Pacific Journal of Public Health, 2020, 32, 283-284.	1.0	22
40	Exploring and Evaluating the Usability Factors for Military Application: A Road Map for HCI in Military Applications. Human Factors and Mechanical Engineering for Defense and Safety, 2020, 4, 1.	0.4	18
41	Investigating usability of mobile health applications in Bangladesh. BMC Medical Informatics and Decision Making, 2020, 20, 19.	3.0	48
42	Towards Developing an IoT Based Gaming Application for Improving Cognitive Skills of Autistic Kids. Communications in Computer and Information Science, 2020, , 411-423.	0.5	8
43	A Systematic Review on the Use of AI and ML for Fighting the COVID-19 Pandemic. IEEE Transactions on Artificial Intelligence, 2020, 1, 258-270.	4.7	50
44	Prediction of Cesarean Childbirth using Ensemble Machine Learning Methods. , 2020, , .		20
45	Evaluating Usability of Pregnancy Tracker Applications in Bangladesh: A Heuristic and Semiotic Evaluation. , 2020, , .		7
46	Towards Developing an Automated Attendance Management System using Fingerprint Sensor. , 2020, , .		0
47	Exploring Design Issues in Developing Usable Mobile Application for Dyscalculia People. , 2020, , .		3
48	Exploring the Design Considerations for Developing an Interactive Tabletop Learning Tool for Children with Autism Spectrum Disorder. Lecture Notes on Data Engineering and Communications Technologies, 2020, , 834-844.	0.7	6
49	Blockchain and novel coronavirus: Towards preventing COVID-19 and future pandemics. Iberoamerican Journal of Medicine, 2020, 2, 215-218.	0.2	16
50	Success Factors of IT Projects: Undergraduate Students Perspective. , 2020, , .		2
51	Assessing the Usability of Ridesharing Mobile Applications in Bangladesh: An Empirical Study. , 2020, , .		5
52	A Wearable System for Path Finding to Assist Elderly People in an Indoor Environment. , 2019, , .		3
53	Towards Developing a Mobile Application for Illiterate People to Reduce Digital Divide. , 2019, , .		7
54	A Machine Learning Approach to Predict Autism Spectrum Disorder. , 2019, , .		92

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55	Applying Brain-Computer Interface Technology for Evaluation of User Experience in Playing Games. , 2019, , .		11
56	An IoT based Automated Door Accessing System for Visually Impaired People. , 2019, , .		5
57	Towards Developing an Intelligent Automated Water Pumping System for Dhaka City. , 2019, , .		1
58	A Machine Learning-Based Intelligent System for Predicting Diabetes. International Journal of Big Data and Analytics in Healthcare, 2019, 4, 1-20.	0.7	8
59	A Proposed Secure Mobile Money Transfer System for SME in Bangladesh: An Industry 4.0 Perspective. , 2019, , .		7
60	An Intelligent Assistive Tool for Alzheimerâ€™s Patient. , 2019, , .		8
61	Towards Developing an Intelligent Wheelchair for People with Congenital Disabilities and Mobility Impairment. , 2019, , .		3
62	An Efficient Tool for Learning Bengali Sign Language for Vocally Impaired People. Lecture Notes in Computer Science, 2019, , 41-53.	1.3	5
63	A Conceptual Framework for Improving Privacy in Mobile Operating Systems. , 2019, , .		3
64	Design and Development of an Intelligent Seed Germination System Based on IoT. Advances in Intelligent Systems and Computing, 2019, , 146-161.	0.6	2
65	Developing an Intelligent Waste Sorting System with Robotic Arm: A Step towards Green Environment. , 2018, , .		15
66	Security Threats for Big Data. International Journal of Information Communication Technologies and Human Development, 2018, 10, 1-18.	0.3	1
67	Towards Developing an Intelligent Fire Exit Guidance System Using Informed Search Technique. , 2018, , .		1
68	LocSoldiers: Towards Developing an Emergency Troops Locating System in Military Operations. , 2018, , .		7
69	SafeBand. , 2018, , .		21
70	An Explication of Acceptability of Wearable Devices in Context of Bangladesh: A User Study. , 2018, , .		3
71	A New Algorithm to Compute Single Source Shortest Path in a Real Edge Weighted Graph to Optimize Time Complexity. , 2018, , .		2
72	A Proposed System for Automated Electricity Bill Monitoring in Context of Bangladesh. , 2018, , .		1

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73	An Assistive System of Walking for Visually Impaired. , 2018, , .		12
74	Exploring the Opportunities and Challenges of Adopting Augmented Reality in Education in a Developing Country. , 2018, , .		6
75	Autism Sohayika: A Web Portal to Provide Services to Autistic Children. Lecture Notes in Computer Science, 2018, , 181-192.	1.3	6
76	Virtual Eye Doc: An Android based app in Bengali language for eye health & vision examination. , 2017, , .		1
77	Assessing the usability of e-government websites of Bangladesh. , 2017, , .		12
78	Security threats for big data: A study on Enron e-mail dataset. , 2017, , .		13
79	Towards developing an intelligent system to suggest optimal path based on historic and real-time traffic data. , 2017, , .		3
80	A new approach to hide data in color image using LSB steganography technique. , 2017, , .		5
81	Towards developing a tool for UX evaluation using facial expression. , 2017, , .		10
82	Developing a multi-channel military application using Interactive Dialogue Model (IDM). , 2017, , .		7
83	A proposed multi-channel system for public libraries in Bangladesh. , 2017, , .		3
84	GiveMed: A webportal for medicine distribution among poverty-stricken people. , 2017, , .		5
85	Towards developing a learning tool for children with autism. , 2017, , .		10
86	Diabetes Predicting mHealth Application Using Machine Learning. , 2017, , .		20
87	Using a Design Science Research Approach in Human-Computer Interaction (HCI) Project. International Journal of Virtual and Augmented Reality, 2017, 1, 42-59.	0.8	1
88	Mobile health applications in Bangladesh: A state-of-the-art. , 2016, , .		13
89	An improved chromosome sorting algorithm by permutation group-based inverted block-interchanges. , 2016, , .		0
90	A conceptual cloud-based model for developing e-commerce applications in context of Bangladesh. , 2016, , .		4

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91	Ontology mapping and semantics of web interface signs. Human-centric Computing and Information Sciences, 2016, 6, .	6.1	9
92	Towards userâ€™intuitive web interface sign design and evaluation: A semiotic framework. International Journal of Human Computer Studies, 2016, 86, 121-137.	5.6	45
93	Using a Design Science Research Approach to Develop a HCI Artifact for Designing Web Interfaces. Advances in Human and Social Aspects of Technology Book Series, 2016, , 304-320.	0.3	0
94	Exploring the intuitiveness of iconic, textual and icon with texts signs for designing user-intuitive web interfaces. , 2015, , .		6
95	Unveiling the Mysteries of the â€œBlack Holeâ€ in Recruiting Systems: Connecting Recruiters and Job Seekers Like a Jigsaw Puzzle. Procedia Manufacturing, 2015, 3, 3470-3477.	1.9	3
96	An assessment of a semiotic framework for evaluating user-intuitive Web interface signs. Universal Access in the Information Society, 2015, 14, 563-582.	3.0	19
97	Understanding the Semantics of Web Interface Signs: A Set of Ontological Principals. Lecture Notes in Computer Science, 2015, , 46-53.	1.3	0
98	Exploring the impact of interface signsâ€™ interpretation accuracy, design, and evaluation on web usability. Journal of Systems and Information Technology, 2014, 16, 250-276.	1.7	10
99	Exploring Interface Sign Ontologies for Web User Interface Design and Evaluation: A User Study. IFIP Advances in Information and Communication Technology, 2014, , 87-96.	0.7	2
100	A systematic literature review of semiotics perception in user interfaces. Journal of Systems and Information Technology, 2013, 15, 45-77.	1.7	23
101	Integrating Semiotics Perception in Usability Testing to Improve Usability Evaluation. Advances in Human and Social Aspects of Technology Book Series, 2013, , 145-169.	0.3	15
102	Towards Determinants of User-Intuitive Web Interface Signs. Lecture Notes in Computer Science, 2013, , 84-93.	1.3	2
103	Towards Designing Users' Intuitive Web Interface. , 2012, , .		10
104	Semiotics Perception towards Designing Usersâ€™ Intuitive Web User Interface: A Study on Interface Signs. Lecture Notes in Business Information Processing, 2012, , 139-155.	1.0	8
105	An efficient retina pattern recognition algorithm (RPRA) towards human identification. , 2009, , .		5
106	Algorithms for Generating Binary Reflected Gray Code Sequence: Time Efficient Approaches. , 2009, , .		4
107	A flow transparent multicast pre-reservation modification of RSVP for providing real-time services in wireless mobile networks. , 2009, , .		1
108	Performance evaluation of symmetric encryption algorithm in MANET and WLAN. , 2009, , .		5

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109	Effect of Security Increment to Symmetric Data Encryption through AES Methodology. , 2008, , .		23
110	Developing an extensible framework for content based searching in super peer p2p network. , 2007, , .		0
111	Generating Weighted Fuzzy Rules for Estimating Null Values Using an Evolutionary Algorithm. , 2006, , .		3
112	Exploring and Comparing the Performance of Design Methods Used for Information Intensive Websites. MIST Journal of Science and Technology, 0, 8, 49-60.	0.7	8
113	CurFi: An automated tool to find the best regression analysis model using curve fitting. Engineering Reports, 0, , .	1.7	1