Imran Sarwar Bajwa

List of Publications by Year
in descending order

101 papers	1,243 citations	516710 16 h-index	477307 29 g-index
110 all docs	110 docs citations	110 times ranked	858 citing authors

#	ARTICLE	IF	CITATIONS
1	An intelligent and secure smart watering system using fuzzy logic and blockchain. Computers and Electrical Engineering, 2019, 77, 109-119.	4.8	96
2	OCL Constraints Generation from Natural Language Specification. , 2010, , .		61
3	Design and Implementation of an IoT System for Smart Energy Consumption and Smart Irrigation in Tunnel Farming. Energies, 2018, 11, 3427.	3.1	56
4	An Intelligent Fire Warning Application Using IoT and an Adaptive Neuro-Fuzzy Inference System. Sensors, 2019, 19, 3150.	3.8	52
5	An Intelligent Data Analysis for Recommendation Systems Using Machine Learning. Scientific Programming, 2019, 2019, 1-20.	0.7	49
6	Effect of IoT Capabilities and Energy Consumption behavior on Green Supply Chain Integration. Applied Sciences (Switzerland), 2018, 8, 2481.	2.5	43
7	Intelligent and Smart Irrigation System Using Edge Computing and IoT. Complexity, 2021, 2021, 1-16.	1.6	43
8	IoT Healthcare: Design of Smart and Cost-Effective Sleep Quality Monitoring System. Journal of Sensors, 2020, 2020, 1-17.	1.1	40
9	An Intelligent IoT Based Healthcare System Using Fuzzy Neural Networks. Scientific Programming, 2020, 2020, 1-15.	0.7	37
10	Design and Application of Fuzzy Logic Based Fire Monitoring and Warning Systems for Smart Buildings. Symmetry, 2018, 10, 615.	2.2	35
11	An IoT-Based Real-Time Intelligent Monitoring and Notification System of Cold Storage. IEEE Access, 2021, 9, 38236-38253.	4.2	34
12	An IoT-Based Intelligent Wound Monitoring System. IEEE Access, 2019, 7, 144500-144515.	4.2	33
13	Integration of 5G and Block-Chain Technologies in Smart Telemedicine Using IoT. Journal of Healthcare Engineering, 2021, 2021, 1-18.	1.9	33
14	Internet of Things and Machine-Learning-Based Leaching Requirements Estimation for Saline Soils. IEEE Internet of Things Journal, 2020, 7, 4464-4472.	8.7	29
15	Smart Wound Hydration Monitoring Using Biosensors and Fuzzy Inference System. Wireless Communications and Mobile Computing, 2019, 2019, 1-15.	1.2	26
16	Minimizing ambiguity in natural language software requirements specification. , 2011, , .		25
17	Lexicon-based sentiment analysis for Urdu language. , 2016, , .		24
18	An Empirical Study on Forensic Analysis of Urdu Text Using LDA-Based Authorship Attribution. IEEE Access, 2019, 7, 3224-3234.	4.2	23

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19	A Fuzzy Logic Based Intelligent System for Measuring Customer Loyalty and Decision Making. Symmetry, 2018, 10, 761.	2.2	19
20	Clinical Decision Support System Based Virtual Telemedicine. , 2011, , .		17
21	A Neural Network-Inspired Approach for Improved and True Movie Recommendations. Computational Intelligence and Neuroscience, 2019, 2019, 1-19.	1.7	17
22	Intelligent Data Engineering for Migration to NoSQL Based Secure Environments. IEEE Access, 2019, 7, 69042-69057.	4.2	17
23	Robust Secure Color Image Watermarking Using 4D Hyperchaotic System, DWT, HbD, and SVD Based on Improved FOA Algorithm. Security and Communication Networks, 2021, 2021, 1-17.	1.5	16
24	Resolving Syntactic Ambiguities in Natural Language Specification of Constraints. Lecture Notes in Computer Science, 2012, , 178-187.	1.3	16
25	NL-Based Automated Software Requirements Elicitation and Specification. Communications in Computer and Information Science, 2011, , 30-39.	0.5	15
26	UCD-generator - a LESSA application for use case design. , 2007, , .		14
27	SBVR2UML: A Challenging Transformation. , 2011, , .		13
28	Design and Implementation of a Machine Learning-Based Authorship Identification Model. Scientific Programming, 2019, 2019, 1-14.	0.7	13
29	A Decentralized Edge Computing Latency-Aware Task Management Method With High Availability for IoT Applications. IEEE Access, 2021, 9, 138994-139008.	4.2	13
30	Smart eNose Food Waste Management System. Journal of Sensors, 2021, 2021, 1-13.	1.1	13
31	A Color Image Encryption Scheme Combining Hyperchaos and Genetic Codes. IEEE Access, 2022, 10, 14480-14495.	4.2	13
32	Design and Application of a Multi-Variant Expert System Using Apache Hadoop Framework. Sustainability, 2018, 10, 4280.	3.2	12
33	Virtual Telemedicine Using Natural Language Processing. International Journal of Information Technology and Web Engineering, 2010, 5, 43-55.	1.6	12
34	Translating natural language constraints to OCL. Journal of King Saud University - Computer and Information Sciences, 2012, 24, 117-128.	3.9	11
35	Internet of things (IoT) assisted soil salinity mapping at irrigation schema level. Applied Water Science, 2022, 12, 1.	5.6	11
36	A hash-based approach for colour image steganography. , 2011, , .		10

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37	Generating UML activity diagram from SBVR rules. , 2016, , .		10
38	Challenges in NoSQL-Based Distributed Data Storage: A Systematic Literature Review. Electronics (Switzerland), 2019, 8, 488.	3.1	10
39	From Natural Language Software Specifications to UML Class Models. Lecture Notes in Business Information Processing, 2012, , 224-237.	1.0	10
40	Railway Track Inspection Using Deep Learning Based on Audio to Spectrogram Conversion: An on-the-Fly Approach. Sensors, 2022, 22, 1983.	3.8	10
41	SBVR vs OCL: A comparative analysis of standards. , 2011, , .		9
42	Automatic Functional Brain MR Image Segmentation using Region Growing and Seed Pixel. , 2006, , .		8
43	BPM Meeting with SOA: A Customized Solution for Small Business Enterprises. , 2009, , .		8
44	A virtual telehealth framework: Applications and technical considerations. , 2011, , .		8
45	A model transformation from NL to SBVR. , 2014, , .		8
46	An Intelligent Approach for Handling Complexity by Migrating from Conventional Databases to Big Data. Symmetry, 2018, 10, 698.	2.2	7
47	An Intelligent and Smart Environment Monitoring System for Healthcare. Applied Sciences (Switzerland), 2019, 9, 4172.	2.5	7
48	Design and Development of a Large Cross-Lingual Plagiarism Corpus for Urdu-English Language Pair. Scientific Programming, 2019, 2019, 1-11.	0.7	7
49	Interacting with Data Warehouse by Using a Natural Language Interface. Lecture Notes in Computer Science, 2012, , 372-377.	1.3	7
50	A new perfect hashing based approach for secure stegnograph. , 2011, , .		6
51	An Intelligent Air Quality Sensing System for Open-Skin Wound Monitoring. Electronics (Switzerland), 2019, 8, 801.	3.1	6
52	PCA based image classification of single-layered cloud types. , 0, , .		5
53	Generating OLAP queries from natural language specification. , 2012, , .		5
54	An Automated Approach for Interpretation of Statistical Graphics. , 2014, , .		5

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55	IOT-Based Cotton Whitefly Prediction Using Deep Learning. Scientific Programming, 2021, 2021, 1-17.	0.7	5
56	Automated Generation of OCL Constraints: NL based Approach vs Pattern Based Approach. Mehran University Research Journal of Engineering and Technology, 2017, 37, 243-254.	0.6	5
57	A Conceptual Framework for Earthquake Disaster Management System (EDMS) for Quetta City using GIS. , 2006, , .		4
58	A Language Engineering System for Graphical User Interface Design (LESGUID): A Rule based Approach. , 0, , .		4
59	Rule based Production Systems for Automatic Code Generation in Java. , 2007, , .		4
60	Requirements Elicitation Methods. Advanced Materials Research, 0, 433-440, 6000-6006.	0.3	4
61	On a chain of transformations for generating alloy from NL constraints. , 2012, , .		4
62	Visualization of Salient Object With Saliency Maps Using Residual Neural Networks. IEEE Access, 2021, 9, 104626-104635.	4.2	4
63	Context Based Meaning Extraction by Means of Markov Logic. International Journal of Computer Theory and Engineering, 2010, , 35-38.	3.4	4
64	Authorship Attribution for a Resource Poor Language—Urdu. ACM Transactions on Asian and Low-Resource Language Information Processing, 2022, 21, 1-23.	2.0	4
65	Web Layout Mining (WLM): A New Paradigm for Intelligent Web Layout Design. , 2006, , .		3
66	A smart integrated environment for vehicular traffic simulation. International Journal of Communication Systems, 2019, 32, e4029.	2.5	3
67	An Intelligent Analytics Approach to Minimize Complexity in Ambiguous Software Requirements. Scientific Programming, 2021, 2021, 1-20.	0.7	3
68	A Semi Supervised Approach for Catchphrase Classification in Legal Text Documents. Journal of Computers, 2017, , 451-461.	0.4	3
69	Virtual Telemedicine and Virtual Telehealth. , 2013, , 881-892.		3
70	A Genetic Algorithm-Based Support Vector Machine Approach for Intelligent Usability Assessment of m-Learning Applications. Mobile Information Systems, 2022, 2022, 1-20.	0.6	3
71	A Study for Prediction of Minerals in Rock Images using Back Propagation Neural Networks. , 2006, , .		2
72	A Novel Approach for Automatic Generation of UML Class Diagrams from XMI. Communications in Computer and Information Science, 2012, , 164-175.	0.5	2

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73	Automatic Extraction of Catchphrases from Software License Agreement. , 2014, , .		2
74	A Cached-Based Stream-Relation Join Operator for Semi-Stream Data Processing. International Journal of Data Warehousing and Mining, 2016, 12, 14-31.	0.6	2
75	Requirements to Class Model via SBVR. International Journal of Open Source Software and Processes, 2019, 10, 70-87.	0.6	2
76	Generating SBVR-XML Representation of a Controlled Natural Language. Communications in Computer and Information Science, 2019, , 379-390.	0.5	2
77	Handling Semantic Complexity of Big Data using Machine Learning and RDF Ontology Model. Symmetry, 2019, 11, 309.	2.2	2
78	Markov Logic Based Inference Engine for CDSS. Mehran University Research Journal of Engineering and Technology, 2017, 36, 55-66.	0.6	2
79	Relational Database to Resource Description Framework and Its Schema. Communications in Computer and Information Science, 2019, , 604-617.	0.5	2
80	Automatic Domain Specific Terminology Extraction using a Decision Support System. , 2006, , .		1
81	Resource optimization for processing of stream data in data warehouse environment. , 2012, , .		1
82	Teeter-totter in testing. , 2013, , .		1
83	Automated analysis of logical connectives in business constraints. , 2013, , .		1
84	Scope resolution of logical connectives in NL constraints. , 2013, , .		1
85	A study on trends of mobile application usage and their distribution methods in Pakistan. , 2013, , .		1
86	OCL usability: a major challenge in adopting UML. , 2014, , .		1
87	A Cached-based approach to enrich Stream data with master data. , 2015, , .		1
88	Producing BPEL models from text. , 2016, , .		1
89	Natural language ambiguity resolution by intelligent semantic annotation of software requirements. Automated Software Engineering, 2021, 28, 1.	2.9	1
90	Generating Class Models Using Binary Space Partition Algorithm. Studies in Computational Intelligence, 2012, , 1-13.	0.9	1

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91	RSR-ARQ Mechanism for Unreliable Data Communication in GPRS. , 2008, , .		0
92	Quantifiers Types Resolution in NL Software Requirements. , 2013, , .		0
93	Prediction of minerals in rock images using Markov logic. , 2013, , .		0
94	Automatic event recognition and annotation in business requirement specifications. , 2013, , .		0
95	Welcome message from the chairs. , 2013, , .		0
96	Natural language processing based interpretation of skewed graphs. , 2014, , .		0
97	Automated DD-path testing: A challenging task in software testing. , 2014, , .		0
98	Parsing RDFs to Extract Object Oriented Model Using Apache Jena. Communications in Computer and Information Science, 2019, , 119-129.	0.5	0
99	An <scp>IoT</scp> assisted clinical decision support system for wound healthcare monitoring. Computational Intelligence, 2022, 38, 269-306.	3.2	0
100	Virtual Telemedicine and Virtual Telehealth. , 2012, , 183-195.		0
101	A Cache-Based Semi-Stream Join to deal with Unmatched Stream Data. Lecture Notes in Computer Science, 2015, , 54-65.	1.3	0