

# Imran Sarwar Bajwa

## List of Publications by Year in descending order

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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 <sc>IoT</sc> assisted clinical decision support system for wound healthcare monitoring. Computational Intelligence, 2022, 38, 269-306.	3.2	0
2	Authorship Attribution for a Resource Poor Languageâ€”Urdu. ACM Transactions on Asian and Low-Resource Language Information Processing, 2022, 21, 1-23.	2.0	4
3	A Color Image Encryption Scheme Combining Hyperchaos and Genetic Codes. IEEE Access, 2022, 10, 14480-14495.	4.2	13
4	Railway Track Inspection Using Deep Learning Based on Audio to Spectrogram Conversion: An on-the-Fly Approach. Sensors, 2022, 22, 1983.	3.8	10
5	Internet of things (IoT) assisted soil salinity mapping at irrigation schema level. Applied Water Science, 2022, 12, 1.	5.6	11
6	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
7	A Decentralized Edge Computing Latency-Aware Task Management Method With High Availability for IoT Applications. IEEE Access, 2021, 9, 138994-139008.	4.2	13
8	Visualization of Salient Object With Saliency Maps Using Residual Neural Networks. IEEE Access, 2021, 9, 104626-104635.	4.2	4
9	An IoT-Based Real-Time Intelligent Monitoring and Notification System of Cold Storage. IEEE Access, 2021, 9, 38236-38253.	4.2	34
10	Intelligent and Smart Irrigation System Using Edge Computing and IoT. Complexity, 2021, 2021, 1-16.	1.6	43
11	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
12	Integration of 5G and Block-Chain Technologies in Smart Telemedicine Using IoT. Journal of Healthcare Engineering, 2021, 2021, 1-18.	1.9	33
13	An Intelligent Analytics Approach to Minimize Complexity in Ambiguous Software Requirements. Scientific Programming, 2021, 2021, 1-20.	0.7	3
14	Natural language ambiguity resolution by intelligent semantic annotation of software requirements. Automated Software Engineering, 2021, 28, 1.	2.9	1
15	IOT-Based Cotton Whitefly Prediction Using Deep Learning. Scientific Programming, 2021, 2021, 1-17.	0.7	5
16	Smart eNose Food Waste Management System. Journal of Sensors, 2021, 2021, 1-13.	1.1	13
17	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
18	IoT Healthcare: Design of Smart and Cost-Effective Sleep Quality Monitoring System. Journal of Sensors, 2020, 2020, 1-17.	1.1	40

#	ARTICLE	IF	CITATIONS
19	An Intelligent IoT Based Healthcare System Using Fuzzy Neural Networks. Scientific Programming, 2020, 2020, 1-15.	0.7	37
20	An Intelligent Fire Warning Application Using IoT and an Adaptive Neuro-Fuzzy Inference System. Sensors, 2019, 19, 3150.	3.8	52
21	An Intelligent Air Quality Sensing System for Open-Skin Wound Monitoring. Electronics (Switzerland), 2019, 8, 801.	3.1	6
22	Requirements to Class Model via SBVR. International Journal of Open Source Software and Processes, 2019, 10, 70-87.	0.6	2
23	An Intelligent and Smart Environment Monitoring System for Healthcare. Applied Sciences (Switzerland), 2019, 9, 4172.	2.5	7
24	A Neural Network-Inspired Approach for Improved and True Movie Recommendations. Computational Intelligence and Neuroscience, 2019, 2019, 1-19.	1.7	17
25	An IoT-Based Intelligent Wound Monitoring System. IEEE Access, 2019, 7, 144500-144515.	4.2	33
26	Design and Implementation of a Machine Learning-Based Authorship Identification Model. Scientific Programming, 2019, 2019, 1-14.	0.7	13
27	A smart integrated environment for vehicular traffic simulation. International Journal of Communication Systems, 2019, 32, e4029.	2.5	3
28	An intelligent and secure smart watering system using fuzzy logic and blockchain. Computers and Electrical Engineering, 2019, 77, 109-119.	4.8	96
29	Intelligent Data Engineering for Migration to NoSQL Based Secure Environments. IEEE Access, 2019, 7, 69042-69057.	4.2	17
30	Challenges in NoSQL-Based Distributed Data Storage: A Systematic Literature Review. Electronics (Switzerland), 2019, 8, 488.	3.1	10
31	Design and Development of a Large Cross-Lingual Plagiarism Corpus for Urdu-English Language Pair. Scientific Programming, 2019, 2019, 1-11.	0.7	7
32	Parsing RDFs to Extract Object Oriented Model Using Apache Jena. Communications in Computer and Information Science, 2019, , 119-129.	0.5	0
33	Generating SBVR-XML Representation of a Controlled Natural Language. Communications in Computer and Information Science, 2019, , 379-390.	0.5	2
34	An Intelligent Data Analysis for Recommendation Systems Using Machine Learning. Scientific Programming, 2019, 2019, 1-20.	0.7	49
35	Smart Wound Hydration Monitoring Using Biosensors and Fuzzy Inference System. Wireless Communications and Mobile Computing, 2019, 2019, 1-15.	1.2	26
36	Handling Semantic Complexity of Big Data using Machine Learning and RDF Ontology Model. Symmetry, 2019, 11, 309.	2.2	2

#	ARTICLE	IF	CITATIONS
37	An Empirical Study on Forensic Analysis of Urdu Text Using LDA-Based Authorship Attribution. IEEE Access, 2019, 7, 3224-3234.	4.2	23
38	Relational Database to Resource Description Framework and Its Schema. Communications in Computer and Information Science, 2019, , 604-617.	0.5	2
39	An Intelligent Approach for Handling Complexity by Migrating from Conventional Databases to Big Data. Symmetry, 2018, 10, 698.	2.2	7
40	Effect of IoT Capabilities and Energy Consumption behavior on Green Supply Chain Integration. Applied Sciences (Switzerland), 2018, 8, 2481.	2.5	43
41	Design and Application of a Multi-Variant Expert System Using Apache Hadoop Framework. Sustainability, 2018, 10, 4280.	3.2	12
42	Design and Application of Fuzzy Logic Based Fire Monitoring and Warning Systems for Smart Buildings. Symmetry, 2018, 10, 615.	2.2	35
43	A Fuzzy Logic Based Intelligent System for Measuring Customer Loyalty and Decision Making. Symmetry, 2018, 10, 761.	2.2	19
44	Design and Implementation of an IoT System for Smart Energy Consumption and Smart Irrigation in Tunnel Farming. Energies, 2018, 11, 3427.	3.1	56
45	A Semi Supervised Approach for Catchphrase Classification in Legal Text Documents. Journal of Computers, 2017, , 451-461.	0.4	3
46	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
47	Markov Logic Based Inference Engine for CDSS. Mehran University Research Journal of Engineering and Technology, 2017, 36, 55-66.	0.6	2
48	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
49	Lexicon-based sentiment analysis for Urdu language. , 2016, , .		24
50	Generating UML activity diagram from SBVR rules. , 2016, , .		10
51	Producing BPEL models from text. , 2016, , .		1
52	A Cached-based approach to enrich Stream data with master data. , 2015, , .		1
53	A Cache-Based Semi-Stream Join to deal with Unmatched Stream Data. Lecture Notes in Computer Science, 2015, , 54-65.	1.3	0
54	A model transformation from NL to SBVR. , 2014, , .		8

#	ARTICLE	IF	CITATIONS
55	Natural language processing based interpretation of skewed graphs. , 2014, , .		0
56	Automated DD-path testing: A challenging task in software testing. , 2014, , .		0
57	OCL usability: a major challenge in adopting UML. , 2014, , .		1
58	Automatic Extraction of Catchphrases from Software License Agreement. , 2014, , .		2
59	An Automated Approach for Interpretation of Statistical Graphics. , 2014, , .		5
60	Teeter-totter in testing. , 2013, , .		1
61	Quantifiers Types Resolution in NL Software Requirements. , 2013, , .		0
62	Prediction of minerals in rock images using Markov logic. , 2013, , .		0
63	Automated analysis of logical connectives in business constraints. , 2013, , .		1
64	Scope resolution of logical connectives in NL constraints. , 2013, , .		1
65	A study on trends of mobile application usage and their distribution methods in Pakistan. , 2013, , .		1
66	Automatic event recognition and annotation in business requirement specifications. , 2013, , .		0
67	Welcome message from the chairs. , 2013, , .		0
68	Virtual Telemedicine and Virtual Telehealth. , 2013, , 881-892.		3
69	Generating OLAP queries from natural language specification. , 2012, , .		5
70	Resource optimization for processing of stream data in data warehouse environment. , 2012, , .		1
71	On a chain of transformations for generating alloy from NL constraints. , 2012, , .		4
72	Translating natural language constraints to OCL. Journal of King Saud University - Computer and Information Sciences, 2012, 24, 117-128.	3.9	11

#	ARTICLE	IF	CITATIONS
73	A Novel Approach for Automatic Generation of UML Class Diagrams from XML. Communications in Computer and Information Science, 2012, , 164-175.	0.5	2
74	Resolving Syntactic Ambiguities in Natural Language Specification of Constraints. Lecture Notes in Computer Science, 2012, , 178-187.	1.3	16
75	From Natural Language Software Specifications to UML Class Models. Lecture Notes in Business Information Processing, 2012, , 224-237.	1.0	10
76	Interacting with Data Warehouse by Using a Natural Language Interface. Lecture Notes in Computer Science, 2012, , 372-377.	1.3	7
77	Virtual Telemedicine and Virtual Telehealth. , 2012, , 183-195.		0
78	Generating Class Models Using Binary Space Partition Algorithm. Studies in Computational Intelligence, 2012, , 1-13.	0.9	1
79	A virtual telehealth framework: Applications and technical considerations. , 2011, , .		8
80	SBVR2UML: A Challenging Transformation. , 2011, , .		13
81	SBVR vs OCL: A comparative analysis of standards. , 2011, , .		9
82	A hash-based approach for colour image steganography. , 2011, , .		10
83	A new perfect hashing based approach for secure stegnograph. , 2011, , .		6
84	Clinical Decision Support System Based Virtual Telemedicine. , 2011, , .		17
85	NL-Based Automated Software Requirements Elicitation and Specification. Communications in Computer and Information Science, 2011, , 30-39.	0.5	15
86	Minimizing ambiguity in natural language software requirements specification. , 2011, , .		25
87	OCL Constraints Generation from Natural Language Specification. , 2010, , .		61
88	Virtual Telemedicine Using Natural Language Processing. International Journal of Information Technology and Web Engineering, 2010, 5, 43-55.	1.6	12
89	Context Based Meaning Extraction by Means of Markov Logic. International Journal of Computer Theory and Engineering, 2010, , 35-38.	3.4	4
90	BPM Meeting with SOA: A Customized Solution for Small Business Enterprises. , 2009, , .		8

#	ARTICLE	IF	CITATIONS
91	RSR-ARQ Mechanism for Unreliable Data Communication in GPRS. , 2008, , .		0
92	UCD-generator - a LESSA application for use case design. , 2007, , .		14
93	Rule based Production Systems for Automatic Code Generation in Java. , 2007, , .		4
94	Automatic Functional Brain MR Image Segmentation using Region Growing and Seed Pixel. , 2006, , .		8
95	A Conceptual Framework for Earthquake Disaster Management System (EDMS) for Quetta City using GIS. , 2006, , .		4
96	Automatic Domain Specific Terminology Extraction using a Decision Support System. , 2006, , .		1
97	Web Layout Mining (WLM): A New Paradigm for Intelligent Web Layout Design. , 2006, , .		3
98	A Study for Prediction of Minerals in Rock Images using Back Propagation Neural Networks. , 2006, , .		2
99	PCA based image classification of single-layered cloud types. , 0, , .		5
100	A Language Engineering System for Graphical User Interface Design (LESGUID): A Rule based Approach. , 0, , .		4
101	Requirements Elicitation Methods. Advanced Materials Research, 0, 433-440, 6000-6006.	0.3	4