

# Muhammad Afzal

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

876  
citations

566801

15  
h-index

580395

25  
g-index

77  
all docs

77  
docs citations

77  
times ranked

950  
citing authors

#	ARTICLE	IF	CITATIONS
1	Model-based adaptive user interface based on context and user experience evaluation. Journal on Multimodal User Interfaces, 2018, 12, 1-16.	2.0	81
2	Multimodal hybrid reasoning methodology for personalized wellbeing services. Computers in Biology and Medicine, 2016, 69, 10-28.	3.9	44
3	An Adaptive Semantic based Mediation System for Data Interoperability among Health Information Systems. Journal of Medical Systems, 2014, 38, 28.	2.2	42
4	The Mining Minds digital health and wellness framework. BioMedical Engineering OnLine, 2016, 15, 76.	1.3	42
5	Cloud-based Smart CDSS for chronic diseases. Health and Technology, 2013, 3, 153-175.	2.1	38
6	Ontology Based Multiagent Effort Estimation System for Scrum Agile Method. IEEE Access, 2017, 5, 25993-26005.	2.6	32
7	Knowledge-based reasoning and recommendation framework for intelligent decision making. Expert Systems, 2018, 35, e12242.	2.9	29
8	Exploring the dominant features of social media for depression detection. Journal of Information Science, 2020, 46, 739-759.	2.0	29
9	Personalization of wellness recommendations using contextual interpretation. Expert Systems With Applications, 2018, 96, 506-521.	4.4	28
10	A Multimodal Deep Log-Based User Experience (UX) Platform for UX Evaluation. Sensors, 2018, 18, 1622.	2.1	27
11	Precision Medicine Informatics: Principles, Prospects, and Challenges. IEEE Access, 2020, 8, 13593-13612.	2.6	26
12	Clinical Context-Aware Biomedical Text Summarization Using Deep Neural Network: Model Development and Validation. Journal of Medical Internet Research, 2020, 22, e19810.	2.1	22
13	Process interoperability in healthcare systems with dynamic semantic web services. Computing (Vienna/New York), 2013, 95, 837-862.	3.2	20
14	Mining Minds: an innovative framework for personalized health and wellness support. , 2015, , .		20
15	Autonomous mapping of HL7 RIM and relational database schema. Information Systems Frontiers, 2012, 14, 5-18.	4.1	17
16	Data-driven knowledge acquisition, validation, and transformation into HL7 Arden Syntax. Artificial Intelligence in Medicine, 2018, 92, 51-70.	3.8	17
17	Knowledge-Based Query Construction Using the CDSS Knowledge Base for Efficient Evidence Retrieval. Sensors, 2015, 15, 21294-21314.	2.1	16
18	Impact minimization of requirements change in software project through requirements classification. , 2015, , .		16

#	ARTICLE	IF	CITATIONS
19	Context-aware grading of quality evidences for evidence-based decision-making. Health Informatics Journal, 2019, 25, 429-445.	1.1	16
20	Recommendations Service for Chronic Disease Patient in Multimodel Sensors Home Environment. Telemedicine Journal and E-Health, 2015, 21, 185-199.	1.6	15
21	Multi-model-based interactive authoring environment for creating shareable medical knowledge. Computer Methods and Programs in Biomedicine, 2017, 150, 41-72.	2.6	15
22	Comprehensible knowledge model creation for cancer treatment decision making. Computers in Biology and Medicine, 2017, 82, 119-129.	3.9	14
23	Smart CDSS for Smart Homes. Lecture Notes in Computer Science, 2012, , 266-269.	1.0	14
24	SNS Based Predictive Model for Depression. Lecture Notes in Computer Science, 2015, , 349-354.	1.0	13
25	Personalized-Detailed Clinical Model for Data Interoperability Among Clinical Standards. Telemedicine Journal and E-Health, 2013, 19, 632-642.	1.6	12
26	Representing Social Network Patient Data as Evidence-Based Knowledge to Support Decision Making in Disease Progression for Comorbidities. IEEE Access, 2018, 6, 12951-12965.	2.6	12
27	The Intelligent Medical Platform: A Novel Dialogue-Based Platform for Health-Care Services. Computer, 2020, 53, 35-45.	1.2	12
28	Authoring tool: Acquiring sharable knowledge for Smart CDSS. , 2013, 2013, 1278-81.		11
29	Geo-Social Top-k and Skyline Keyword Queries on Road Networks. Sensors, 2020, 20, 798.	2.1	11
30	Making science computable: Developing code systems for statistics, study design, and risk of bias. Journal of Biomedical Informatics, 2021, 115, 103685.	2.5	11
31	Adaptive User Interface and User Experience Based Authoring Tool for Recommendation Systems. Lecture Notes in Computer Science, 2014, , 136-142.	1.0	10
32	Clinical Decision Support Service for elderly people in smart home environment. , 2012, , .		8
33	Minimizing big data problems using cloud computing based on Hadoop architecture. , 2014, , .		8
34	Impact of Automatic Query Generation and Quality Recognition Using Deep Learning to Curate Evidence From Biomedical Literature: Empirical Study. JMIR Medical Informatics, 2019, 7, e13430.	1.3	8
35	Digital health care ecosystem: SOA compliant HL7 based health care information interchange. , 2009, , .		7
36	Healthcare standards based sensory data exchange for Home Healthcare Monitoring System. , 2012, 2012, 1274-7.		7

#	ARTICLE	IF	CITATIONS
37	Smart Extraction and Analysis System for Clinical Research. Telemedicine Journal and E-Health, 2017, 23, 404-420.	1.6	7
38	Use of mind maps and iterative decision trees to develop a guideline-based clinical decision support system for routine surgical practice: case study in thyroid nodules. Journal of the American Medical Informatics Association: JAMIA, 2019, 26, 524-536.	2.2	7
39	Semantic preservation of standardized healthcare documents in big data. International Journal of Medical Informatics, 2019, 129, 133-145.	1.6	7
40	Deep Learning Based Biomedical Literature Classification Using Criteria of Scientific Rigor. Electronics (Switzerland), 2020, 9, 1253.	1.8	7
41	Social media canonicalization in healthcare: Smart CDSS as an exemplary application. , 2012, , .		6
42	KnowledgeButton: An evidence adaptive tool for CDSS and clinical research. , 2014, , .		6
43	Object-oriented and ontology-alignment patterns-based expressive Mediation Bridge Ontology (MBO). Journal of Information Science, 2015, 41, 296-314.	2.0	6
44	A hybrid knowledge and ensemble classification approach for prediction of venous thromboembolism. Expert Systems, 2020, 37, e12388.	2.9	6
45	Comparative Analysis of Semantic Similarity Techniques for Medical Text. , 2020, , .		6
46	Cardiovascular Care in the Era of Machine Learning enabled Personalized Medicine. , 2020, , .		6
47	Clinical Concept Extraction with Lexical Semantics to Support Automatic Annotation. International Journal of Environmental Research and Public Health, 2021, 18, 10564.	1.2	6
48	User Experience Quantification Model from Online User Reviews. Applied Sciences (Switzerland), 2022, 12, 6700.	1.3	6
49	Correlating health and wellness analytics for personalized decision making. , 2015, , .		5
50	Customized clinical domain ontology extraction for knowledge authoring tool. , 2014, , .		4
51	Ontology-Oriented Software Effort Estimation System for E-commerce Applications Based on Extreme Programming and Scrum Methodologies. Computer Journal, 2019, 62, 1605-1624.	1.5	4
52	Clinical Decision Support System Based on Hybrid Knowledge Modeling: A Case Study of Chronic Kidney Disease-Mineral and Bone Disorder Treatment. International Journal of Environmental Research and Public Health, 2022, 19, 226.	1.2	4
53	Healthcare Applications Interoperability through Implementation of HL7 Web Service Basic Profile. , 2009, , .		3
54	Trusted Framework for Health Information Exchange. , 2011, , .		3

#	ARTICLE	IF	CITATIONS
55	Design and Implementation of HL7 V3 Standard-Based Service Aware System. , 2011, , .		3
56	Arden syntax studio: Creating medical logic module as shareable knowledge. , 2014, , .		3
57	Clinically Harmonized Wellness Concepts Model for Health and Wellness Services. IEEE Access, 2018, 6, 26660-26674.	2.6	3
58	Automatic Identification of High Impact Relevant Articles to Support Clinical Decision Making Using Attention-Based Deep Learning. Electronics (Switzerland), 2020, 9, 1364.	1.8	3
59	Acquiring guideline-enabled data driven clinical knowledge model using formally verified refined knowledge acquisition method. Computer Methods and Programs in Biomedicine, 2020, 197, 105701.	2.6	3
60	MLM-Based Automated Query Generation for CDSS Evidence Support. Lecture Notes in Computer Science, 2014, , 296-299.	1.0	3
61	Meaningful Integration of Online Knowledge Resources with Clinical Decision Support System. Lecture Notes in Computer Science, 2013, , 280-285.	1.0	2
62	Redesign of Clinical Decision Systems to Support Precision Medicine. , 2018, , .		2
63	AdapteR Interoperability ENgine (ARIEN): An approach of Interoperable CDSS for Ubiquitous Healthcare. Lecture Notes in Computer Science, 2013, , 247-253.	1.0	2
64	Optimization of dynamic performance of WAPDA power system using excitation systems. , 2008, , .		1
65	Mapping integrating the healthcare environment (IHE) to business process execution language for people (BPEL 4PPL). , 2009, , .		1
66	Integration of HL7 Compliant Smart Home Healthcare System and HMIS. Lecture Notes in Computer Science, 2012, , 230-233.	1.0	1
67	Efficient metadata loading algorithm for generation and parsing of health level 7 version 3 messages. , 2009, , .		0
68	A novel approach to super quality software development using workflows. , 2016, , .		0
69	Relevant evidence acquisition and appraisal using knowledge-intensive queries. , 2016, , .		0
70	Relevant evidence acquisition and appraisal using knowledge-intensive queries. , 2016, , .		0
71	Identifying Driver Genes Mutations with Clinical Significance in Thyroid Cancer. Computers, Materials and Continua, 2021, 67, 1241-1251.	1.5	0
72	COVID-19 Knowledge Resource Categorization and Tracking: Conceptual Framework Study. Journal of Medical Internet Research, 2021, 23, e29730.	2.1	0