

# Arash Shaban-Nejad

## List of Publications by Year in descending order

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Version: 2024-02-01

98  
papers

1,117  
citations

516215

16  
h-index

525886

27  
g-index

114  
all docs

114  
docs citations

114  
times ranked

789  
citing authors

#	ARTICLE	IF	CITATIONS
1	Health intelligence: how artificial intelligence transforms population and personalized health. Npj Digital Medicine, 2018, 1, 53.	5.7	115
2	Addressing Parental Vaccine Hesitancy and Other Barriers to Childhood/Adolescent Vaccination Uptake During the Coronavirus (COVID-19) Pandemic. Frontiers in Immunology, 2021, 12, 663074.	2.2	98
3	Public sentiment analysis and topic modeling regarding COVID-19 vaccines on the Reddit social media platform: A call to action for strengthening vaccine confidence. Journal of Infection and Public Health, 2021, 14, 1505-1512.	1.9	96
4	PopHR: a knowledge-based platform to support integration, analysis, and visualization of population health data. Annals of the New York Academy of Sciences, 2017, 1387, 44-53.	1.8	64
5	Sociomarkers and biomarkers: predictive modeling in identifying pediatric asthma patients at risk of hospital revisits. Npj Digital Medicine, 2018, 1, 50.	5.7	47
6	Explainable Artificial Intelligence Recommendation System by Leveraging the Semantics of Adverse Childhood Experiences: Proof-of-Concept Prototype Development. JMIR Medical Informatics, 2020, 8, e18752.	1.3	34
7	Semantic web infrastructure for fungal enzyme biotechnologists. Web Semantics, 2006, 4, 168-180.	2.2	31
8	Seven pillars of precision digital health and medicine. Artificial Intelligence in Medicine, 2020, 103, 101793.	3.8	31
9	Predicting Intensive Care Unit Length of Stay and Mortality Using Patient Vital Signs: Machine Learning Model Development and Validation. JMIR Medical Informatics, 2021, 9, e21347.	1.3	31
10	Guest Editorial Explainable AI: Towards Fairness, Accountability, Transparency and Trust in Healthcare. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2374-2375.	3.9	29
11	Using a Personal Health Library-Enabled mHealth Recommender System for Self-Management of Diabetes Among Underserved Populations: Use Case for Knowledge Graphs and Linked Data. JMIR Formative Research, 2021, 5, e24738.	0.7	25
12	An Urban Population Health Observatory System to Support COVID-19 Pandemic Preparedness, Response, and Management: Design and Development Study. JMIR Public Health and Surveillance, 2021, 7, e28269.	1.2	24
13	Urban Decay and Pediatric Asthma Prevalence in Memphis, Tennessee: Urban Data Integration for Efficient Population Health Surveillance. IEEE Access, 2018, 6, 46281-46289.	2.6	23
14	Social Determinants and Indicators of COVID-19 Among Marginalized Communities: A Scientific Review and Call to Action for Pandemic Response and Recovery. Disaster Medicine and Public Health Preparedness, 2023, 17, 1-28.	0.7	23
15	A Malaria Analytics Framework to Support Evolution and Interoperability of Global Health Surveillance Systems. IEEE Access, 2017, 5, 21605-21619.	2.6	20
16	Adverse Childhood Experiences Ontology for Mental Health Surveillance, Research, and Evaluation: Advanced Knowledge Representation and Semantic Web Techniques. JMIR Mental Health, 2019, 6, e13498.	1.7	20
17	Explainability and Interpretability: Keys to Deep Medicine. Studies in Computational Intelligence, 2021, , 1-10.	0.7	19
18	Semantic querying of relational data for clinical intelligence: a semantic web services-based approach. Journal of Biomedical Semantics, 2013, 4, 9.	0.9	18

#	ARTICLE	IF	CITATIONS
19	From Cues to Nudge: A Knowledge-Based Framework for Surveillance of Healthcare-Associated Infections. <i>Journal of Medical Systems</i> , 2016, 40, 23.	2.2	18
20	Geo-clustered chronic affinity: pathways from socio-economic disadvantages to health disparities. <i>JAMIA Open</i> , 2019, 2, 317-322.	1.0	18
21	Association of Maternal Social Relationships With Cognitive Development in Early Childhood. <i>JAMA Network Open</i> , 2019, 2, e186963.	2.8	14
22	Health Intervention Evaluation Using Semantic Explainability and Causal Reasoning. <i>IEEE Access</i> , 2020, 8, 9942-9952.	2.6	14
23	The FungalWeb Ontology: Semantic Web Challenges in Bioinformatics and Genomics. <i>Lecture Notes in Computer Science</i> , 2005, , 1063-1066.	1.0	14
24	A Surveillance Infrastructure for Malaria Analytics: Provisioning Data Access and Preservation of Interoperability. <i>JMIR Public Health and Surveillance</i> , 2018, 4, e10218.	1.2	14
25	An infrastructure for real-time population health assessment and monitoring. <i>IBM Journal of Research and Development</i> , 2012, 56, 2:1-2:11.	3.2	13
26	An Innovative Approach to Addressing Childhood Obesity: A Knowledge-Based Infrastructure for Supporting Multi-Stakeholder Partnership Decision-Making in Quebec, Canada. <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 1314-1333.	1.2	12
27	COPE: Childhood Obesity Prevention [Knowledge] Enterprise. <i>Lecture Notes in Computer Science</i> , 2011, , 225-229.	1.0	11
28	Precision Clinical Medicine Through Machine Learning: Using High and Low Quantile Ranges of Vital Signs for Risk Stratification of ICU Patients. <i>IEEE Access</i> , 2022, 10, 52418-52430.	2.6	10
29	Managing changes in distributed biomedical ontologies using hierarchical distributed graph transformation. <i>International Journal of Data Mining and Bioinformatics</i> , 2015, 11, 53.	0.1	9
30	Incremental Biomedical Ontology Change Management through Learning Agents. , 2008, , 526-535.		9
31	Network Analysis of COVID-19 Vaccine Misinformation on Social Media. <i>Studies in Health Technology and Informatics</i> , 2021, 287, 165-166.	0.2	9
32	Addressing the challenge of encoding causal epidemiological knowledge in formal ontologies: a practical perspective. <i>Studies in Health Technology and Informatics</i> , 2014, 205, 1125-9.	0.2	9
33	An OWL 2-Based Knowledge Platform Combining the Social and Semantic Webs for an Ambient Childhood Obesity Prevention System. <i>Procedia Computer Science</i> , 2012, 10, 110-119.	1.2	8
34	Vaccine attitude surveillance using semantic analysis. , 2013, , .		8
35	Online Public Health Intelligence: Ethical Considerations at the Big Data Era. <i>Lecture Notes in Social Networks</i> , 2017, , 129-148.	0.8	8
36	Bio-medical Ontologies Maintenance and Change Management. <i>Studies in Computational Intelligence</i> , 2009, , 143-168.	0.7	8

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37	The Personal Health Library: A Single Point of Secure Access to Patient Digital Health Information. <i>Studies in Health Technology and Informatics</i> , 2020, 270, 448-452.	0.2	8
38	Managing Requirement Volatility in an Ontology-Driven Clinical LIMS Using Category Theory. <i>International Journal of Telemedicine and Applications</i> , 2009, 2009, 1-14.	1.1	7
39	A Digital Personal Health Library for Enabling Precision Health Promotion to Prevent Human Papilloma Virus-Associated Cancers. <i>Frontiers in Digital Health</i> , 2021, 3, 683161.	1.5	7
40	Implementing an Urban Public Health Observatory for (Near) Real-Time Surveillance for the COVID-19 Pandemic. <i>Studies in Health Technology and Informatics</i> , 2020, 275, 22-26.	0.2	7
41	Towards clinical intelligence with SADI semantic web services. , 2011, , .		6
42	SimPHO: An ontology for simulation modeling of population health. , 2012, , .		6
43	Social Disparities of Pain and Pain Intensity Among Women Diagnosed With Early Stage Breast Cancer. <i>Frontiers in Oncology</i> , 2022, 12, 759272.	1.3	6
44	History Repeatingâ€”How Pandemics Collide with Health Disparities in the United States. <i>Journal of Racial and Ethnic Health Disparities</i> , 2023, 10, 1455-1465.	1.8	6
45	A Hybrid Recommender System to Guide Assessment and Surveillance of Adverse Childhood Experiences. <i>Studies in Health Technology and Informatics</i> , 2019, 262, 332-335.	0.2	5
46	A Semantic Framework for Logical Cross-Validation, Evaluation and Impact Analyses of Population Health Interventions. <i>Studies in Health Technology and Informatics</i> , 2017, 235, 481-485.	0.2	5
47	Analyzing Relationships Between Economic and Neighborhood-Related Social Determinants of Health and Intensive Care Unit Length of Stay for Critically Ill Children With Medical Complexity Presenting With Severe Sepsis. <i>Frontiers in Public Health</i> , 2022, 10, 789999.	1.3	5
48	Towards a framework for requirement change management in healthcare software applications. , 2007, , .		4
49	Applied Graph Transformation and Verification With Use Cases in Malaria Surveillance. <i>IEEE Access</i> , 2018, 6, 64728-64741.	2.6	4
50	Categorical Representation of Evolving Structure of an Ontology for Clinical Fungus. <i>Lecture Notes in Computer Science</i> , 2007, , 277-286.	1.0	4
51	PHIO: a knowledge base for interpretation and calculation of public health indicators. <i>Studies in Health Technology and Informatics</i> , 2013, 192, 1207.	0.2	4
52	Disparities in Population-Level Socio-Economic Factors Are Associated with Disparities in Preoperative Clinical Risk Factors in Children. <i>Studies in Health Technology and Informatics</i> , 2018, 255, 80-84.	0.2	4
53	An enhanced graph-oriented approach for change management in distributed biomedical ontologies and linked data. , 2011, , .		3
54	A Data Science Approach to Analyze the Association of Socioeconomic and Environmental Conditions With Disparities in Pediatric Surgery. <i>Frontiers in Pediatrics</i> , 2021, 9, 620848.	0.9	3

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55	System of Indicators for the Nutritional Quality of Marketing and Food Environment: Product Quality, Availability, Affordability, and Promotion. , 2013, , 383-396.		3
56	Applied Network Science for Relational Chronic Disease Surveillance. Studies in Health Technology and Informatics, 2019, 262, 336-339.	0.2	3
57	Integrated Disease Surveillance to Reduce Data Fragmentation “ An Application to Malaria Control. Online Journal of Public Health Informatics, 2015, 7, .	0.4	3
58	Knowledge-based surveillance for preventing postoperative surgical site infection. Studies in Health Technology and Informatics, 2011, 169, 145-9.	0.2	3
59	An Ontological Framework to Improve Surveillance of Adverse Childhood Experiences (ACEs). Studies in Health Technology and Informatics, 2019, 258, 31-35.	0.2	3
60	UPHO: Leveraging an Explainable Multimodal Big Data Analytics Framework for COVID-19 Surveillance and Research. , 2021, , .		3
61	Examining the Implementation of Digital Health to Strengthen the COVID-19 Pandemic Response and Recovery and Scale up Equitable Vaccine Access in African Countries. JMIR Formative Research, 2022, 6, e34363.	0.7	3
62	Managing Conceptual Revisions in a Temporal Fungal Taxonomy. Proceedings of the IEEE Symposium on Computer-Based Medical Systems, 2007, , .	0.0	2
63	Ontology-inferred phylogeny reconstruction for analyzing the evolutionary relationships between species: Ontological inference versus cladistics. , 2008, , .		2
64	HAIKU: A Semantic Framework for Surveillance of Healthcare-Associated Infections. Procedia Computer Science, 2012, 10, 1073-1079.	1.2	2
65	Reports of the Workshops of the Thirty-First AAAI Conference on Artificial Intelligence. AI Magazine, 2017, 38, 72-82.	1.4	2
66	Public Health Intelligence and the Internet: Current State of the Art. Lecture Notes in Social Networks, 2017, , 1-17.	0.8	2
67	Exploring Semantic Data Federation to Enable Malaria Surveillance Queries. Studies in Health Technology and Informatics, 2018, 247, 6-10.	0.2	2
68	Geo-Distinctive Comorbidity Networks of Pediatric Asthma. Studies in Health Technology and Informatics, 2018, 247, 436-440.	0.2	2
69	SPACES: Explainable Multimodal AI for Active Surveillance, Diagnosis, and Management of Adverse Childhood Experiences (ACEs). , 2021, , .		2
70	An abstract representation model for evolutionary analysis of multi-agent interactions. , 2011, , .		1
71	Reports of the AAAI 2014 Conference Workshops. AI Magazine, 2015, 36, 87-98.	1.4	1
72	Reports of the 2016 AAAI Workshop Program. AI Magazine, 2016, 37, 99-108.	1.4	1

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73	Reports of the Workshops of the 32nd AAAI Conference on Artificial Intelligence. AI Magazine, 2018, 39, 45-56.	1.4	1
74	Health intelligence. , 2020, , 197-215.		1
75	HemPHL: A Personal Health Library and mHealth Recommender to Promote Self-Management of Hemophilia. Studies in Health Technology and Informatics, 2021, 281, 550-554.	0.2	1
76	Proving the Correctness of Knowledge Graph Update: A Scenario From Surveillance of Adverse Childhood Experiences. Frontiers in Big Data, 2021, 4, 660101.	1.8	1
77	A Semantic Platform for Surveillance of Adverse Childhood Experiences. Online Journal of Public Health Informatics, 2019, 11, .	0.4	1
78	Strategic Health Information Management and Forecast: The Birdwatching Approach. Lecture Notes in Computer Science, 2010, , 457-468.	1.0	1
79	Human Factors in Dynamic E-Health Systems and Digital Libraries. , 2010, , 192-203.		1
80	A Semantic Web Platform for Online Vaccine Sentiment Surveillance. Online Journal of Public Health Informatics, 2015, 7, .	0.4	1
81	A Semantic Framework to Improve Interoperability of Malaria Surveillance Systems. Online Journal of Public Health Informatics, 2018, 10, .	0.4	1
82	Multimorbidity Network Surveillance: Chronic Disease Clusters and Social Disparities. Online Journal of Public Health Informatics, 2019, 11, .	0.4	1
83	Semantic Web Infrastructure for Fungal Enzyme Biotechnologists. SSRN Electronic Journal, 2006, , .	0.4	0
84	An ontology-empowered model for annotating protein-protein interaction data: a case study for budding yeast. , 2008, , .		0
85	Web-based dynamic learning through lexical chaining. , 2008, , .		0
86	A knowledge-based architecture for integrating and interpreting population health data. , 2012, , .		0
87	Reports on the 2015 AAAI Workshop Program. AI Magazine, 2015, 36, 90-101.	1.4	0
88	Categorical Representation. , 2012, , 515-517.		0
89	Identifying Sociomarkers of Pediatric Asthma Patients at Risk of Hospital Revisiting. Online Journal of Public Health Informatics, 2018, 10, .	0.4	0
90	Reports of the Workshops Held at the 2019 AAAI Conference on Artificial Intelligence. AI Magazine, 2019, 40, 67-78.	1.4	0

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91	The Association for the Advancement of Artificial Intelligence 2020 Workshop Program. AI Magazine, 2020, 41, 100-114.	1.4	0
92	Food Deserts Are Associated with Acute Care Utilization Among Preschool Children with Sickle Cell Disease. Blood, 2020, 136, 19-19.	0.6	0
93	Abstract PO-115: Defining radiation treatment quality disparities in the COVID-19 Era. , 2022, , .		0
94	POLE.VAULT: A Semantic Framework for Health Policy Evaluation and Logical Testing. Studies in Health Technology and Informatics, 2017, 245, 1335.	0.2	0
95	516: SOCIAL DETERMINANTS OF HEALTH IMPACT HOSPITAL LENGTH OF STAY FOR CHILDREN WITH SEVERE SEPSIS. Critical Care Medicine, 2022, 50, 249-249.	0.4	0
96	Semantic Web of Things (SWoT) for Global Infectious Disease Control and Prevention. Studies in Health Technology and Informatics, 2020, 272, 425-428.	0.2	0
97	Sentiment Analysis of the Covid-19 Vaccines on Social Media. Studies in Health Technology and Informatics, 2022, , .	0.2	0
98	Utilization of Digital Health Dashboards in Improving COVID-19 Vaccination Uptake, Accounting for Health Inequities. Studies in Health Technology and Informatics, 2022, , .	0.2	0