Carlos SÃ¡ez

List of Publications by Year
in descending order

40 papers	489 citations	759055 12 h-index	839398 18 g-index
50 all docs	50 docs citations	50 times ranked	626 citing authors

#	Article	IF	Citations
1	Potential limitations in COVID-19 machine learning due to data source variability: A case study in the nCov2019 dataset. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 360-364.	2.2	44
2	Applying probabilistic temporal and multisite data quality control methods to a public health mortality registry in Spain: a systematic approach to quality control of repositories. Journal of the American Medical Informatics Association: JAMIA, 2016, 23, 1085-1095.	2.2	37
3	Smart Pharmaceutical Manufacturing: Ensuring End-to-End Traceability and Data Integrity in Medicine Production. Big Data Research, 2021, 24, 100172.	2.6	36
4	An HL7-CDA wrapper for facilitating semantic interoperability to rule-based Clinical Decision Support Systems. Computer Methods and Programs in Biomedicine, 2013, 109, 239-249.	2.6	32
5	Stability metrics for multi-source biomedical data based on simplicial projections from probability distribution distances. Statistical Methods in Medical Research, 2017, 26, 312-336.	0.7	26
6	Kinematics of Big Biomedical Data to characterize temporal variability and seasonality of data repositories: Functional Data Analysis of data temporal evolution over non-parametric statistical manifolds. International Journal of Medical Informatics, 2018, 119, 109-124.	1.6	24
7	Robust association between vascular habitats and patient prognosis in glioblastoma: An international multicenter study. Journal of Magnetic Resonance Imaging, 2020, 51, 1478-1486.	1.9	24
8	EHRtemporalVariability: delineating temporal data-set shifts in electronic health records. GigaScience, 2020, 9, .	3.3	22
9	An Adaptive Security Model for Multi-agent Systems and Application to a Clinical Trials Environment. Proceedings - IEEE Computer Society's International Computer Software and Applications Conference, 2007, , .	0.0	19
10	Probabilistic change detection and visualization methods for the assessment of temporal stability in biomedical data quality. Data Mining and Knowledge Discovery, 2015, 29, 950-975.	2.4	19
11	Compatibility between 3T¹H SV-MRS data and automatic brain tumour diagnosis support systems based on databases of 1.5T 1H SV-MRS spectra. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2011, 24, 35-42.	1.1	18
12	Organizing data quality assessment of shifting biomedical data. Studies in Health Technology and Informatics, 2012, 180, 721-5.	0.2	15
13	Data-driven discovery of changes in clinical code usage over time: a case-study on changes in cardiovascular disease recording in two English electronic health records databases (2001–2015). BMJ Open, 2020, 10, e034396.	0.8	12
14	Quality of Hospital Electronic Health Record (EHR) Data Based on the International Consortium for Health Outcomes Measurement (ICHOM) in Heart Failure: Pilot Data Quality Assessment Study. JMIR Medical Informatics, 2021, 9, e27842.	1.3	12
15	Deep ensemble multitask classification of emergency medical call incidents combining multimodal data improves emergency medical dispatch. Artificial Intelligence in Medicine, 2021, 117, 102088.	3.8	11
16	Randomized pilot study and qualitative evaluation of a clinical decision support system for brain tumour diagnosis based on SV 1H MRS: Evaluation as an additional information procedure for novice radiologists. Computers in Biology and Medicine, 2014, 45, 26-33.	3.9	10
17	Smartphone Sensors for Monitoring Cancer-Related Quality of Life: App Design, EORTC QLQ-C30 Mapping and Feasibility Study in Healthy Subjects. International Journal of Environmental Research and Public Health, 2019, 16, 461.	1.2	10
18	Feature Extraction and Similarity of Movement Detection during Sleep, Based on Higher Order Spectra and Entropy of the Actigraphy Signal: Results of the Hispanic Community Health Study/Study of Latinos. Sensors, 2018, 18, 4310.	2.1	9

#	Article	IF	Citations
19	A generic and extensible automatic classification framework applied to brain tumour diagnosis in HealthAgents. Knowledge Engineering Review, 2011, 26, 283-301.	2.1	8
20	Knowledge-Based Personal Health System to Empower Outpatients of Diabetes Mellitus by Means of P4 Medicine. Methods in Molecular Biology, 2015, 1246, 237-257.	0.4	8
21	Construction of quality-assured infant feeding process of care data repositories: Construction of the perinatal repository (Part 2). Computers in Biology and Medicine, 2016, 71, 214-222.	3.9	7
22	Subgrouping Factors Influencing Migraine Intensity in Women: A Semiâ€automatic Methodology Based on Machine Learning and Information Geometry. Pain Practice, 2020, 20, 297-309.	0.9	7
23	Conceptual Graphs Based Information Retrieval in HealthAgents. Proceedings of the IEEE Symposium on Computer-Based Medical Systems, 2007, , .	0.0	6
24	Construction of quality-assured infant feeding process of care data repositories: definition and design (Part 1). Computers in Biology and Medicine, 2015, 67, 95-103.	3.9	6
25	Temporal variability analysis reveals biases in electronic health records due to hospital process reengineering interventions over seven years. PLoS ONE, 2019, 14, e0220369.	1.1	6
26	Guest editorial: Special issue in biomedical data quality assessment methods. Computer Methods and Programs in Biomedicine, 2019, 181, 104954.	2.6	5
27	Multi-PheWAS intersection approach to identify sex differences across comorbidities in 59 140 pediatric patients with autism spectrum disorder. Journal of the American Medical Informatics Association: JAMIA, 2022, 29, 230-238.	2.2	5
28	Subphenotyping of Mexican Patients With COVID-19 at Preadmission To Anticipate Severity Stratification: Age-Sex Unbiased Meta-Clustering Technique. JMIR Public Health and Surveillance, 2022, 8, e30032.	1.2	5
29	The HealthAgents ontology: knowledge representation in a distributed decision support system for brain tumours. Knowledge Engineering Review, 2011, 26, 303-328.	2.1	4
30	Comparative study of probability distribution distances to define a metric for the stability of multi-source biomedical research data. , 2013, 2013, 3226-9.		4
31	Robust estimation of infant feeding indicators by data quality assessment of longitudinal electronic health records from birth up to 18 months of life. Computer Methods and Programs in Biomedicine, 2021, 207, 106147.	2.6	4
32	Predicting morbidity by local similarities in multi-scale patient trajectories. Journal of Biomedical Informatics, 2021, 120, 103837.	2.5	4
33	Multi-parametric MR Imaging Biomarkers Associated to Clinical Outcomes in Gliomas: A Systematic Review. Current Medical Imaging, 2019, 15, 933-947.	0.4	4
34	A Standardized and Data Quality Assessed Maternal-Child Care Integrated Data Repository for Research and Monitoring of Best Practices: A Pilot Project in Spain. Studies in Health Technology and Informatics, 2017, 235, 539-543.	0.2	4
35	Robustness and Findings of a Web-Based System for Depression Assessment in a University Work Context. International Journal of Environmental Research and Public Health, 2019, 16, 644.	1.2	3
36	Genomics and Metabolomics Research for Brain Tumour Diagnosis Based on Machine Learning. Lecture Notes in Computer Science, 2007, , 1012-1019.	1.0	3

#	Article	IF	Citations
37	On the Implementation of HealthAgents: Agent-Based Brain Tumour Diagnosis. , 2007, , 5-24.		3
38	A Security Model and its Application to a Distributed Decision Support System for Healthcare. , 2008, , .		2
39	Measuring Variability in Acute Myocardial Infarction Coding Using a Statistical Process Control and Probabilistic Temporal Data Quality Control Approaches. Advances in Intelligent Systems and Computing, 2021, , 193-202.	0.5	1
40	Discovering Data Source Stability Patterns in Biomedical Repositories Based on Simplicial Projections from Probability Distribution Distances. , 2017, , .		0