

Riccardo Miotto

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

5,884
citations

279798

23
h-index

315739

38
g-index

55
all docs

55
docs citations

55
times ranked

9885
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep learning for healthcare: review, opportunities and challenges. Briefings in Bioinformatics, 2018, 19, 1236-1246.	6.5	1,459
2	Deep Patient: An Unsupervised Representation to Predict the Future of Patients from the Electronic Health Records. Scientific Reports, 2016, 6, 26094.	3.3	1,036
3	Artificial Intelligence in Cardiology. Journal of the American College of Cardiology, 2018, 71, 2668-2679.	2.8	690
4	AKI in Hospitalized Patients with COVID-19. Journal of the American Society of Nephrology: JASN, 2021, 32, 151-160.	6.1	500
5	Natural Language Processing of Clinical Notes on Chronic Diseases: Systematic Review. JMIR Medical Informatics, 2019, 7, e12239.	2.6	297
6	A functional genomics predictive network model identifies regulators of inflammatory bowel disease. Nature Genetics, 2017, 49, 1437-1449.	21.4	199
7	Coronavirus 2019 and People Living With Human Immunodeficiency Virus: Outcomes for Hospitalized Patients in New York City. Clinical Infectious Diseases, 2020, 71, 2933-2938.	5.8	189
8	Machine Learning to Predict Mortality and Critical Events in a Cohort of Patients With COVID-19 in New York City: Model Development and Validation. Journal of Medical Internet Research, 2020, 22, e24018.	4.3	174
9	Translational bioinformatics in the era of real-time biomedical, health care and wellness data streams. Briefings in Bioinformatics, 2017, 18, 105-124.	6.5	146
10	Deep learning and the electrocardiogram: review of the current state-of-the-art. Europace, 2021, 23, 1179-1191.	1.7	111
11	Federated Learning of Electronic Health Records to Improve Mortality Prediction in Hospitalized Patients With COVID-19: Machine Learning Approach. JMIR Medical Informatics, 2021, 9, e24207.	2.6	108
12	PREDICTIVE MODELING OF HOSPITAL READMISSION RATES USING ELECTRONIC MEDICAL RECORD-WIDE MACHINE LEARNING: A CASE-STUDY USING MOUNT SINAI HEART FAILURE COHORT. , 2017, 22, 276-287.		91
13	Use of Physiological Data From a Wearable Device to Identify SARS-CoV-2 Infection and Symptoms and Predict COVID-19 Diagnosis: Observational Study. Journal of Medical Internet Research, 2021, 23, e26107.	4.3	91
14	Deep representation learning of electronic health records to unlock patient stratification at scale. Npj Digital Medicine, 2020, 3, 96.	10.9	90
15	Systematic analyses of drugs and disease indications in RepurposeDB reveal pharmacological, biological and epidemiological factors influencing drug repositioning. Briefings in Bioinformatics, 2018, 19, 656-678.	6.5	81
16	Case-based reasoning using electronic health records efficiently identifies eligible patients for clinical trials. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, e141-e150.	4.4	70
17	Retrospective cohort study of clinical characteristics of 2199 hospitalised patients with COVID-19 in New York City. BMJ Open, 2020, 10, e040736.	1.9	50
18	A human-computer collaborative approach to identifying common data elements in clinical trial eligibility criteria. Journal of Biomedical Informatics, 2013, 46, 33-39.	4.3	38

#	ARTICLE	IF	CITATIONS
19	Reflecting health: smart mirrors for personalized medicine. <i>Npj Digital Medicine</i> , 2018, 1, 62.	10.9	36
20	Uncovering exposures responsible for birth season “ disease effects: a global study. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2018, 25, 275-288.	4.4	33
21	A Generative Context Model for Semantic Music Annotation and Retrieval. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2012, 20, 1096-1108.	3.2	32
22	Unsupervised mining of frequent tags for clinical eligibility text indexing. <i>Journal of Biomedical Informatics</i> , 2013, 46, 1145-1151.	4.3	29
23	Automated disease cohort selection using word embeddings from Electronic Health Records. , 2018, , .		29
24	PatientExploreR: an extensible application for dynamic visualization of patient clinical history from electronic health records in the OMOP common data model. <i>Bioinformatics</i> , 2019, 35, 4515-4518.	4.1	28
25	Deep Learning to Predict Patient Future Diseases from the Electronic Health Records. <i>Lecture Notes in Computer Science</i> , 2016, , 768-774.	1.3	28
26	eTACTS: A method for dynamically filtering clinical trial search results. <i>Journal of Biomedical Informatics</i> , 2013, 46, 1060-1067.	4.3	23
27	Contrastive learning improves critical event prediction in COVID-19 patients. <i>Patterns</i> , 2021, 2, 100389.	5.9	21
28	Precision Medicine for Relapsed Multiple Myeloma on the Basis of an Integrative Multiomics Approach. <i>JCO Precision Oncology</i> , 2018, 2018, 1-17.	3.0	20
29	Phe2vec: Automated disease phenotyping based on unsupervised embeddings from electronic health records. <i>Patterns</i> , 2021, 2, 100337.	5.9	19
30	Identifying Acute Low Back Pain Episodes in Primary Care Practice From Clinical Notes: Observational Study. <i>JMIR Medical Informatics</i> , 2020, 8, e16878.	2.6	19
31	A Probabilistic Model to Combine Tags and Acoustic Similarity for Music Retrieval. <i>ACM Transactions on Information Systems</i> , 2012, 30, 1-29.	4.9	17
32	Automated disease cohort selection using word embeddings from Electronic Health Records. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2018, 23, 145-156.	0.7	17
33	Replicating Cardiovascular Condition-Birth Month Associations. <i>Scientific Reports</i> , 2016, 6, 33166.	3.3	16
34	Trends in anesthesiology research: a machine learning approach to theme discovery and summarization. <i>JAMIA Open</i> , 2018, 1, 283-293.	2.0	12
35	Machine Learning in Cardiology“Ensuring Clinical Impact Lives Up to the Hype. <i>Journal of Cardiovascular Pharmacology and Therapeutics</i> , 2020, 25, 379-390.	2.0	11
36	Sleep in the Natural Environment: A Pilot Study. <i>Sensors</i> , 2020, 20, 1378.	3.8	11

#	ARTICLE	IF	CITATIONS
37	Relational Learning Improves Prediction of Mortality in COVID-19 in the Intensive Care Unit. IEEE Transactions on Big Data, 2021, 7, 38-44.	6.1	10
38	Automatic Identification of Music Works Through Audio Matching. Lecture Notes in Computer Science, 2007, , 124-135.	1.3	8
39	A Digital Library Effort to Support the Building of Grammatical Resources for Italian Dialects. Communications in Computer and Information Science, 2010, , 89-100.	0.5	8
40	Statistical Music Modeling Aimed at Identification and Alignment. Studies in Computational Intelligence, 2010, , 187-212.	0.9	6
41	The Evolution of Mining Electronic Health Records in the Era of Deep Learning. , 2022, , 55-92.		2
42	Unsupervised Learning to Subphenotype Heart Failure Patients from Electronic Health Records. Lecture Notes in Computer Science, 2021, , 219-228.	1.3	1
43	Content-Based Cover Song Identification in Music Digital Libraries. Communications in Computer and Information Science, 2010, , 195-204.	0.5	1
44	Deep learning for biomedical applications. , 2021, , 71-94.		0
45	ASIt: A Grammatical Survey of Italian Dialects and Cimbrian: Fieldwork, Data Management, and Linguistic Analysis. Communications in Computer and Information Science, 2011, , 100-103.	0.5	0
46	Heterogeneous Graph Embeddings of Electronic Health Records Improve Critical Care Disease Predictions. Lecture Notes in Computer Science, 2020, , 14-25.	1.3	0